

MAP SHOWING UNCONSOLIDATED MATERIALS,
WINDSOR LOCKS QUADRANGLE, CONNECTICUT

SELECTED POINT OBSERVATIONS SHOWING TEXTURE OF STRATIFIED DEPOSITS

During the course of mapping, many observations were made (in pits, in banks, and by digging holes) of the particle sizes and distribution of unconsolidated materials. Boring logs of many wells and testholes (Ryder and Weiss, 1971) provided additional data that were especially useful in showing subsurface information. Selected observation points have been chosen for display on the map. The detailed materials information provided in each log pertains only to that specific point and should not be applied to the whole map unit. Information in parentheses is an interpretation of the log by the author.

3 ● Auger hole, bank scraping

5 ✕ Active pit

6 ✕ Inactive pit

Locations of selected field observations

Pits are numbered separately from auger holes and bank scrapings. Numbers are consecutive from north to south. See logs for descriptions

2 ● Testhole

15 ○ Water well

Locations of selected testholes and wells

Numbers correspond by town to those on file with the U.S. Geological Survey, Water Resources Division, Hartford, Connecticut. See logs for descriptions

Abbreviations

Textures are listed in order of decreasing abundance from left to right.

Texture	Color	Percent
b, boulders	brn, brown	and, 35-50 percent of sample
c, cobbles	red, red	sm, some, 20-35 percent of sample
p, pebbles	blk, black	lit, little, 10-20 percent of sample
g, granules	gr, gray	tr, trace, 0-10 percent of sample
s, sand	yel, yellow	
cs, coarse sand	tan, tan	
ms, medium sand	lgt, light	
fs, fine sand	orange, orange	
vfs, very fine sand		
st, silt		
cl, clay		
org, organic material		

LOGS

● FIELD OBSERVATIONS (AUGER HOLES, BANK SCRAPINGS)

Number	Depth, in feet ¹	Thickness, in feet ¹	Description
1	1-1/2	1-1/2	silt loam; blk-brn
	3-1/2	2	ms; orange
	4	1/2	m-cs; tr g; orange
	4-1/2	1/2	f-ms; lgt-brn
2	1/2	1/2	topsoil
	2	1-1/2	ms; brn
	4	2	vfs and st; gr-brn
	4-1/2	1/2	vfs
3	5	1/2	f-ms
	1/2	1/2	topsoil
	3	2-1/2	f-ms; tan
4	5	2	f-ms; lgt-brn
	1	1	sand loam
	3	2	ms; sm st; lgt-brn
	4	1	m-cs; lgt red-brn
5	5	1	ms; lgt-red
	2	2	ms
	3	1	fs; gr
	5	2	f-ms; gr
6	1	1	sandy loam
	5	4	fs; lgt-brn
	5		vfs
7	1	1	soil
	2	1	ms; lit cs,p
	2-1/2	1/2	vfs; gr
	4	1-1/2	vf-fs; gr
8	5	1	ms; gr

1 ft equals 0.3048 m

LOGS

● FIELD OBSERVATIONS (AUGER HOLES, BANK SCRAPINGS)

