April 22, 1974

To: Mr. Herbert Doten
128 State Street
Augusta, Maine

From: Darryl N. Brown
Consulting Soil Scientist
P.O. Box # 164
Livermore Falls, Maine 04254

Re: On- site soil investigations on Lots # 1,2,3,5,6,7,8, + 10 of Wade Farm Subdivision, Augusta, Maine

Purpose of Investigations: Soil Suitability for on-site subsurface sewage disposal.

Method of investigation: Backhoe

Date of Investigation: April 16, 1974

Soil types identified: Adams loamy sand
Buxton silt loam
Elmwood fine sandy loam
Hartland very fine sandy loam
Hinckley gravelly sandy loam
Madeland

Base map: Plot plan of proposed developement

Reference Points: Wade Road and all lot corners.

A high intensity soils map with locations of all test pits and soils boundaries is included as a supplement to this report.

a consideration of individual lots follows:

Mr Bean

Lot #	Soil type	slope	Most limiting factor for subsurface sewage disposal	systems permitted
1(a)	Hartland	3-8%	Semi-pervious sub-strata	beds, mounds, or special No fill required at this site
1(b)	Hartland	8-10%	clay at 36"	beds: size 50' X 50' 30" of compacted fine sandy lo fill required. mound: size 120' X 40'
2(a)	Adams	15%	none	beds, mounds or special. No fill required. Bed recomme
2(b)	Adams	2-4%	none	Beds, mounds, or special No fill required. Bed recomme
3(a)	Adams	10-12%	none	Beds, mounds, or special No fill required. Bed recomme
3(b)	Elmwood	3-4%	Seasonal high water table at 22". clay at 26"	Mound: size 125' X 44'
5	Hinckley (surface removed)	3-4%	none	Beds, mounds, or special
6	Elmwood	8-14%	Seasonal high water table at 17". Clay at 18".	Mound: 125' X 44'
7	Buxton	4-8%	Seasonal high water table at 16". Clay at 24".	Mound: 125' X 44'
8	Madeland	2-3%	Impervious fill material	Non-discharge
10(a)	Hartland (surface removed)	3-4%	Impervious layer at surface	Non-discharge
10(b)	Elmwood (surface removed)	3-5%	Seasonal high water table at 17". Clay at 17"	Mound: 125' X 44'

Recommendations:

Because of the size of mound systems required on lots # 6 and 7 and the unsuitability of lot # 8, it is recommended that those lots be redesigned by combining lots # 7,8, + 9 into two lots with equal road frontage. In that manner mound sytems could be effectively designed for those two lots.

I certify that the soil types were identified in accordance with standards developed in the National Cooperative Soil Survey.

