CZSS Description Standards & OSD's







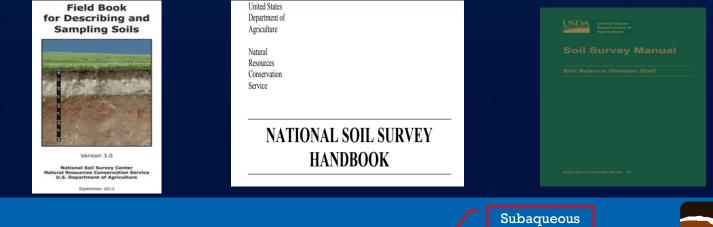
Subaqueous

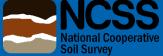


United States Department of Agriculture

WHAT IS A SOIL DESCRIPTION

- Soil descriptions are taken to document soil properties at particular key locations within a landscape and / or landform.
- The descriptions document a common suite of soil properties that convey information to soil customers.
- If documented accurately and located properly the descriptions are viable information now and long into the future.
- Soil observations are the foundation of our soil survey inventories "all we do in soil survey is collect data."

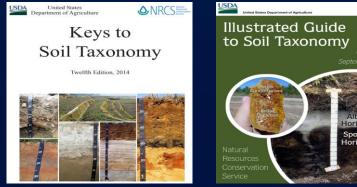


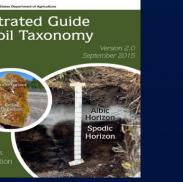


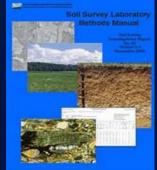


DESCRIPTION STANDARDS

- Generally speaking subaqueous soils are described using the same NCSS methods as are used for describing subaerial soils.
- The one major obvious difference in methods is the depth of water over the subaqueous soil surface.
- Subaqueous soils often have very thin soil surface horizons so care should used upon examining these soils.
- Subaqueous soils are often structure-less compared to subaerial soils.
- Most CZSS soils will have elevated levels of sulfides due to the fact that are extremely reduced.







Subaqueous







DESCRIPTION STANDARDS

Subaerial Soil

Thickness

Master Horizon and Suffix Symbols

Color

Texture

Fragments

Structure

Consistence

Roots and Pores

pH / Chemical response Horizon Boundary (distinctness & topography) Redox features

Subaqueous Soil

Thickness

Master Horizon and Suffix Symbols

Color

Texture

Fragments

n value / Fluidity

Roots and Pores

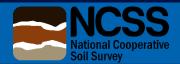
pH / incubation pH

Horizon Boundary (distinctness & topography)

Sulfide odor / peroxide reaction

Redox features





SOIL DESCRIPTIONS

	RCS					ŀ	PEDON	DESC	RIPTIC	DN	PEDON II	D#:				2	2/20
ieries or Com	mponent Nan	ne:			Map Unit Symbo	l:	Photo #:	Classific	ation:					So	oil Moist.	Regime	(Tax.)
escriber(s):):	Date:		-	Weather:	Temp	.: Air:		Latitude:	0		Geodetic D	Datum:	Locati	ion:		
							Soil: De	epth:	Longitude:	٥	. "w			Sec.	Т		R.
JTM: Zor	one: mE:		mN:	Topo Q	uad:		Site ID: Yr:	St	ate: County: A	Pedon #:	Soil Survey Area:	MLRA,		Trans Stop#		ID: Interval:	
andscape:	Land	form:	Microl	eature:	Anthro:		Elevation:	Aspect	Slope (%)): Slop	Complexity:	Slope Sh	ape: (Up	5 & Dn ;	/ Across)		
illslope Prof	ofile Position:	G	eom. Com	onent:	Microrelief:	Phys	io. Division:	Physio	Province:	Phys	io, Section:	State Phy	/sio. Are	ea:	Local P	hysio. Ar	ea:
rainage:		FI	ooding:		Ponding:	Soil M	oisture Status	8	K _{sat} ;					Lar	d Cover	/ Use:	
Parent Materi	rial:		1	Bedrock:	Kind: Fr	act.:	Hard.: D	lepth:	Lithostrat, Un	its:	Group:	Forn	nation:		Memb	er:	
rosion:	Kind:	Degree	2:	Surface F	rag %: GR:	CB:	ST: B	D: Cl	: FL:	P.S. Cont	rol Section:	Ave. (Clay%:		Ave.	Rock Frag	7 %:
				Kind:					1	Depth Rar	ige:						
	iorz. / Prop.: VEGET/		Kind: N:	Depth:				M	ISCELLANE	OUS F	IELD NOTES / S	KETCH:					
-		ATIO	N:	Depth:				М	ISCELLANE	OUS F	IELD NOTES / S	KETCH					
-	VEGET	ATIO	N:					М	ISCELLANE	OUS F	IELD NOTES / S	KETCH					
-	VEGET	ATIO	N:					М	ISCELLANE	OUS F	IELD NOTES / S	KETCH					
-	VEGET	ATIO	N:					М	ISCELLANE	OUS F	IELD NOTES / S	KETCH					
-	VEGET	ATIO	N:					М	ISCELLANE	OUS F	IELD NOTES / S	KETCH					
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-	VEGET	ATIO	N:					M	ISCELLANE	OUS F.	IELD NOTES / S	KETCH					
-	VEGET	ATIO	N:					M	ISCELLANE	0US F	IELD NOTES / S	KETCH					
	VEGET	ATIO	N:					M	ISCELLANE	0US F	IELD NOTES / S	KETCH					
IYMBOL	VEGET	ATIO	N:					M	ISCELLANE		IELD NOTES / S	KETCH					
	VEGET	ATIO	N:					M			IELD NOTES / 9	KETCH					

