SF2015

April 15, 2022

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

APPROVED
Engineering Department
04/21/2022 9:32:52 AM
dsdnijkamp
EPC Planning & Community
Development Department

SR Land, LLC
20 Boulder Crescent, 2nd Floor
Colorado Springs, CO 80903

Attn: Chaz Collins

Re: Laboratory Test Results – Asphalt Millings and Recycled Concrete
Sterling Ranch Stockpiles
Sterling Ranch – Filing No. 2
Colorado Concrete Crushing
El Paso County, Colorado

*source pile shall be documented by the EPC inspector and shall not be added to during the season. New piles must be tested, approved, and piles documented by EPC inspector prior to use in EPC.

Dear Mr. Collins:

As requested, Entech Engineering, Inc. have performed laboratory testing on representative samples of asphalt millings and recycled concrete obtained from the stockpiles at Colorado Crushing at Sterling Ranch. The sampling of the stockpiles was performed by personnel of Entech Engineering, Inc. This letter presents the results of the laboratory testing.

The stockpiles are located southwest of the future Dines Boulevard and Sterling Ranch Road Intersection. This is the only source location for the asphalt millings and reclaimed concrete on the subject site. The piles appear to be of uniform material based on visual observations during sampling.

Sieve analyses and Atterberg Limits testing were performed on the samples. Testing was performed to determine the support characteristic of the asphalt millings and the crushed concrete for use in the Filing No. 2 roadways. In addition, LA Abrasion (ASTM C-131) testing was performed on the samples

The millings and recycled concrete are non-plastic and meet the gradation for Class 5 and 6 basecourse.

The results of the laboratory testing are summarized below and are presented in Figures 1 through 4.

Soil Properties	Recycled Concrete	Asphalt Millings
Liquid Limit	NV	NV
Plastic Iindex	NP	NP
%200	7.9	4.2%
LA Abrasion Loss (%)	44	31

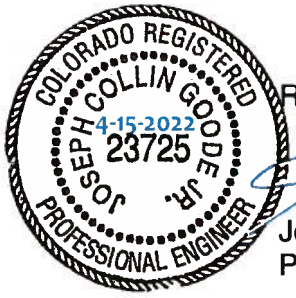
SR Land, LLC
Laboratory Test Results – Asphalt Millings and Recycled Concrete
Sterling Ranch Stockpiles
Sterling Ranch – Filing No. 2
El Paso County, Colorado

We trust that this report contains the information you require. If you have questions or need additional information, please contact us.

Respectfully Submitted,

ENTECH ENGINEERING, INC.

