

Test Pit Log

Date of Test Pits: 7/26/2018

Date of Report: 7/26/2018

Persons on-site: TCE: Amanda Raab, Ryan Ruggiero **State of Vermont:** Brian Tremback

Client: Bruce Barry 18-128

Excavator: Handholes

Site Conditions: 80°F, Overcast, Rainy

TEST PIT 1

0-5" TOPSOIL, DARK BROWN VERY FINE SANDY LOAM, FRIABLE, FEW ROOTS, NO PEBBLES, MOIST, SUB-ANGULAR BLOCKY

5-17" TAN BROWN FINE SANDY LOAM, EXTRA FIRM, NO ROOTS, SOME PEBBLES AND COBBLES, VERY DRY, SUB-ANGULAR BLOCKY

ESHWT @ 12"

TEST PIT 2

0-8" TOPSOIL, BROWN FINE SANDY LOAM, FRIABLE, FEW ROOTS, NO PEBBLES, MOIST, SUB-ANGULAR BLOCKY

8-24" BROWN FINE SANDY LOAM, EXTRA FIRM, FEW ROOTS, SOME PEBBLES WITH LARGER COBBLES, VERY DRY, SUB-ANGULAR BLOCKY

ESHWT @ 18"

TEST PIT 3

0-3" TOPSOIL, BROWN FINE SANDY LOAM, FRIABLE, FEW ROOTS, NO PEBBLES, MOIST, SUB-ANGULAR BLOCKY

3-12" BROWN FINE SANDY LOAM, EXTRA FIRM, DRY, SUB-ANGULAR BLOCKY, MANY PEBBLES AND COBBLES OVER 9"

ESHWT @ 12"

TEST PIT 4

0-4" TOPSOIL, BROWN FINE SANDY LOAM, SUB-ANGULAR BLOCKY, MOIST, FRIABLE, FEW PEBBLES, ROOTS

4-13" TAN BROWN FINE SANDY LOAM, DRY, SUB-ANGULAR BLOCKY, LARGE TREE ROOT, COBBLES UPTO 7", FIRM, DRY

ESHWT @ 13"

TEST PIT 5

0-4" TOPSOIL, BROWN FINE SANDY LOAM, ROOTS, NO PEBBLES, MOIST, VERY FRIABLE, SUB-ANGULAR BLOCKY

4-11" LIGHT BROWN FINE SANDY LOAM, SOME ROOTS, PEBBLES, EXTRA FIRM, WEAK SUB-ANGULAR BLOCKY, DRY

11-18" LIGHT TAN BROWN FINE SANDY LOAM, VERY DRY, WEAK SUB-ANGULAR BLOCKY, SOME PEBBLES AND COBBLES, EXTRA FIRM

ESHWT @ 12"

TEST PIT O

ABANDONED DUE TO PROXIMITY TO WELL

ESHWT @ 16"



TRANSMITTAL

TO: Trudell Construction Engineers
ATTN: Amanda Raab

DATE: July 24, 2018
KCE #: 18315
PROJECT: Barry TCE #16128

We are sending you the following items:

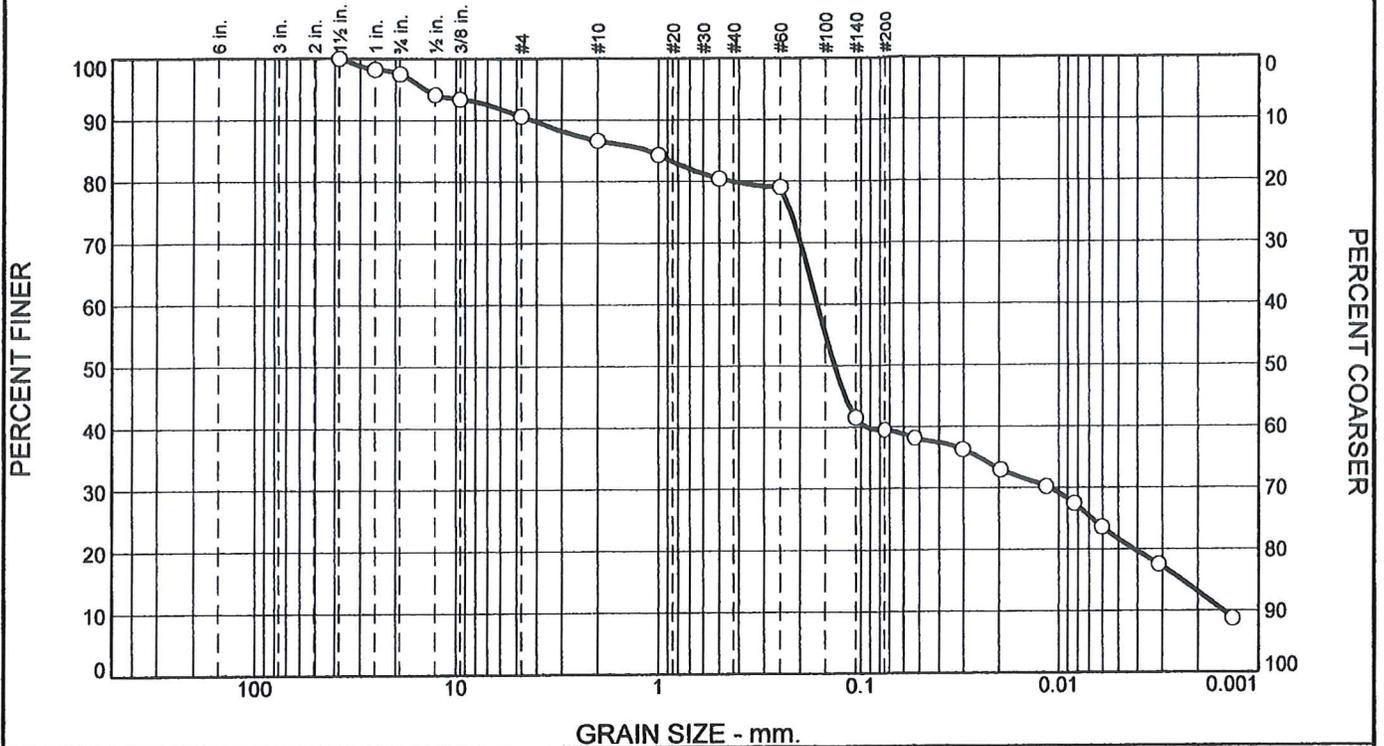
COPIES	DATE	NO. OF PAGES	DESCRIPTION
1	07-23-18	2	Grain Size Distribution Report

Signed: Peter H. Rixford
Testing and Lab Coordinator

PHR/avl

S:\18315\Transmittal 07-24-2018.doc

Grain Size Distribution Report



% Stones	% +3"	% Gravel			% Sand					% Silt		% Clay
		Coarse	Medium	Fine	V. Crs.	Crs.	Med.	Fine	V. Fine	Crs.	Fine	
0	0	3	6	4	3	4	1	38	3	5	20	13

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
1-1/2"	100		
1"	98		
3/4"	97		
1/2"	94		
3/8"	93		
#4	91		
#10	87		
#18	84		
#35	80		
#60	79		
#140	42		
#200	40		
#270	38		
0.0304 mm.	36		
0.0197 mm.	33		
0.0116 mm.	30		
0.0083 mm.	27		
0.0060 mm.	24		
0.0031 mm.	18		
0.0013 mm.	8.8		

* (no specification provided)

Material Description

Fine Sandy Loam

Atterberg Limits (ASTM D 4318)

PL= LL= PI=

Classification

USCS (D 2487)= AASHTO (M 145)=

Coefficients

D₉₀= 4.2619 D₈₅= 1.1331 D₆₀= 0.1638
D₅₀= 0.1346 D₃₀= 0.0112 D₁₅= 0.0024
D₁₀= 0.0015 C_u= 108.90 C_c= 0.51

Remarks

Sampled and delivered by client on 7-19-18.
F.M.=1.30

Date Received: 7-19-18 Date Tested: 7-23-18
Tested By: N. Gaudreau
Checked By: Pete Rixford
Title: Lab and Testing Coordinator

Results reflect soil gradation only and not other specification requirements.