				SUBAQU	JEUUS	SOILS	PRUFIL	E DESC	RIPI	ION				
Site/P	Pedon ID:	52011RI00	9014A		Map Unit	: Frankenso	il mucky silt l	oam						
	Date:	8/16/2011		Location D	escription	: Ninigret Po	ond; 1000 m.	E. of interse		Water Column Measurements				
St	art Time:	8:30 AM				of Route 1	and Route 1/	A at Ninigret	; Park, R			Το	Bottor	
E	Ind Time:	11:45 AM		Water D	epth (<i>cm</i>)	120 cm					pH	l: 7.7	7.7	
Desc	criber(s):	Herman Mu	Inster	Bo	ttom Type	nud :					DO (mg/l)): 6	5	
Wayp	oint (#):	4		Submerge	ed Aq. Veg	: thick macr	roalgae			1	salinity (ppt)): 27	29	
GPS	(unit #):	Trimble Geo	o XH	Observatio	on Method	I: Vibracore t	tube				temp (°C): 20 °C 18			
Coord	linates 1:	N 41º 22' 13	3.0" Lat	Site Notes	:									
Coord	linates 2:	W 71º 39' 4	.0" Lon											
Geodeti	c Datum:	WG5 84												
Depth	Horizon	Horizon	Soil	Field	Coarse	Fluidity	RMFs	Peroxide	Oxidiz	ed pH	Odor	Origin	Notes	
(cm)		Boundary Distinct- ness	Color (matrix)	Texture Class	Frags (%)	Class		Color Change (Y/N)	init.	16 wks.	(Intensity, Kind)			
0-12	A	Abrupt	5Y 6/1	mucky silt Ioam	0	Very Fluid		Y	7.8	4.7	strong sulfurous	marine silt	pH by pH meter	
12-53	CI	Clear	5Y 2.5/1	mucky silt Ioam	0	Moderately Fluid		Y	7.7	4.9	strong sulfurous	marine silt		
53-88	C2	Abrupt	5Y 3/1	mucky silt Ioam	0	Moderately Fluid		Y	8.0	2.6	strong sulfurous	marine silt		
88-98	20a1	Abrupt	N 2.5/	muck	14 % gr	Slightly Fluid		N	7.8	6.6	slight sulfurous	organics, fresh		
	20a2	Abrupt	10YR 2/1	muck	1 % wood frags	Slightly Fluid		N	7.7	6.5	none	organics, fresh		
98-130	LOUL	'			110.000						1			

USDA

September 2012



Subaqueous

United States Department of Agriculture

DESCRIPTION STANDARDS

• Generally speaking the lower boundary of soils is set at a depth of 200 cm (2 meters) and yes we use the metric system.