Daniel P. Stegman

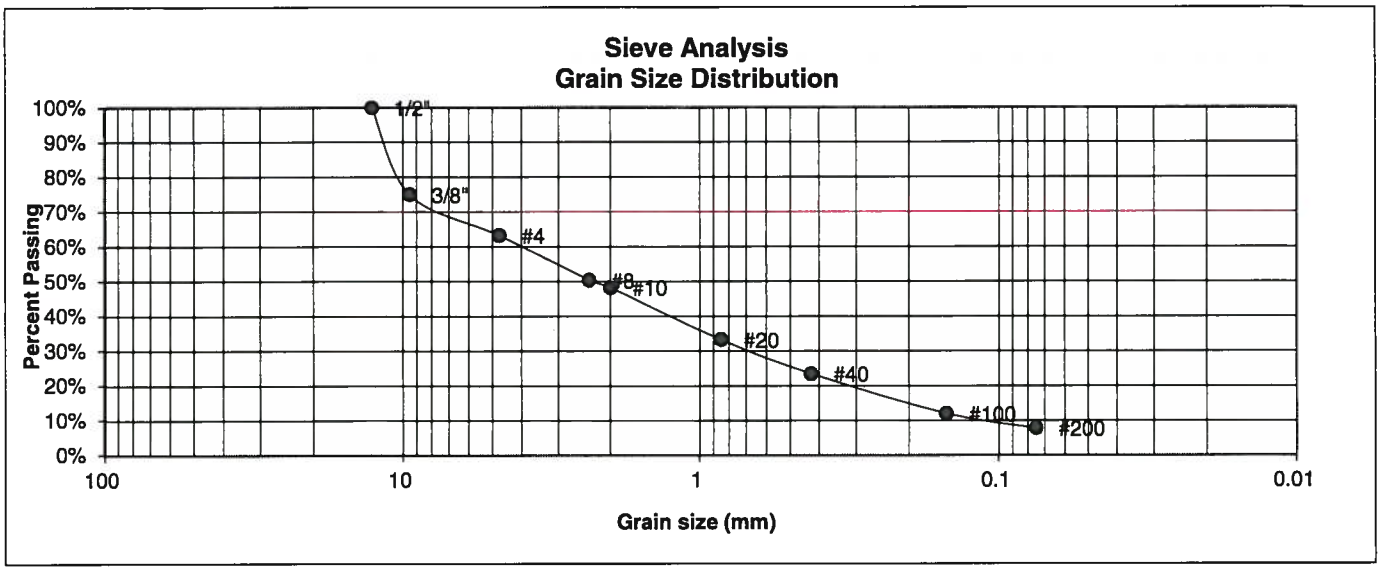


Reviewed By:

Joseph C. Goode, Jr., P.E.
President

DPS/mhh
Entech Job No. 220394
AAprojects/2022/220394Recconc

SOIL TYPE #	CRUSHED CONCRETE	UNIFIED CLASSIFICATION	SM-SW	TEST BY	BL
CLIENT	SR LAND, LLC	AASHTO CLASSIFICATION		JOB NO.	220394
PROJECT	STERLING RANCH, FILING 2			DATE	4/15/2022



U.S. Sieve #	SAMPLE Percent Finer	CLASS 2 *Base Aggregates*	CLASS 5	CLASS 6
3"		95-100		
1 1/2"			100	
1"			95-100	
3/4"				100
1/2"	100.0%			
3/8"	75.0%			
4	63.3%		30-70	30-65
8	50.4%			25-55
10	48.3%			
20	33.3%			
40	23.5%			
100	12.0%			
200	7.9%	3-15	3-15	3-12

Atterberg Limits				
Plastic Limit	NP			
Liquid Limit	NV	35 max	30 max	30 max
Plastic Index	NP	6 max	6 max	6 max

FHA Swell
Moisture at start
Moisture at finish
Moisture increase
Initial dry density (pcf)
Swell (psf)

ENTECH ENGINEERING, INC.
505 ELKTON DRIVE
COLORADO SPRINGS, COLORADO 80907

LABORATORY TEST RESULTS

DRAWN:	DATE:	CHECKED:	DATE:
		PS	4/15/22

JOB NO.: 220394
FIG NO.: 1

KLEINFELDER
Bright People. Right Solutions.

Laboratory Test Report

Client:	**Entech Engineering, Inc.**	Report No.:	**22-DEN-00237 Rev. 0**	Issued:	**4/13/2022**
Project:	**20220641.001A**				
	08-000L - Entech Lab	Sampled by:	**Entech Lab**	Date:	**4/1/2022**
		Submitted by:	**Entech Lab**	Date:	**4/1/2022**

