



**Modified DEP Forms 11 & 12 - Soil Suitability Assessment & Percolation Test for On-Site Sewage Disposal**

**Client:** SEERONK, MASSACHUSETTS CITY OF TOWN, SEEKONK, MA

**Site:** 1891 OLNEY STREET, SEEKONK, MA 02881

**Project:** 25 ASYLUM ROAD, WARREN, RI 02885

**Percolation Test Results:**

Depth (ft)	Soil	Soil Texture	Soil Color	Soil Moisture	Soil Structure	Other
0-12	A	SANDY LOAM	10YR 5/6	10-20%	FRAGILE	FRAGILE
12-24	B	LOAMY SAND	10YR 5/6	10-20%	FRAGILE	FRAGILE
24-36	C1	VERY FINE SAND	2.5Y 7/1	25-35%	FRAGILE	FRAGILE
36-48	C2	MEDIUM COARSE SAND	2.5Y 7/1	25-35%	FRAGILE	FRAGILE
48-60	A	SANDY LOAM	10YR 5/6	10-20%	FRAGILE	FRAGILE
60-72	B	VERY FINE SAND	10YR 5/6	10-20%	FRAGILE	FRAGILE
72-84	C1	VERY FINE SAND	10YR 5/6	10-20%	FRAGILE	FRAGILE
84-96	B	LOAMY SAND	10YR 5/6	10-20%	FRAGILE	FRAGILE
96-108	C2	VERY FINE SAND	10YR 5/6	10-20%	FRAGILE	FRAGILE
108-120	A	SANDY LOAM	10YR 5/6	10-20%	FRAGILE	FRAGILE
120-132	B	LOAMY SAND	10YR 5/6	10-20%	FRAGILE	FRAGILE
132-144	C2	MEDIUM COARSE SAND	2.5Y 7/1	25-35%	FRAGILE	FRAGILE
144-156	A	SANDY LOAM	10YR 5/6	10-20%	FRAGILE	FRAGILE
156-168	B	LOAMY SAND	10YR 5/6	10-20%	FRAGILE	FRAGILE
168-180	C2	MEDIUM COARSE SAND	2.5Y 7/1	25-35%	FRAGILE	FRAGILE

**PERCOLATION TEST RESULTS:**

Depth (ft)	Percolation Rate (in/hr)
0-12	1.13
12-24	1.13
24-36	1.13
36-48	1.13
48-60	1.13
60-72	1.13
72-84	1.13
84-96	1.13
96-108	1.13
108-120	1.13
120-132	1.13
132-144	1.13
144-156	1.13
156-168	1.13
168-180	1.13

**ASSESSMENT OF SUITABILITY:**

Soil	Depth (ft)	Suitability
A	0-12	X
B	12-24	X
C1	24-36	X
C2	36-48	X
A	48-60	X
B	60-72	X
C1	72-84	X
B	84-96	X
C2	96-108	X
A	108-120	X
B	120-132	X
C2	132-144	X
A	144-156	X
B	156-168	X
C2	168-180	X

**DESIGN CALCULATIONS:**

AVERAGE DAILY SEWAGE FLOW (GALLONS PER DAY) = 880 GPD

SEPTIC TANK SIZING (GALLONS) = 200% AVERAGE DAILY FLOW = 1760 GPD

DESIGN SOIL TYPE AND PERCOLATION RATE = 1.13 IN/HR

REQUIRED MINIMUM LEACHING AREA = 440 GPD / 0.74 GPD / SF = 595 SF MINIMUM

LEACHING FIELD BED AREA = 10' X 60' = 600 SF

RESERVE AREA = 14' X 43' = 602 SF



**NOTES & SPECIFICATIONS**

THIS PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE BOARD OF HEALTH OF THE TOWN OF SEEKONK, MASSACHUSETTS AND THOSE OF THE TOWN BOARD OF HEALTH.

THE REQUIRED INSPECTION SCHEDULE DURING THE PROCESS OF CONSTRUCTION SHALL BE AS FOLLOWS:

1. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

2. PRIOR TO THE INSTALLATION OF THE SEPTIC TANK AND DISTRIBUTION BOX.

3. PRIOR TO THE INSTALLATION OF THE LEACHING FIELDS.

4. PRIOR TO THE COMPLETION OF THE SYSTEM.

5. PRIOR TO THE OCCUPANCY OF THE HOUSE.

6. PRIOR TO THE COMPLETION OF THE PROJECT.

7. PRIOR TO THE COMPLETION OF THE PROJECT.

8. PRIOR TO THE COMPLETION OF THE PROJECT.

9. PRIOR TO THE COMPLETION OF THE PROJECT.

10. PRIOR TO THE COMPLETION OF THE PROJECT.

**HAY BALE DETAIL**

NOT TO SCALE

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**SEPTIC SYSTEM DESIGN AND NOI PLAN**

**"CALEB ESTATES"**

#15 LOGAN COURT, SEEKONK, MASSACHUSETTS 02885

ASSESSORS MAP 6, LOT 504 (SUBDIVISION LOT 4)

PREPARED FOR: DECASTRO BUILDERS, INC.

25 ASYLUM ROAD, WARREN, RI 02885

DATE: JUNE 27, 2012

SCALE: 1" = 20'

DESIGNED BY: MSF

REVISIONS:

10-080-4

PROFESSIONAL SEAL

PROFESSIONAL ENGINEERS AND LAND SURVEYORS

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