Number	Depth, in feet ¹	Thickness, in feet ¹	Description
8	1	1	soil
	3	2	vf-fs
	4	1	fs; lgt-brn
	5	1	f-ms; lgt-brn
9	2	2	fs; lgt-brn
	5	3	m-cs; sm g-p; red-brn
10	2	2	soil
	2-1/2	1/2	st; gr
	3-1/2	1	vf-fs; gr
	4-1/2	1	fs; gr
11	5	1/2	fs; brn
	1	1	soil
	2-1/2	1-1/2	vfs and st; yel-brn
	3-1/2	1	vfs; gr
	4	1/2	vf-fs; gr
	4-1/2	1/2	vfs; gr
12	5	1/2	vf-fs; gr
	5-1/2	1/2	vfs and st; lgt-red
	1-1/2	1-1/2	vfs; tan
	2-1/2	1	fs; tr g; lgt-brn
13	3	1/2	till
	3-1/2	1/2	fs, ms, cs, st; interbedded,
	4-1/2	1	lgt-red
	5	1/2	st; blk
	5		vfs; gr
14	1-1/2	1-1/2	fs; lgt-gr
	2-1/2	1	f-ms; lgt-gr, org
	3-1/2	1	fs; tan
	4-1/2	1	flowtill; red
	5	1/2	st; red
	5		fs; red
15	8-1/2	1/2	st; red
	1	1	soil
	2	1	fs; tan
	4	2	m-cs; lit g; lgt-brn
	8	4	f-ms; lgt-brn
16	8-1/2	1/2	fs; lgt-brn
	1	1	soil
	2-1/2	1-1/2	flowtill; red
17	5	2-1/2	f-ms; red
	1-1/2	1-1/2	fs; tan
18	7-1/2	6	s and g-p; red
	5	5	s and g-p; lgt-brn
19	7	2	s and g-p; red
	1	1	soil
	3	2	cs and g
	4	1	ms; sm g-p
	4-1/2	1/2	fs
	6	1-1/2	st; red-brn
20	6		cl
	5	5	flowtill
21	15	10	fs; lgt-brn
	2	2	soil
22	4	2	ms; orange
	5-1/2	1-1/2	m-cs; brn
	2	2	ms
23	3	1	m-cs
	4-1/2	1-1/2	cs and g-p
	5	1/2	ms
	4	4	flowtill; red
24	12	8	f-ms; brn
	3	3	vf-fs; gr-brn
25	4	1	ms; gr-brn
	4-1/2	1/2	m-cs; gr-brn
	5	1/2	cs; gr-brn
	1-1/2	1-1/2	ms
26	2-1/2	1	flowtill
	3	1/2	fs

LOGS

X X FIELD OBSERVATIONS (PITS)

● FIELD OBSERVATIONS (AUGER HOLES, BANK SCRAPINGS)

Number	Depth, in feet ¹	Thickness, in feet ¹	Description	Number	Depth, in feet	Thickness, in feet	Description
26	2-1/2 5	2-1/2 2-1/2	m-cs; brn f-ms; brn	7	3-1/2 7 8 9 10-1/2 11	3-1/2 3-1/2 1 1 1-1/2 1/2	f-ms; lgt-brn m-cs; lgt-brn ms; lgt-brn ms; tr p; red m-cs; brn cs; sm p
27	1 5	1 4	soil f-ms; lgt-brn	8	1 4 11	1 3 7	f-cs; lgt-brn s and g-p; red f-ms; lgt-brn; lit st, cl; red
28	5 5	5	p, c, g, and s; red cs; red	9	4	4	p-g and s; red
29	3 3	3	ms; sm p; brn ms	10	3-1/2 4-1/2 5-1/2	3-1/2 1 1	m-cs; sm g-p; lgt-brn f-ms; lgt-brn ms; lgt-brn
30	4 4-1/2	4 1/2	f-ms; lgt-brn vfs, st; tr p	11	1 2 7 10	1 1 5 3	soil c, p, and st; sm s and g; red s and c-g; red s; lgt-brn and st, cl; red; interbedded f-ms; lgt-brn
31	1/2 1-1/2 6	1/2 1 4-1/2	soil fs m-cs; sm g-p	12	8 13 17 18	8 5 4 1	p-g; sm s; red f-ms; lgt-brn p-g; sm s; red fs; lgt-brn
32	1 2-1/2 3 3-1/2 4	1 1-1/2 1/2 1/2 1/2	soil vfs; lgt-brn s and g-p f-ms s and g-p	13	2 5 15 19-1/2	2 3 10 4-1/2	s and g-p st-ms; interbedded vfs fs; gr
33	2 5	2 3	s and g-p; lgt-red fs; lgt-brn	14	1-1/2 2-1/2 3 6 6-1/2 8-1/2 9 9-1/2 10 10-1/2 11	1-1/2 1-1/2 1/2 3 1/2 2 1/2 1/2 1/2 1/2 1/2	soil c, b; sm cs, g cs and g; sm p c, p; sm s st; red f-ms; lgt-brn cs and g fs; lgt-red cs and g f-ms; lgt-brn vfs; sm st; red
34	4 4	4	vfs and st till; red	35	1 3 4-1/2 5 5	1 2 1-1/2 1/2	topsoil; blk cs and g-p cs and g; sm f-ms; interbedded s and g st and cl; brn
35	1 3 4-1/2 5 5	1 2 1-1/2 1/2	topsoil; blk cs and g-p cs and g; sm f-ms; interbedded s and g st and cl; brn	36	3-1/2 5	3-1/2 1-1/2	fs; lgt-brn vfs; lgt-brn
36	1 2 2-1/2 5	1 1 1/2 2-1/2	ms; tr p; brn m-cs; sm st, p; brn p; sm s fs; lgt-brn	37	2 6 6	2 4	ms; lgt-brn vfs, st, cl; gr, interbedded st; sm cl; gr
37	1 2 2-1/2 5	1 1 1/2 2-1/2	ms; tr p; brn m-cs; sm st, p; brn p; sm s fs; lgt-brn	38	1-1/2 4 4	1-1/2 2-1/2	cs and g-p cl; sm st; gr-red cl; red
38	2 6 6	2 4	ms; lgt-brn vfs, st, cl; gr, interbedded st; sm cl; gr	39	1 5 7	1 4 2	artificial fill f-ms; tan cl