Source of Sample: Site Borings
Sample Number: 1

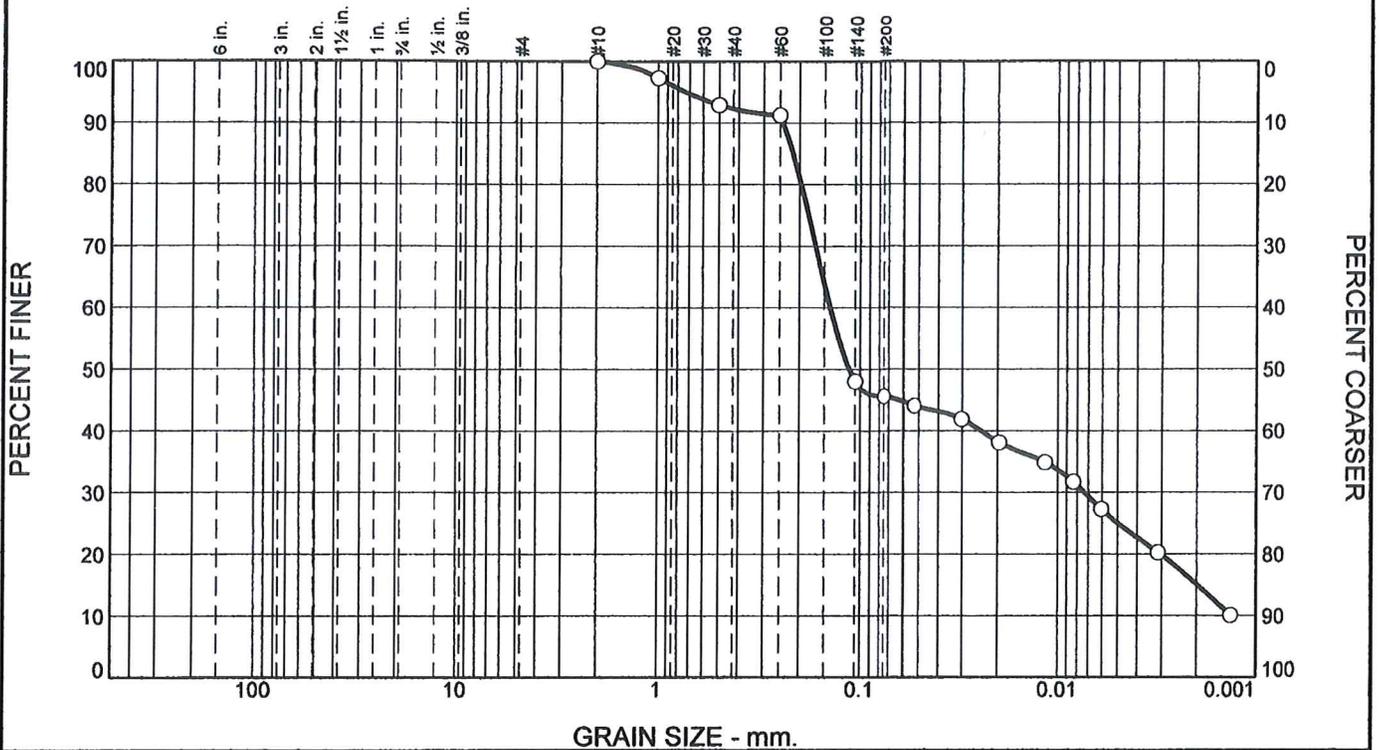
Date Sampled: 7-19-18

**Knight Consulting
Engineers, Inc.
Williston, Vermont**

Client: Trudell Consulting Engineers
Project: Barry
TCE #16128
Project No: 18315

Figure 1-2

Grain Size Distribution Report



% Stones	% +3"	% Gravel			% Sand					% Silt		% Clay
		Coarse	Medium	Fine	V. Crs.	Crs.	Med.	Fine	V. Fine	Crs.	Fine	
0	0	0	0	0	3	4	2	44	3	6	23	15

TEST RESULTS			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
#10	100		
#18	97		
#35	93		
#60	91		
#140	48		
#200	46		
#270	44		
0.0304 mm.	42		
0.0197 mm.	38		
0.0116 mm.	35		
0.0083 mm.	32		
0.0060 mm.	27		
0.0031 mm.	20		
0.0013 mm.	10		

* (no specification provided)

Material Description

Fine Sandy Loam - Sand Portion

Atterberg Limits (ASTM D 4318)

PL= LL= PI=

Classification

USCS (D 2487)= AASHTO (M 145)=

Coefficients

D₉₀= 0.2411 D₈₅= 0.2149 D₆₀= 0.1403
D₅₀= 0.1133 D₃₀= 0.0073 D₁₅= 0.0020
D₁₀= C_u= C_c=

Remarks

Sampled and Delivered by Client on 7-19-18
F.M.=0.52

Date Received: 7-19-18 Date Tested: 7-23-18
Tested By: Nick
Checked By: P.Rixford
Title: Testing and Lab Coordinator

Results reflect soil gradation only and not other specification requirements.

Source of Sample: Site Borings
Sample Number: 2

Date Sampled: 7-19-18

Knight Consulting Engineers, Inc.
Williston, Vermont

Client: Trudell Consulting Engineers
Project: Barry
TCE #16128
Project No: 18315

Figure 2-2