

### Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments #53 Tia Anna Ln Oak Bluffs Map 13 lot 13

Owner
information is
required for every
nage

Property Address	Sandra Spielvogel Re. Tr. c/o Will Spielvogel 2430 Raven Dr					
Owner's Name	Sullivan's island	SC	29482	2/23/19		
City/Town		State	Zip Code	Date of Inspection		

Inspection results must be submitted on this form. Inspection forms may not be altered in any way. Please see completeness checklist at the end of the form.

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Inspector Information		
Douglas E. Cooper		
Name of Inspector		
Cooper Environmental Services, LLC		
Company Name		
33 Old Dunhams Corner Way		
Company Address		
Edgartown	MA	02539
City/Town	State	Zip Code
508-627-9586	2857	
Telephone Number	License Number	

#### **B.** Certification

I certify that: I am a DEP approved system inspector in full compliance with Section 15.340 of Title 5 (310 CMR 15.000); I have personally inspected the sewage disposal system at the property address listed above; the information reported below is true, accurate and complete as of the time of my inspection; and the inspection was performed based on my training and experience in the proper function and maintenance of on-site sewage disposal systems. After conducting this inspection I have determined that the system:

1.	X	Passes	
2.		Conditionally Passes	
3.		Needs Further Evaluation by the Local Approvin	g Authority
4.		Fails	
		Douglas E Cooper	2/23/19
	Insp	ector's Signature	Date

The system inspector shall submit a copy of this inspection report to the Approving Authority (Board of Health or DEP) within 30 days of completing this inspection. If the system has a design flow of 10,000 gpd or greater, the inspector and the system owner shall submit the report to the appropriate regional office of the DEP. The original form should be sent to the system owner and copies sent to the buyer, if applicable, and the approving authority.

Please note: This report only describes conditions at the time of inspection and under the conditions of use at that time. This inspection does not address how the system will perform in the future under the same or different conditions of use.



#### **Commonwealth of Massachusetts**

# Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Prop	perty Address	Sandra Spielvoge	el Re. Tr. c/o W	ill Spielvogel	2430 Raven Dr			
Own	ner's Name	Sullivan's island	SC	29482	2/23/19			
City	/Town		State	Zip Code	Date of Inspection			
C.	-	tion Summary Summary: Complete	1, 2, 3, or 5 and al	I of 4 and 6.				
1)	System Pa	asses:						
	in 310				e failure criteria described teria not evaluated are			
	Comments	<b>:</b> :						
	THIS	SYSTEM WAS FO	OUND IN SOUN	ID OPERATIO	ONAL CONDITION.			
	A MA	INTENANCE PUM	PING IS RECO	OMENDED AT	THIS TIME.			
2)	System C	onditionally Passes:	N/A					
	replace		stem, upon compl		nal Pass" section need to be cement or repair, as approved b	у		
	Check the box for "yes", "no" or "not determined" (Y, N, ND) for the following statements. If "not determined," please explain.							
	The septic tank is metal and over 20 years old* <b>or</b> the septic tank (whether metal or not) is structurally unsound, exhibits substantial infiltration or exfiltration or tank failure is imminent. System will pass inspection if the existing tank is replaced with a complying septic tank as approved by the Board of Health.							
	* A metal septic tank will pass inspection if it is structurally sound, not leaking and if a Certificate of Compliance indicating that the tank is less than 20 years old is available.							
	□ Y	□ N □ I	ND (Explain below	<i>י</i> ):				



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safety and the environment:

# Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

#53 Tia Anna Ln Oak Bluffs Map 13 lot 13

Prop	perty	Address	Sandra Spielvogel Re. T	r. c/o Wi	ll Spielv	ogel 2	430 Rave	n Dr	
		Name	Sullivan's island	SC	294		2/23/19		
City	/Tow	n		State	Zip (	Code	Date of In	spection	
		-	tion Summary (cont.)	NI/A					
2)	Sys	stem C	onditionally Passes (cont.):	N/A					
			Chamber pumps/alarms not o s/alarms are repaired.	perational.	System	will pass	s with Board	d of Health approval if	
	Observation of sewage backup or break out or high static water level in the distribution box due to broken or obstructed pipe(s) or due to a broken, settled or uneven distribution box. System v pass inspection if (with approval of Board of Health):								
			broken pipe(s) are replaced		□ Y	□N	☐ ND (E	xplain below):	
			obstruction is removed		□ Y	□N	□ ND (E	xplain below):	
			distribution box is leveled or	replaced	□ Y	□N	□ ND (E	xplain below):	
			rstem required pumping more n will pass inspection if (with a					ostructed pipe(s). The	
			broken pipe(s) are replaced		□ Y	□N	□ ND (E	xplain below):	
			obstruction is removed		☐ Y	□N	□ ND (E	xplain below):	
3)	Fu	rther Ev	valuation is Required by the	Board of	Health:	N/A			
			ions exist which require furthe stem is failing to protect public					order to determine if	
		a. Sys	stem will pass unless Board	of Health	determi	nes in a	ccordance	with 310 CMR	

15.303(1)(b) that the system is not functioning in a manner which will protect public health,



#### **Commonwealth of Massachusetts**

# Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

#53 Tia Anna Ln Oak Bluffs Map 13 lot 13

Prop	perty Address	Sandra	Spielvogel Re. Tr	r. c/o Will	Spielvogel 2	430 Raven Dr
Owr	ner's Name	Sullivar	n's island	SC	29482	2/23/19
City	/Town			State	Zip Code	Date of Inspection
C.	Inspect	ion Su	mmary (cont.)	N/A		
		Cesspoo	l or privy is within 50	feet of a so	urface water	
		Cesspoo	l or privy is within 50	feet of a b	ordering vegeta	ted wetland or a salt marsh
	detern		the system is funct			ater Supplier, if any) protects the public health,
	100 fed ☐ The supply	et of a surf e system h	ace water supply or t nas a septic tank and	ributary to SAS and t	a surface water he SAS is withi	n a Zone 1 of a public water
	supply Th	well. e system h	nas a septic tank and	SAS and t		n 50 feet of a private water than 100 feet but 50 feet or
			ate water supply well <sup>:</sup> determine distance:	**.		
** This system passes if the well water analysis, performed at a D coliform bacteria indicates absent and the presence of ammonia r to or less than 5 ppm, provided that no other failure criteria are trig be attached to this form.  c. Other:					of ammonia nitr	ogen and nitrate nitrogen is equal
4)	System Fa	ailure Crite	eria Applicable to A	II Systems	:: N/A	
•	-		inspections:			
	Yes	No				
		X	Backup of sewage in clogged SAS or ces		or system comp	onent due to overloaded or
		X		g of effluer		of the ground or surface waters



### **Commonwealth of Massachusetts**

## Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

#53 Tia Anna Ln Oak Bluffs Map 13 lot 13

Property Address	Sandra Spielvogel Re	e. Tr. c/o Wil	I Spielvogel	2430 Raven Dr
Owner's Name	1 5		1 3	
	Sullivan's island	SC	29482	2/23/19
City/Town		State	Zip Code	Date of Inspection

Inspection Summary (cont.)						
System F	ailure Cri	iteria Applicable to All Systems: (cont.) N/A				
Yes	No					
	X	Static liquid level in the distribution box above outlet invert due to an overloaded or clogged SAS or cesspool				
	X	Liquid depth in cesspool is less than 6" below invert or available volume is less than ½ day flow				
	X	Required pumping more than 4 times in the last year <i>NOT</i> due to clogged or obstructed pipe(s). Number of times pumped:				
	X	Any portion of the SAS, cesspool or privy is below high ground water elevation.				
	X	Any portion of cesspool or privy is within 100 feet of a surface water supply or tributary to a surface water supply.				
	X	Any portion of a cesspool or privy is within a Zone 1 of a public water supply well.				
	X	Any portion of a cesspool or privy is within 50 feet of a private water supply well.				
	X	Any portion of a cesspool or privy is less than 100 feet but greater than 50 feet from a private water supply well with no acceptable water quality analysis. [This system passes if the well water analysis, performed at a DEP certified laboratory, for fecal coliform bacteria indicates absent and the presence of ammonia nitrogen and nitrate nitrogen is equal to or less than 5 ppm, provided that no other failure criteria are triggered. A copy of the analysis and chain of custody must be attached to this form.]				
	X	The system is a cesspool serving a facility with a design flow of 2000 gpd-10,000 gpd.				
	X	The system <u>fails</u> . I have determined that one or more of the above failure criteria exist as described in 310 CMR 15.303, therefore the system fails. The system owner should contact the Board of Health to determine what will be necessary to correct the failure.				
design flo	ow of 10,0 systems, y	o be considered a large system the system must serve a facility with a 000 gpd to 15,000 gpd.  you must indicate either "yes" or "no" to each of the following, in addition to the n C.4. N/A				
Yes	No					
		the system is within 400 feet of a surface drinking water supply				
		the system is within 200 feet of a tributary to a surface drinking water supply				
		the system is located in a nitrogen sensitive area (Interim Wellhead Protection Area – IWPA) or a mapped Zone II of a public water supply well				