● TESTHOLES

X X FIELD OBSERVATIONS (PITS)

Number	Depth, in feet	Thickness, in feet	Description	Town	Number	Depth, in feet	Thickness, in feet	Description
1	11 16	11 5	p, c, and s; red s, g, and p; interbedded; red	Bloomfield	1	3 12 30 37 50 69 69	3 9 18 7 13 19	f-cs; lit g; yel-red f-cs; lit g; brn fs; tr st; yel-brn fs; lit st; brn fs; tr st; gr-brn st; tr cl, fs; red-brn rock; red
2	1 4 7 10	1 3 3 3	s and g-p; red s, g, and p; interbedded fs; red c, p, and g; sm s	East Granby	1	38 44 44	38 6	cl till refusal
3	5 10 10	5 5	ms fs; lgt-brn st	East Granby	4	7 75 86 86	7 68 11	fs cl vfs refusal
4	1 2 7	1 1 5	cs and g ms vf-fs and st	East Granby	5	16 70 84 84	16 54 14	ms st cl refusal
5	2 14 16 16	2 12 2	flowtill m-cs; lit g-p artificial fill s	East Granby	6	12 58 61 61	12 46 3	st cl till refusal
6	1-1/2 5-1/2 7-1/2 7-1/2	1-1/2 4 2	soil vf-fs; lgt-brn cs and g; red-brn p and g; red	East Granby	7	11 81 85 85	11 70 4	fs st and cl till refusal
				East Granby	8	12 95	12 83	fs and st; brn till; red-brn
				East Granby	9	43 81 138 138	43 38 57	ms; lit st; brn fs; lit st; gr till rock; red
				Suffield	1	21 43 43	21 22	cl till refusal