1	Site Number:	FN1	62	Mapping Unit:		WTf4		Description	Fine-silty, m	ixed, subact	tive, nonacid, m	esic Fluvent
2	Date:	8/1/20)13	Location Desc	cription:	Tingles ser	ies in Goose	Creek	Water Column measurements:			
3	Start Time:	10:46	AM	Water Depth (ft/m):		40	3 cm			Surface	Mid	Bottom
4	End Time:	12:00	PM	Temp (F/C)		72	2.0 F		рН			
5	Surveyors:	risty Northrup,	Susan & Ro	Bottom Type:		Bare mud			DO (mg/l)			
6	Waypoint:			SAV cover:		N	lone		salinity (ppt)	16	16.1	16.4
7	GPS	ProX	YZ	Observation N	lethod:	Mc	Cauly		temp (F/C)	77.6 F	77.8 F	77.9 F
8	Latitude:	39° 57' 38.	1268" N	Site Notes:								
9	Longitude:	74° 7' 00.2	329" W		PDOP = 3.	5, auger refu	usal @ 170 cn	n, Tingles se	e <mark>ries</mark> , the dee	pest water v	ve've encountere	ed on
10		-			survey yet.							
	Horizon	Depth (cm)	Boundary Dist.	Field Texture	fluidity (n-value)	Munsell Color	Coarse frags (%)	Shell frags (%)	H ₂ S odor	Peroxide Color	Notes	Origin
11			Dist.	Class	(II-value)	(Matrix)	nags (<i>M</i>)	(70)		change		
	Aseg1	0-9 cm	clear	MUCKY SIL	very fluid	N 2.5/	0%	0%	Moderate	Yes	Very very fluid	Marina
12					(2)						and very black	silt
	Aseg2	9-34 cm	clear	MUCKY SIL	very fluid	N 2.5/	0%	0%	Moderate	Yes	some	
13					(2)						fragments of something we	Marine silt
	Cseg1	34-136 cm	clear	SIL	very fluid	5Y 2.5/1	0%	1%	Slight	Yes	Stratifications	
14					(2)						and bands	Marine silt
	Cseg2	136-170 cm		LOAM	moderately	2.5Y	0%	0%	Slight	No	throughout Many	Sin
	-				fluid (1)	2.5/1 =			Ŭ		stratifications	Marine
15						loam;					and bands of	silt



Helping People Understand Soils

<u>Subaqu</u>eous

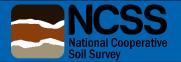


SOIL DESCRIPTIONS





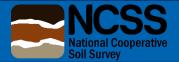












PLEASE GEOREFERENCE ALL SOIL OBSERVATIONS

\equiv Soil Survey Observation... Q

Location of soil survey observations taken during the subaqueous soil mapping for Barnegat Bay, NJ. 864 views

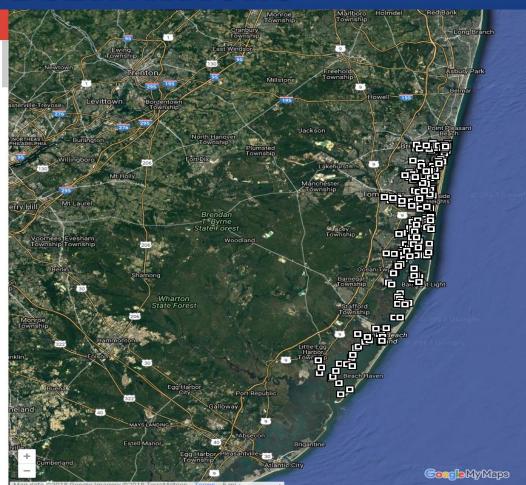
SHARE EDIT

BB_soil_observation_points

Mantoloking

~

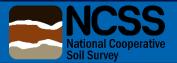
- Mantoloking
- Mantoloking
- Mantoloking
- Metedeconk
- Mantoloking (taxadjunct)
- Mantoloking
- Tumagan (taxadjunct)
- Trappe
- Herring Creek taxadjunct
- Truitt
- Truitt
- Truitt
- Truitt
- Metedeconk
- Herring Creek
- Herring Creek



<u>https://www.google.com/maps/d/viewer?mid=18ZfkHy-</u> rizqnITVVr7cI4sYj1jI&hl=en_US&ll=39.834648358045676%2C-74.00782113085938&z=10