Aggregate Test Report: Los Angeles Abrasion

Tested on **4/6/2022** by **MJ Landrus**

Material Description: **Light Gray, Reconstituted Concrete**

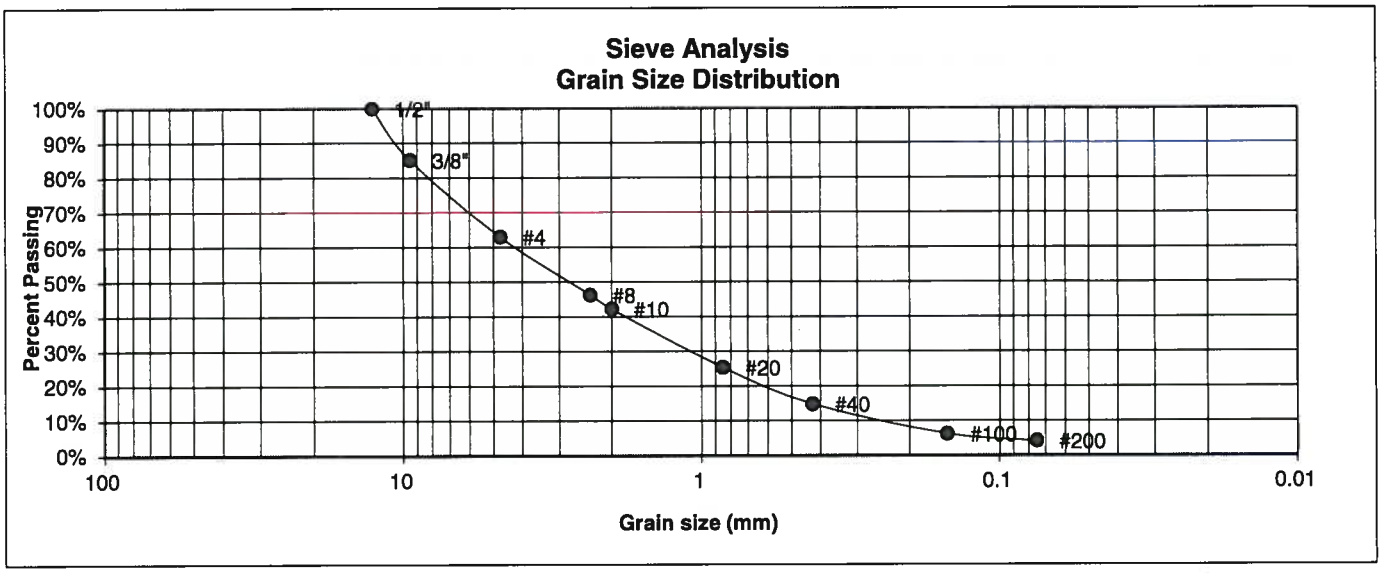
Test Method: **ASTM C131 Grading B**

Loss after 500 revolutions: **44**

Remarks:

Reviewed on 4/13/2022 by Tim Ryan,
Project Manager

SOIL TYPE #	RECYCLED ASPHALT	UNIFIED CLASSIFICATION	SW	TEST BY	BL
CLIENT	SR LAND, LLC	AASHTO CLASSIFICATION		JOB NO.	220394
PROJECT	STERLING RANCH, FILING 2			DATE	4/15/2022



U.S. Sieve #	SAMPLE Percent Finer	CLASS 2 *Base Aggregates*	CLASS 5	CLASS 6
3"		95-100		
1 1/2"			100	
1"			95-100	
3/4"				100
1/2"	100.0%			
3/8"	85.1%			
4	63.0%		30-70	30-65
8	46.3%			25-55
10	42.2%			
20	25.4%			
40	14.8%			
100	6.2%			
200	4.2%	3-15	3-15	3-12

Atterberg Limits				
Plastic Limit	NP			
Liquid Limit	NV	35 max	30 max	30 max
Plastic Index	NP	6 max	6 max	6 max

FHA Swell
Moisture at start
Moisture at finish
Moisture increase
Initial dry density (pcf)
Swell (psf)

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505 ELKTON DRIVE
COLORADO SPRINGS, COLORADO 80907

LABORATORY TEST RESULTS

DRAWN:	DATE:	CHECKED:	DATE:
		DS	4/15/22

JOB NO.: 220394
FIG NO.: 3

KLEINFELDER
Bright People. Right Solutions.

Laboratory Test Report

Client:	**Entech Engineering, Inc.**	Report No.:	**22-DEN-00237 Rev. 0**	Issued:	**4/13/2022**
Project:	**20220641.001A**				
	08-000L - Entech Lab	Sampled by:	**Entech Lab**	Date:	**4/1/2022**
		Submitted by:	**Entech Lab**	Date:	**4/1/2022**

Aggregate Test Report: Los Angeles Abrasion

Tested on **4/6/2022** by **MJ Landrus**

Material Description: **Dark Brown/Black, reconstituted Asphalt**

Test Method: **ASTM C131 Grading B**

Loss after 500 revolutions: **31**

Remarks:

Reviewed on 4/13/2022 by Tim Ryan,
Project Manager

Timothy Ryan