● TESTHOLES

Town	Number	Depth, in feet	Thickness, in feet	Description
Windsor	4	1	1	topsoil
		4	3	st, g-p, cl (till)
		10	6	c, g-p, s, st (till)
		16	6	g-p, s, c, sl, st; red (till)
		24	8	ms
		29	5	cs
		33	4	till
		33		rock
Windsor	8	12	12	fs; brn
		22	10	fs; lit st; brn
		27	5	m-cs
		32	5	b
		42	10	ms; tr cl
		69	27	till
		74	5	rock
Windsor	21	32	32	ms
		40	8	fs
		48	8	s; tr g-p
		55	7	fs; tr g-p; brn
		65	10	s; sm g-p; brn
		73	8	fs; gr
		81	8	s; sm st
		89	8	fs; sm g-p
		93	4	fs; sm st
		93		refusal
Windsor	22	38	38	ms
		63	25	fs
		66	3	fs; tr g-p
		68	2	fs
Windsor	23	2	2	s; loamy
		21	19	ms; sm g-p
		26	5	ms; sm g-p; tr cl; red
		34	8	ms; sm g-p; red
		36	2	cs and g-p
		76	40	fs
		80	4	ms, g-p, b, tr cl, very compact (till)
		80		refusal
Windsor	24	2	2	s; loamy
		8	6	cs; sm g-p
		34	26	ms; sm g-p; lit cl; red
		40	6	ms; g-p; very compact (till)
		50	10	cs; g-p; b; very compact (till)
Windsor	25	50		refusal
		2	2	fs; loamy
		10	8	fs
		32	22	fs; lit cl
		46	14	cs
		73	27	m-cs; g-p; b; compact (till)
		73		refusal
Windsor	26	4	4	ms
		8	4	ms; g-p
		20	12	fs; brn
		22	2	vfs
		25	3	ms
		31	6	f-ms
		46	15	cs
		49	3	cs and g-p
		54	5	ms
		71	17	fs
Windsor	27	75	4	ms and g-p
		76	1	s; g-p; very compact (till)
		76		refusal
		2	2	topsoil
		8	6	cs
		12	4	ms
		25	13	fs and g-p
Windsor	28	30	5	ms; red
		50	20	fs
		55	5	ms
		66	11	fs
		70	4	fs and g-p; red
		76	6	fs
		91	15	fs and g-p
		91		refusal
Windsor	29	18	18	f-ms; sm st
		58	40	st and cl; varved
		66	8	till
		66		rock

● TESTHOLES

Town	Number	Depth, in feet	Thickness, in feet	Description
Windsor	30	44	44	f-ms; tr st
		100	56	st and cl
		106	6	st and cl; sm fs
		116	10	till
		116		rock
Windsor	31	5	5	f-cs; tr g
		8	3	fs
		17	9	f-cs; tr g
		38	21	f-ms; tr st
		53	15	fs; lit st
		62	9	f-ms
		130	68	st, fs, cl; varved
		138	8	f-ms; sm g-p; lit st, cl (till?)
		138		rock
Windsor	32	2	2	s; loamy
		26	24	st; sm fs
		53	27	st, cl; varved
		75	22	st; tr g
		80	5	g-p; sm st; lit f-cs
		89	9	st; lit g-p; tr f-cs
		99	10	f-ms; tr st
		116	15	st; sm f-cs, g-p
		116		rock
Windsor	33	9	9	water
		14	5	g-p and f-cs; lit st
		38	24	st and cl
		76	38	till
		76		rock
Windsor	34	7	7	fs
		12	5	fs; sm st
		17	5	fs
		27	10	m-cs
		72	45	fs and st
		82	10	fs
		102	20	fs; sm st
		107	5	s and st
		112	5	st and cl
		117	5	cl
Windsor	35	141	24	fs and cl
		146	5	cl; sm s
		151	5	cl; sm fs
		155	4	till
Windsor	Locks	11	11	m-cs
		16	5	fs
		26	10	cs
		36	10	fs; tr st
		76	40	fs; sm st
		107	31	fs; tr cl, st
		120	13	ms
Windsor	Locks	131	11	fs and st
		136	5	till
		136		rock
Windsor	Locks	2	13	fs
		20	7	cl and g-p
		26	6	fs
		26		refusal
Windsor	Locks	3	13	ms
		33	20	cl
		39	6	fs
		39		refusal
Windsor	Locks	4	13	st
		51	38	c
		51		refusal
Windsor	Locks	5	11	fs
		48	37	st and cl
		53	5	g-p
Windsor	Locks	53		refusal
Windsor	Locks	6	24	ms
		63	39	st and cl
		77	14	till
		77		refusal
Windsor	Locks	7	45	cl
Windsor	Locks	8	7	f-ms
		22	15	fs; yel-brn
		37	15	fs; tr st; brn
		62	25	fs; sm st; brn
		68	6	fs and st; tr cl
		79	11	st and cl; red and brn
Windsor	Locks	85	6	till
		85		rock
Windsor	Locks	10	3	fs; lit st
		36	33	st and cl; varved
		46	10	till
		46		rock

