ENTECH
ENGINEERING, INC.

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

March 5, 2020

D. Stefano-Building & Restoration, Inc.
520 West 21st Street, G-2 #710
Norfolk, Virginia 23517

Please show at least two potential septic locations for the lots and include the information that Cherokee has provided as to why its not feasible to hook in to central wastewater services.

Provide document from Cherokee stating that they either will not allow tyeing in to their services or provide documentation allowing connection the their services.

Attn: David Stefano

Re: OWTS – Site Evaluation
7765 Electronic Drive
El Paso County, Colorado

Dear Mr. Stefano:

As requested, personnel of Entech Engineering, Inc. observed two test pits at the address above. The test pits were excavated in the area of the proposed on-site wastewater treatment system (OWTS) absorption field. This letter presents the results of our testing.

Test pits Nos. 1 & 2 were excavated on February 12, 2020, to approximately 8 feet deep. Soils encountered in the test pits consisted of sandy clay. The Test Pit Logs and Laboratory Test Results are shown in Figures 2 and 3. Bedrock was not encountered in the test pits. Signs of seasonally occurring groundwater were not observed in the test pits.

Visual and tactile evaluation of the soils was performed. The limiting layer encountered in the test pits is the sandy clay, which classifies as USDA Soil Type 4. The corresponding LTAR Value of 0.20 gallons per day per square foot is recommended for Treatment Level 1. An engineered system will be required. Installation of the system should be performed in accordance with El Paso County Health Department regulations and requirements.

We trust that 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.

Robert P. Jaquet, E.I.

Reviewed by:

COLORADO LICENSED
Jeffery Alan Murray
54167
3/5/20
PROFESSIONAL ENGINEER

Jeffery A. Murray, P.E.

JM/rj

Entech Job No. 200127
AAprojects/2020/200127 owts-site evaluation

TP- APPROXIMATE TEST PIT LOCATION AND NUMBER

- **TP-1 38°52'22.21"N, 104°41'5.01"W**
- **TP-2 38°52'22.08"N, 104°41'5.31"W**

ENTECH ENGINEERING, INC.
305 ELKTON DRIVE
COLORADO SPRINGS, CO. 80907 (719) 531-5599

TEST PIT LOCATION MAP
7765 ELECTRONIC DRIVE
EL PASO COUNTY, COLORADO
FOR: DAVID STEFANO

DRAWN:	DATE:	CHECKED:	DATE:
RPJ	03/04/20	RPJ	3/4/20

JOB NO.: 200127

FIG NO.: 1

TEST PIT NO. 1
DATE EXCAVATED 2/12/2020
Job # 200127

REMARKS	Depth (ft)	Symbol	Samples	Soil Structure Shape	Soil Structure Grade	USDA Soil Type
topsoil sandy loam, brown sandy clay, fine to medium grained, brown	1 2 3 4 5 6 7 8 9 10			gr	s	4

TEST PIT NO. 2
DATE EXCAVATED 2/12/2020
CLIENT D. Stefano-Building & Restoration, Inc.
LOCATION 7765 ELECTRONIC DRIVE

REMARKS	Depth (ft)	Symbol	Samples	Soil Structure Shape	Soil Structure Grade	USDA Soil Type
topsoil sandy loam, brown sandy clay, fine to medium grained, brown	1 2 3 4 5 6 7 8 9 10			gr	s	4

Soil Structure Shape
granular - gr
platy - pl
blocky - bl
prismatic - pr
single grain - sg
massive - ma

Soil Structure Grade
weak - w
moderate - m
strong - s
loose - l

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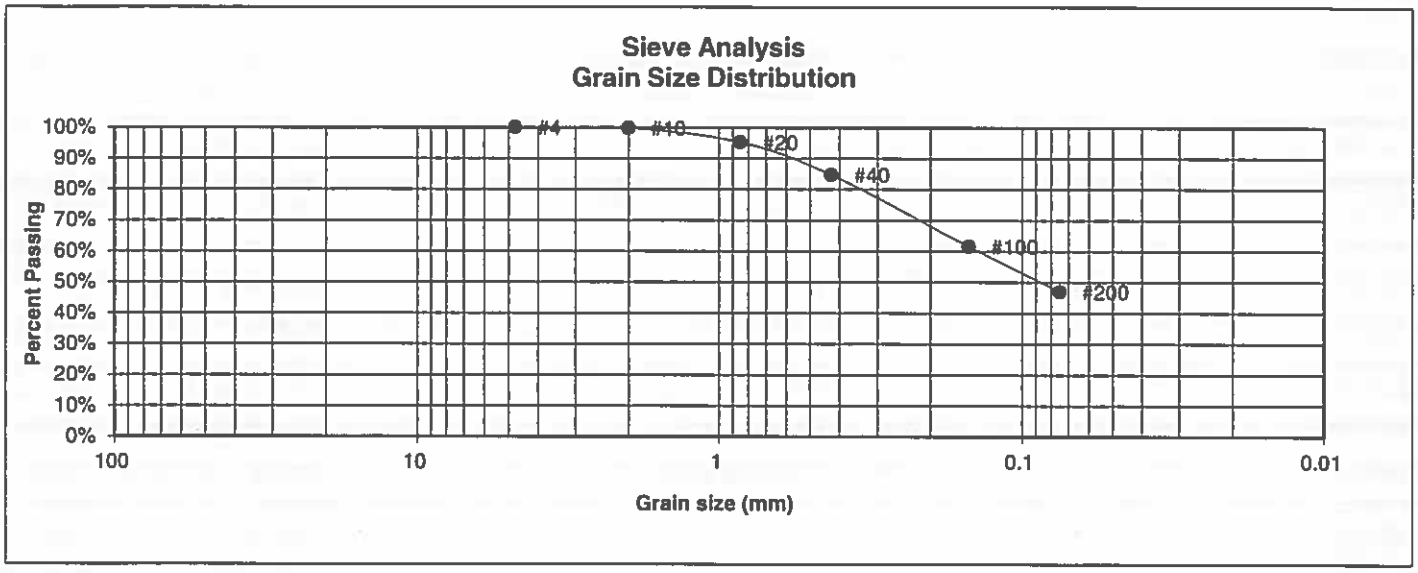
TEST PIT LOG

DRAWN:	DATE:	CHECKED:	DATE:
		RPF	3/3/20

JOB NO.: 200127
FIG NO.: 2

UNIFIED CLASSIFICATION	SC	CLIENT	D. STEFANO
SOIL TYPE #	1	PROJECT	7765 ELECTRONIC DRIVE
TEST BORING #	TP-1	JOB NO.	200127
DEPTH (FT)	4-6	TEST BY	BL



U.S. Sieve #	Percent Finer
3"	
1 1/2"	
3/4"	
1/2"	
3/8"	
4	100.0%
10	99.8%
20	95.3%
40	84.7%
100	61.6%
200	47.0%

Atterberg Limits
Plastic Limit
Liquid Limit
Plastic Index

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

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LABORATORY TEST RESULTS

DRAWN:	DATE:	CHECKED:	DATE:
		RH	3/5/20

JOB NO.: 200127

FIG NO.: 3