



ENTECH
ENGINEERING, INC.

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February 3, 2022

Tech Contractors
3575 Kenyon Street, Suite 200
San Diego, CA 92110

Attn: Raul Guzman

Re: Cement Stabilized Subgrade Results - Laboratory Testing
Rolling Hills at Meridian Ranch Filing No. 2, Phase 2
El Paso County, Colorado

Dear Mr. Guzman:

As requested, personnel of Entech Engineering, Inc. have performed strength testing on soil/cement composite samples for the above referenced project. Testing was performed on soil samples prepared with 2% and 4% Portland Cement Type 1/2, from Martin Marietta, near Pueblo, Colorado.

A compression strength of 160 psi is recommended for cement stabilized subgrade. The 5-day average strength value of the 2% mix was 222 psi. The 5-day average strength value of the 4% mix was 304 psi.

A 2% mix is recommended based on the laboratory test results. A summary of the testing results is attached.

Pending the results of the field samples strength testing, microfracturing of the stabilized subgrade may be required. Soil strengths in excess of 200 psi require microfracturing.

We trust this has provided you with the information you required. If you have any questions or need additional information, please do not hesitate to contact us.

Respectfully Submitted,

ENTECH ENGINEERING, INC.

Daniel P. Stegman

DPS/bs

Encl.

Entech Job No. 213333
AAprojects/2021/213333 cssr - lab



Reviewed by:

Mark H. Hauschild, P.E.
Senior Engineer

SUMMARY OF CTS TEST RESULTS
LAB TESTING

CLIENT TECH CONTRACTORS
 PROJECT ROLLING HILLS RANCH, F-2
 FIELD SAMPLE ID TB-2 @ 0-3'
 SOIL ADDITIVE TYPE I/II CEMENT

JOB NO 213333
 DATE 1/20/22
 BY BL

ADDITIVE %	WATER %	DENSITY (dry)	AGE (days)	STRENGTH (psi)
2	7.7	122.9	6	249
2	7.7	121.4	6	203
2	7.7	121.2	6	213
AVERAGE:				222
4	7.7	123.1	6	346
4	7.7	122.3	6	277
4	7.7	123.2	6	288
AVERAGE:				304

CURING METHOD

100° HUMIDIFIED OVEN