● TESTHOLES

○ WATER WELLS

Town	Number	Depth, in feet	Thickness, in feet	Description	Town	Number	Depth, in feet	Thickness, in feet	Description
Windsor Locks	13	28 34 51 78 78	28 6 17 27	s fs s and st cl till	East Granby	224	12 26 31 42 49	12 14 5 11 7	cs f-ms m-cs ms m-cs
Windsor Locks	14	6 11 21 41 46 61 101 111 116 121 126 132 132	6 5 10 20 5 15 40 10 5 5 5 6	fs; sm g fs and st m-cs fs; tr st cs; lit st fs, tr st fs and st fs and st; tr cl st and cl fs and cl; tr st fs and cl; varved till rock	East Granby	225	9 73 82 85 95 98	9 64 9 3 10 3	fs cl; brn and gr till; cl and s ? s and g-p g-p till
Windsor Locks	15	1 5 16 41 50 50	1 4 11 25 9	topsoil f-cs; lit g f-ms st and cl; varved till rock	Suffield	66	5 80 80	5 75	vfs cl; gr rock; red
Windsor Locks	16	70 85 100 115 115	70 15 15 15	s cl g-p till rock	Suffield	86	10 60 80	10 50 20	fs; gr cl and st; gr cl, st, s, g-p (till) rock; red
Windsor Locks	19	60 95 124 124	60 35 29	m-cs fs and st; gr cl and st; varved refusal	Suffield	88	60 66 66	60 6	cl; gr st; red rock; red
Windsor Locks	20	60 90 101 114 114	60 30 11 13	m-cs fs and st; gr cl and st; varved till refusal	Suffield	92	50 60 60	50 10	cl till rock; red
Windsor Locks	21	52 58 58	52 6	st and cl till refusal	Suffield	206	20 38 38	20 18	vf-fs cl rock; red
Windsor Locks	22	24 70 84 84	24 46 14	st cl fs refusal	Suffield	208	10 40 65 95	10 30 25 30	s; brn cl; red cl and st; red s and st; sm g; hard (till) rock
Windsor Locks	23	11 58 58	11 47	fs cl refusal	Suffield	217	90 100 100	90 10	cl st rock; red
Windsor Locks	24	11 44 44	11 33	fs st and cl refusal	Windsor	121	24 50 60 85	24 26 10 25	cs fs cl cs and cl (till)
Windsor Locks	25	50 56 60 60	50 6 4	st and cl fs and cl till rock	Windsor	125	10 23 42 50 63 68	10 13 19 8 13 5	fs cs g-p cl s cs
Windsor Locks	26	30 63 83	30 33 20	cs fs cl	Windsor	127	5 15 20 35 50 80 109 109	5 10 5 15 15 30 29	fs; brn cs; brn fs g-p fs cs till rock
Windsor Locks	27	20 40 105	20 20 65	cs fs fs, st; tr cl	Windsor	131	16 24 32 40 48 56 60 74 88 93 93	16 8 8 8 8 8 4 14 14 5	ms; brn fs; sm st f-ms ms ms; lit g-p fs; sm st fs fs; g-p fs fs; sm st refusal
Windsor Locks	28	25 60 100 105	25 35 40 5	cs; yel m-cs fs, st; tr cl cl	Windsor	132	17 24 58 88 91 91	17 7 34 30 3	cs; br ms and g; sm cs cs and g-p cl; sm vf-fs till refusal