Darryl N. Brown

Darryl N. Brown

February 3, 1975

Herbert Doten
Consulting Engineer
128 State Street
Augusta, Maine

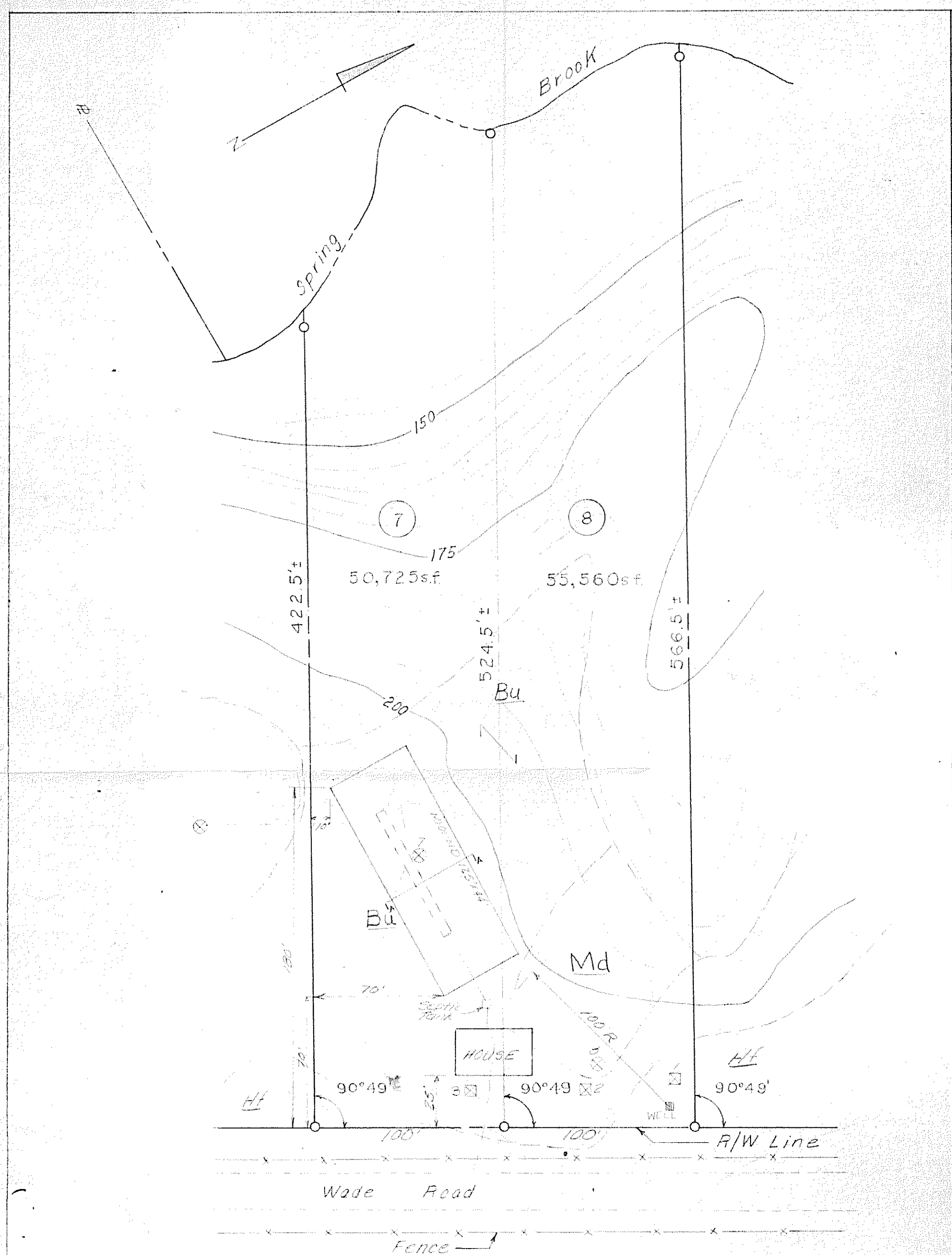
Re: Additional soils information-Wade Road, Augusta, Maine.

Five backhoe test pits were used to obtain the following data;

Test pit #1	0-12"	Fine silty sand (fill).
	12"- 24"	Old topsoil.
	24"-96"	Grey brown silty fine sand. Mottling below 36".
Test pit #2	0-8"	Topsoil.
	8"-24"	Brown fine sandy loam, mottled below 17".
	24"-60"	Mottled clayey silt.
Test pit #3	0-6"	Topsoil.
	6"-18"	Silt loam.
	18"-72"	Weathered impervious clayey silt.
Test pit #4	0-12"	Gravel fill.
	12"-24"	Silt loam fill.
	24"-30"	Old topsoil.
	30"-48"	Mottled silty fine sand.
Test pit #5	0-16"	Brown medium sand.
	16"-48"	Brown weathered nearly impervious fine sand and silt layers.

Test pit #1 would require a 20'x45' bed system with 18" of fill. However, there does not appear to be enough soil of this type on which to place the system. The remaining locations would require mounds.

Wm W. Rideout



LEGEND

Soils Type Boundary
Backhoe Test Pits
Additional Test Pits
Bu — Buxton Silt Loam
Md — Madeland
Hf — Hartland very fine sandy loam

HERBERT R. DOTEN
CONSULTING ENGINEER
128 STATE STREET AUGUSTA, MAINE

WADE FARM SUBDIVISION

SITE PLAN LOTS 7&8
WADE ROAD
AUGUSTA, MAINE

DRAWN BY	DATE	SCALE	PROJECT
KBY	3-5-75	1" = 50'	74025-2

Hf Hartland very fine Sandy Loam
Aa Adams Loamy Sand

POULIN SUBDIVISION
AUGUSTA, MAINE

HERBERT R. DOTEN
Consulting Engineer
128 State Street Augusta, Maine

1"=50'

74125