

Architecture
Structural
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Materials Testing
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ROCKY MOUNTAIN GROUP
EMPLOYEE OWNED

Job No. 178681

June 4, 2021

Landhuis Company
212 N. Wahsatch Ave. Ste 301
Colorado Springs, CO

Re: Cement Treated Subgrade Test Results (Set 15)
Creekside South at Lorson Ranch
El Paso County, Colorado

Dear Landhuis Company:

RMG – Rocky Mountain Group sampled cement treated subgrade (CTS) soils during placement and compaction during construction of the streets in the above referenced subdivision. Our sampling and testing consisted of preparation of four (4) CTS “pucks” for each sample location. Pucks were prepared by compacting sampled CTS materials in the Standard Proctor mold utilizing Standard Proctor compactive effort (ASTM D-698). The pucks were extruded from the mold and moist-cured in the laboratory seven (7) days prior to testing for compressive strength.

The compressive strength for each puck was determined at seven (7) days after placement to verify that the minimum required compressive strength of 125 psi was obtained prior to placement of hot-mix bituminous pavements. The results of our testing are presented in the table below:

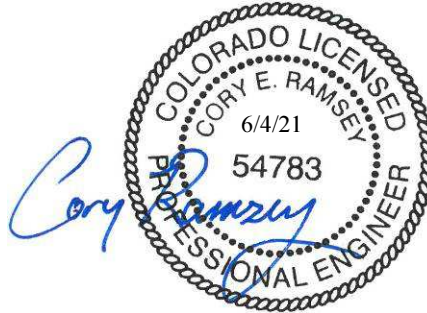
Sample Location	Date Prepared	Puck #	7-Day Compressive Strength	
			Tested Strength, psi	Average 7-Day Compressive Strength, psi
Luneth Dr., STA 30+00	5-27-21	15A	60	90
		15B	100	
		15C	110	
		15D	70	

Based upon our test results, the cement treated subgrade that was placed and compacted at the locations tested on 5-27-21 failed to meet the minimum design strength requirements as recommended in RMG’s Pavement Design Report, Creekside South at Lorson Ranch, El Paso County, Colorado, Job No. 178681, dated April 20, 2021.

I hope this provides the information you have requested. Should you have questions, please feel free to contact our office.

Cordially,

RMG – Rocky Mountain Group



Cory Ramsey, P.E.
Geotechnical Project Engineer