○ WATER WELLS

Town	Number	Depth, in feet	Thickness, in feet	Description	Town	Number	Depth, in feet	Thickness, in feet	Description
East Granby	12	32 83 83	32 51	ms; yel till; red rock	Windsor	134	12 35 65 85 87 87	12 23 25 25 2	cs; brn cs and g s and g-p cl; sm vf-fs till refusal
East Granby	219	15 45 45	15 30	s till rock; red	Windsor	138	26 68 88	26 42 20	cs; brn st; ms; tr cl g-p and s; red (till?)
East Granby	221	28 58 58	28 30	fs ms rock	Windsor	139	22 48 74	22 26 26	cs; brn ms and g-p; red cs and g-p; b; red
East Granby	223	30 65 88 88	30 35 23	fs s cl rock; red					

○ WATER WELLS

Town	Number	Depth, in feet	Thickness, in feet	Description
Windsor	140	25	25	s and g-p; red
		43	18	cs
		52	9	cs and g-p
		60	8	s and g-p
		64	4	cs
Windsor	182	88	24	till
		25	25	s; brn
		65	40	cl; red
		75	10	fs; red
		80	5	till; red
Windsor	183	8	8	cs; yel
		40	32	till
		40		rock
Windsor	191	8	8	s
		40	32	cl
		40		rock
Windsor	192	12	12	cl, red (flowtill)
		24	12	fs
		45	21	cl, red (flowtill)
		95	50	till
		95		rock
Windsor	195	25	25	fs
		70	45	cl; red
		120	50	fs
		125	5	till
		125		rock
Windsor	200	50	50	m-cs
		80	30	g-p and s
		115	35	cl
		140	25	till
		140		rock
Windsor	205	40	40	fs; red
		62	22	cl; gr and red
		68	6	fs; red
		80	12	cs
		91	11	g-p
Windsor	209	91		till
		20	20	f-ms; brn
		25	5	f-ms; sm cs
		30	5	f-cs; sm g-p
		35	5	f-cs
Windsor	210	50	15	fs; sm st
		53	3	till
		53		refusal
		15	15	f-cs; sm g-p; brn
		25	10	f-cs; tr g-p
Windsor	211	47	22	fs; sm st
		51	4	till
		51		refusal
		19	19	f-cs; brn
		25	6	fs
Windsor	212	54	29	fs and st
		55	1	till
		55		refusal
		65	65	fs; sm st
		70	5	f-ms; sm st
Windsor	213	81	11	f-ms; sm st; tr cs
		81		till
		20	20	f-ms, sm st
		30	10	f-ms; sm st; tr cs
		48	18	fs; sm st
Windsor	214	65	17	till
		15	15	f-cs; sm st
		53	38	fs; sm ms, st; tr cl
		80	27	log missing
		80		till
Windsor Locks	1	35	35	fs
		85	50	cl; red
		103	18	g-p, c, b
Windsor Locks	15	50	50	s
		115	65	cl
		155	40	till
		155		rock
Windsor Locks	27	10	10	s
		33	23	cl
		44	11	fs
		50	6	g-p
		53	9	till
		53		rock
Windsor Locks	28	32	32	s
		54	22	vfs
		91	37	cl
		102	11	g-p

○ WATER WELLS

Town	Number	Depth, in feet	Thickness, in feet	Description
Windsor Locks	30	50	50	fs
		120	70	cl
		120		rock
Windsor Locks	37	15	15	m-cs
		25	10	ms
		79	54	m-cs
		115	36	st and cl
Windsor Locks	39	20	20	s and cl
		20		rock; red
Windsor Locks	46	70	70	fs
		100	30	st
		135	35	cl
		143	8	till
		143		rock; red