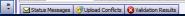
SOIL DESCRIPTIONS

NASIS Client Version Number: 7.0.3.11713

NASIS Queries Explorer Table Editor Help

T Site T Pedon X

					Site/Site Observation					
			User Site ID	Site Rec ID	Observation Date	Observation Date Kind	Site Observation	User Pedon ID	Δ	Pedon Re
	F	+ 🔻	2013NJ029006	▼ 810414	11/15/2013	actual site observation date	790573	2013NJ029006	Pedon PC	6.0
		+ 🔻	2013NJ029007	810415	11/15/2013	actual site observation date	790574	2013NJ029007	Spreadsh	eet
		+ 🔻	2013NJ029008	810419	11/21/2013	actual site observation date	790578	2013NJ029008	Spreadsh	eet
		+ 🔻	2013NJ029009	810418	11/21/2013	actual site observation date	790577	2013NJ029009	Spreadsh	eet
		+ 🔻	2013NJ029010	810417	12/04/2013	actual site observation date	790576	2013NJ029010	Spreadsh	eet
		÷ 🔻	2013NJ029011	810416	12/04/2013	actual site observation date	790575	2013NJ029011	Spreadsh	eet
		+ 🔻	2013NJ029012	810420	05/28/2014	actual site observation date	790579	2013NJ029012	Spreadsh	eet
		+ 🔻	2013NJ029102	872130	05/02/2013	actual site observation date	846689	2013NJ029102	Spreadsh	eet
		+ 🔻	2013NJ029103	872131	05/02/2013	actual site observation date	846690	2013NJ029103	Spreadsh	eet
		+ 🔻	2013NJ029104	872132	05/02/2013	actual site observation date	846691	2013NJ029104	Spreadsh	eet
		+ 🔻	2013NJ029105	872133	05/07/2013	actual site observation date	846692	2013NJ029105	Spreadsh	eet
		+ 🔻	2013NJ029106	872134	05/07/2013	actual site observation date	846693	2013NJ029106	Spreadsh	eet
		÷ 🔻	2013NJ029107	872135	05/09/2013	actual site observation date	846694	2013NJ029107	Spreadsh	eet
		+ •	2013NJ029108	872136	05/09/2013	actual site observation date	846695	2013NJ029108	Spreadsh	eet
3		+ •	2013NJ029109	872137	05/09/2013	actual site observation date	846696	2013NJ029109	Spreadsh	eet
		+ 🔻	2013NJ029110	872138	05/10/2013	actual site observation date	846697	2013NJ029110	Spreadsh	eet
Gueries		+ 🔻	2013NJ029111	872139	05/10/2013	actual site observation date	846698	2013NJ029111	Spreadsh	eet
		+ 🔻	2013NJ029112	872140	05/14/2013	actual site observation date	846699	2013NJ029112	Spreadsh	eet
		+ 🔻	2013NJ029113	872141	05/14/2013	actual site observation date	846700	2013NJ029113	Spreadsh	eet
		+ 🔻	2013NJ029114	872142	05/15/2013	actual site observation date	846701	2013NJ029114	Spreadsh	eet
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		+ 🔻	2013NJ029117	872145	05/16/2013	actual site observation date	846704	2013NJ029117	Spreadsh	eet
		+ 🔻	2013NJ029118	872146	05/16/2013	actual site observation date	846705	2013NJ029118	Spreadsh	eet
		+ 🔻	2013NJ029119	872147	05/16/2013	actual site observation date	846706	2013NJ029119	Spreadsh	eet
		+ 🔻	2013NJ029120	872148	05/21/2013	actual site observation date	846707	2013NJ029120	Spreadsh	eet
		+ 🔻	2013NJ029121	872149	05/21/2013	actual site observation date	846708	2013NJ029121	Spreadsh	et
		+ 🔻	2013NJ029122	872150	05/21/2013	actual site observation date	846709	2013NJ029122	Spreadsh	eet
		+ •	2013NJ029123	872151	05/22/2013	actual site observation date	846710	2013NJ029123	Spreadsh	eet
		+ 🔻	2013NJ029124	872152	05/22/2013	actual site observation date	846711	2013NJ029124	Spreadsh	eet
		+ 🔻	2013NJ029125	872153	05/22/2013	actual site observation date	846712	2013NJ029125	Spreadsh	eet
		+ 🔻	2013NJ029126	872154	06/05/2013	actual site observation date	846713	2013NJ029126	Spreadsh	eet
		+ 🔻	2013NJ029127	872155	06/05/2013	actual site observation date	846714	2013NJ029127	Spreadsh	eet
~		÷ •	2013NJ029128	872156	06/05/2013	actual site observation date	846715	2013NJ029128	Spreadsh	eet
2		+ •	2013NJ029129	872157	06/05/2013	actual site observation date	846716	2013NJ029129	Spreadsh	eet
С		+ •	2013NJ029130	872158	06/11/2013	actual site observation date	846717	2013NJ029130	Spreadsh	eet
		+ •	2013NJ029131	872159	06/11/2013	actual site observation date	846718	2013NJ029131	Spreadsh	eet
2		+ •	2013NJ029132	872160	06/11/2013	actual site observation date	846719	2013NJ029132	Spreadsh	eet
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		+ •	2013NJ029136	872164	06/28/2013	actual site observation date	846723	2013NJ029136	Spreadsh	eet
v		+ 🔻	2013NJ029138	872165	06/28/2013	actual site observation date	846724	2013NJ029138	Spreadsh	eet
		+ •	2013NJ029139	872166	07/10/2013	actual site observation date	846725	2013NJ029139	Spreadsh	eet
C			2013NJ029140	872167	07/10/2013	actual site observation date	846726	2013NJ029140	Spreadsh	eet
41	144 44 4	Recon	d 81 of 195 → → → + + ×							







