

Architecture  
Structural  
Geotechnical



Materials Testing  
Forensic  
Civil/Planning

**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 16)  
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:

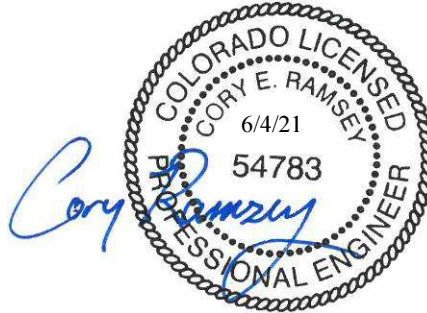
Sample Location	Date Prepared	Puck #	7-Day Compressive Strength	
			Tested Strength, psi	Average 7-Day Compressive Strength, psi
Luneth Dr., STA 36+00	5-27-21	16A	60	60
		16B	60	
		16C	50	
		16D	60	

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