Subaqueous

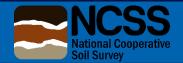


TRUITT SUBAQUEOUS SOIL SERIES

												. <u> </u>								
	2014NJ029003	2014NJ029038	2013NJ029126	2013NJ029138	1997MD047082	2005MD047121	2005MD047126		2005MD047134	2005MD047136	2005MD047142	2013NJ029172	2015NJ029023	2013NJ029196	2012NJ029065	2012NJ029060	2012NJ029056	2012NJ029055	2013NJ029105	2013
	representative pedon for component	representative pedon for component	representative pedon for component	representative pedon for component	correlates to named soil	taxadjunct to the series	taxa the s													
	C:Truitt	C:Truitt	C:Truitt	C:Truitt	C:Truitt		C:Truitt	C:Tr												
Description	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map site	Map
Soil map	Description	Description	Description	Description	Description Soil map	Desi Soil														
	Soil map	Soil map	Soil map	Soil map																
2012MD047035	2014NJ029003	2014NJ029038	2013NJ029126	2013NJ029138	1997MD047082	2005MD047121	2005MD047126	2005MD047127	2005MD047134	2005MD047136	2005MD047142	2013NJ029172	2015NJ029023	2013NJ029196	2012NJ029065	2012NJ029060	2012NJ029056	2012NJ029055	2013NJ029105	2013
	Ase:F=10	Aseg1:	Aseg:	Aseg:	Aseg:	Ase:F=2	A:	A:F=1	A1:F=3	A1:	Ase:F=1	Aseg:	Ase:F=5	Aseg:F=4	Aseg:F=1	Ag:	Aseg1:	Aseg:F=1	Aseg:F=2	Aseç
Cseg1:			Cseg1:F=1	Cseg1:	2Cseg1:	Cseg1:	Ase:		A2:F=2	A2:	Cseg1:	Cseg1:F=2	Oaseb:		Cseg1:F=4	Cseg1:F=1	Aseg2:	Cseg1:F=1	Cseg1:	
	Cse1:F=4	Aseg2:						Cseg1:					20							Csei
			Cseg2:F=1					00091.	Cg1:	Cg:		Cseg2:	2Cseg1:	Cseg1:F=2		Cseg2:	Cseg1:			
							Cseg1:				Cseg2:F=1					oogz.				
	Cse2:F=2	ACseg:					2			2Cseg1:				Cseg2:F=1				Cseg2:F=3	A'seg:	
						Cseg2:		Cseg2:					2Cseg2:	00092.1 = 1	Cseg2:					
		Cseg1:			2Cseg2:							Cseg3:		Cseg3:						
Cseg2:	Cse3:		Cana2:										2Cseg3:				Cseg2:		Cseg2:	Aseç
-			Usega.	Cseg2:								Cseg4:	20sego.	Cseg4:F=2				Cseg3:		
Cseg3:F=3		Cseg2:			2Cseg3:	Cseg3:			Cg2:										Cseg3:	Cse
Usego.r=o								Cseg3:		2Cseg2:	Oseb:				2Oaseb:					
					Oaseb:				Oaseb:									2Ab:		
			2Oaseb:				Cseg2:		2Ab:					2Oase:			20ese:			Aseç
Cseg4:F=2			200360.								Aseb:		Oaseb1:	20036.					2	
					3Csegb4:				2Cg1:		Bseb:	Cseg5:							Cseg4:	
Cseg5:F=17	Cse4:	20eseb:		2Oaseb:						2Cseg3:	Cseg:		Oaseb2:							
	20												0.0004.							
	20dse:						Oaseb:	Cseg4:F=2	2Cg2:	2Oaseb1:		2Oase:					30ase:		Cseg5:F=5	Cseț
Cseg6:F=15	2Aseb:						Aseb:													
		2Oaseb:					Cseg:	Oaseb1:												-
																				•



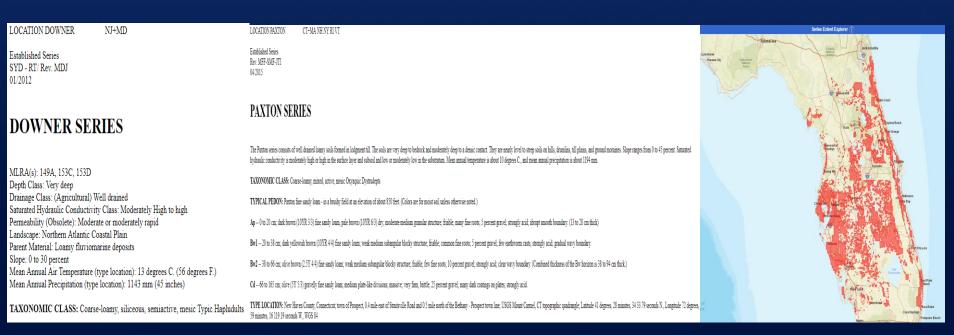
Subaqueous



United States Department of Agriculture

WHAT IS AN OSD?

- Official Soil Series Description = essentially the lowest category of our soil classification or Soil Taxonomy system.
- The Soil Series is taxonomic placeholder with a distinct conceptual model with a specific norm and range of characteristics (texture, color, structure, etc.) attached to it.
- Each state has a state soil which is represented by a particular integral placeholder in our soil taxonomic system.





Helping People Understand Soils

Subaqueous

TRUITT SUBAQUEOUS SOIL DATA EXPLORER

https://casoilresource.lawr.ucdavis.edu/sde/?series=truitt

Soil Data Explorer - TRUITT
OSD Lab Data Component Association Series Association Block Diagrams Map Units Extent Competing Series
Official Series Description
LOCATION TRUITT MD+NJ
Established Series
DMB/PK/Rev. SYD/RBT 11/2017
TRUITT SERIES
MLRA(s): 153D Soil Survey Regional Office (SSRO) Responsible: Raleigh. North Carolina
Depth Class: Very deep
Drainage Class: Subaqueous (permanently submersed) Saturated Hydraulic Conductivity: Low to moderately low
Parent Material: Fine-silty mainland cove estuarine deposits over buried Holocene organic materials Slope: 0.10 to 0.25 percent
Mean Annual Air Temperature: 56 degrees F. (13 degrees C.) Mean Annual Water Temperature: 57 degrees F. (14 degrees C.)
TAXONOMIC CLASS: Fine-silty, mixed, subactive, nonacid, mesic Fluventic Sulfivassents
TYPICAL PEDON: Truitt silty clay loam, on a permanently submerged mainland cove, 0.20 percent slope, under 87 inches (220 centimeters) of strongly saline water. (Colors are for moist soil unless otherwise noted. Described on August 21, 2005, the soil was moist throughout.)
Ase0 to 1 inch (0 to 2 centimeters); very dark gray (5Y 3/1) silty clay loam; massive; non sticky; very fluid; sulfurous odor; slightly alkaline; abrupt boundary.
Cseg11 to 30 inches (2 to 76 centimeters); very dark greenish gray (10Y 3/1) silt loam; massive; moderately sticky; very fluid; sulfurous odor; slightly alkaline); slightly saline; clear boundary.
Cseg230 to 37 inches (76 to 95 centimeters); very dark greenish gray (10Y 3/1) loam; massive; moderately sticky; very fluid; sulfurous odor; slightly alkaline; slightly saline; clear boundary.
Cseg3-37 to 52 inches (95 to 131 centimeters); very dark greenish gray (10Y 3/1) silty clay loam; massive; moderately sticky; very fluid; 3 percent shell fragments; sulfurous odor; slightly alkaline; very slightly saline; clear boundary.
Cseg452 to 57 inches (131 to 145 centimeters); very dark greenish gray (10Y 3/1) silty clay loam; massive; moderately sticky; very fluid; 2 percent light olive brown (2.5Y 5/6) herbaceous fibers; sulfurous odor; slightly alkaline; slightly saline; clear boundary.
Cseg5-57 to 66 inches (145 to 168 centimeters); dark olive gray (5Y 3/2) with some very dark greenish gray (10Y 3/1) areas silty clay; massive; slightly sticky; very fluid; 15 percent light olive brown (2.5Y 5/6) herbaceous fibers; 2 percent shell fragments; sulfurous odor; slightly alkaline; slightly saline; clear boundary.
Cseg666 to 77 inches (168 to 195 centimeters); dark gray (5Y 4/1) mucky silty clay loam; massive; slightly sticky; very fluid; 15 percent light olive brown (2.5Y 5/6) herbaceous fibers; sulfurous odor; slightly alkaline; slightly saline; abrupt boundary.
20aseb177 to 84 inches (195 to 213 centimeters); dark olive gray (5Y 3/2) muck; 40 percent light olive brown (2.5Y 5/4) herbaceous fibers; sulfurous odor; slightly alkaline; slightly saline; clear boundary.
2Oaseb284 to 88 inches (213 to 224 centimeters); black (10YR 2/1) muck; sulfurous odor; slightly alkaline; clear boundary.
3Aseb88 to 96 inches (224 to 245 centimeters); black (10YR 2/1) mucky loam; massive; slightly sticky; fluid; sulfurous odor; neutral; non-saline; clear boundary.



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Helping People Understand Soils

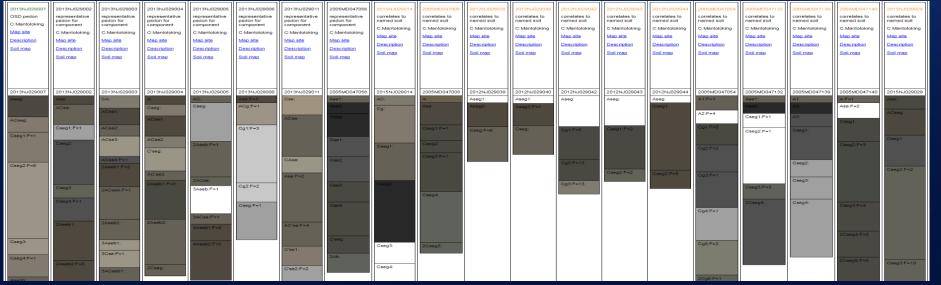
Subaqueous

Vational Cooperative

Soil Survey

OFFICIAL SOIL SERIES DESCRIPTION

- 10 complete soil descriptions required to establish an OSD
- 10 descriptions should taxonomically classify very similar to effectively establish a range in soil characteristics
- Soil Series concepts allow soils scientists to "talk shop"

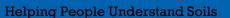


614.6 The Soil Series

Subaqueous

A. The soil series is the lowest category of the national soil classification system. The name of a soil series or the phase of a soil series is the most common reference term used in soil map unit names. The name of a soil series is also the most common reference term used as a soil map unit component. The purpose of the soil series category is closely allied to the interpretive uses of the system. Map unit

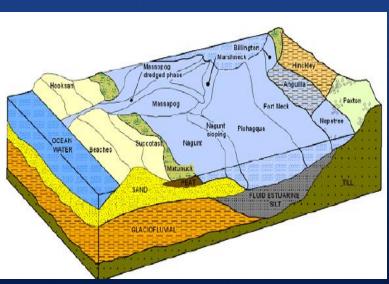




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SOIL SERIES CATENA'S HAMMONTON SSO

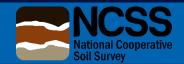
1	А	В	С	D	E	F	G	Н	I
1	Water Table Depth	Fine-silty	Fine-silty	Fine-loamy	Fine-loamy	Coarse-loamy	Coarse-loamy	Sandy	Sandy
2	(Redox Features)	SiL/SiCL Bt	(>50" silts)	SiL surface	SL/L surface	L surface	LS/SL surface	(w/ Bt)	(w/o Bt)
3				SiL/L Bt	SCL Bt	L/SL Bt	SL Bt	LS Bt	
		Matapeake		Reybold	Sassafras	Greenwich	Downer	Galestown	Evesboro
		Nassawango		Queponco	Hambrook	Unicorn	Ingleside	Cedartown	Runclint
		Mattapex	Leipsic	Manokin	Woodstown	Pineyneck	Hammonton		Galloway
		Crosiadore		Annemessex	Marshyhope		Glassboro		Klej
	0-10" P	Othello	Tent	Quindocqua	Fallsington	Carmichael	Hurlock		Askecksy
9		Elkton							
10		Whitemarsh							
	ponded to 0" VP	Kentuck			Corsica		Pone		
12									
		Fine	Arenic	Paleudults	Other		Coarse-loamy		Sandy
		SICL/SIC/C Bt	SL Bt	arenic/gross	(not in any drainage	e order)	(no Bt)		w/ Bh
	>72" W		Fort Mott	Henlopen	Beaches				
	40-72" SWWD		Rosedale		Udorthents				
		Keyport	Rockawalkin	Pepperbox					
	10-20" SWP								
	0-10" P	Lenni							
	ponded to 0" VP						Mullica		Berryland
21									
	Floodplain, Swamp,				ness of O.M.				
23	and Submerged Upla	and Soils	Umbric	Less than 8" Sunken (brackish)	Thapto-hist	8" to 16"	16" to 51"	Greater than 5)1
	Submerged-upland								
		Mineral var OC	Longmarsh	Tangier (high salt) Zekiah	Chicone				
25	Floodplain-Fresh	Mineral var. OC	Indiantown	Zekian	Chicone				
	Swamp-Fresh	Woody over S	Indiantown				Manahawkin	Puckum	
28		Woody over SiL/L					Lenape	FUCKUIII	
		Herb, over Sil/Sicl		Nanticoke	Mannington		Lenape		
	tidal influence	TIERD, OVER ON/OICI		Nanticoke	Mannington				
		Herb, over S/LS				Purnell	Mispillion		
		Herb, over SiL/L		Broadkill	Appoquinimink	Boxiron	Honga		
33		Herb. over SiC/C		Droudidin	/ tppoquininini	Doxiron	Bestpitch	Transquaking	
		Excessive drained		Acquango			Desepter	runoquaking	
35		Mod. Well drained		Brockatonorton					
36		SWP		Bayberry*					
37		Poorly drained		Fox Hill**					
38		Poorly drained, tidal,	sulf	Salt Pond					



Fine	Fi-Si	Organic	Fi-Si	Fi-Si	Fine-Silty	Fi-Lo	Sandy	Co-Lo	Co-Lo	Co-Lo	Sandy	SalLo	Sandy	Sandy	Organic
FBILBINC	ETC	ETC	LB	MC	Barrier Cove:	LB	SWCP/PH	SWCP/PH	LB	dredge spo	dune washo	SSWFF/PH	FTD	Paleo-Relict FTD	SWCPIMC
									barrier side		fan				
Coards	Herring Creek\$	Metedeconk\$	Tingles	Southpoint*	Middlemoor	Figgs	Trappe ‡	Pasture Point‡	Cottman	Sinepuxent	<u>Whittington</u>	Tizzard	Indian River	Mantoloking	Tumagan
											Demas				
				Truitt**							Тгарра				
											Thorefore				







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