5)



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Owner's Name							
	Sullivan's island	SC	29482	2/23/19			
City/Town		State	Zip Code	Date of Inspection			

### C. Inspection Summary (cont.)

If you have answered "yes" to any question in Section C.5 the system is considered a significant threat, or answered "yes" to any question in Section C.4 above the large system has failed. The owner or operator of any large system considered a significant threat under Section C.5 or failed under Section C.4 shall upgrade the system in accordance with 310 CMR 15.304. The system owner should contact the appropriate regional office of the Department.

6. You must indicate "yes" or "no" for each of the following for all inspections:

Yes	No	
X		Pumping information was provided by the owner, occupant, or Board of Health
	X	Were any of the system components pumped out in the previous two weeks?
	X	Has the system received normal flows in the previous two week period?
	X	Have large volumes of water been introduced to the system recently or as part of this inspection?
X		Were as built plans of the system obtained and examined? (If they were not available note as N/A)
X		Was the facility or dwelling inspected for signs of sewage back up?
$\boxtimes$		Was the site inspected for signs of break out?
$\boxtimes$		Were all system components, excluding the SAS, located on site?
X		Were the septic tank manholes uncovered, opened, and the interior of the tank inspected for the condition of the baffles or tees, material of construction, dimensions, depth of liquid, depth of sludge and depth of scum?
		Was the facility owner (and occupants if different from owner) provided with information on the proper maintenance of subsurface sewage disposal systems? The size and location of the Soil Absorption System (SAS) on the site has been determined based on:
X		Existing information. For example, a plan at the Board of Health.
X		Determined in the field (if any of the failure criteria related to Part C is at issue approximation of distance is unacceptable) [310 CMR 15.302(5)]



### **Commonwealth of Massachusetts**

## **Title 5 Official Inspection Form**

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	"00 Ha / tilla Ell Cak Blatto Map 10 lot 10								
rop	perty Address	Sandra Spielvogel R	le. Tr. c/o V	Vill Spielvogel	2430 Raven I	Dr			
wr	ner's Name	Cullivente island	00	00400	0/00/40				
ity	/Town	Sullivan's island	SC State	29482 Zip Code	2/23/19 Date of Inspect	ion			
		Information		<u> </u>	·				
	Residentia	l Flow Conditions:							
	Number of b	Number of bedrooms (design): 3 Number of bedrooms (actual)							
	DESIGN flo	w based on 310 CMR 15.2	203 (for exam	nple: 110 apd x #	of bedrooms):		330	GPD	
	Description:		(	.p.c gp a					
	Nivesbay of a	0							
	Number of 0	current residents:					-		
	Does reside	ence have a garbage grind	er?				Yes X	No	
	Does reside	Does residence have a water treatment unit?							
		If yes, discharges to:							
		n a separate sewage syste in this report.)	em? (Include	laundry system i	nspection		Yes 🛚	No	
	Laundry sys	stem inspected?					Yes 🛚	No	
	Seasonal us	se?				X	Yes 🗌	No	
	Water mete	r readings, if available (las	t 2 years usa	ge (gpd)):					
	Detail:								
	Sump pump	o?					Yes 🛚	No	

Last date of occupancy:



#### **Commonwealth of Massachusetts**

## Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments #53 Tia Anna Ln Oak Bluffs Map 13 lot 13

Property Address Sandra Spielvogel Re. Tr. c/o Will Spielvogel 2430 Raven Dr Owner's Name SC Sullivan's island 29482 2/23/19 City/Town State Zip Code Date of Inspection **D. System Information** (cont.) **Commercial/Industrial Flow Conditions:** N/A Type of Establishment: Design flow (based on 310 CMR 15.203): Gallons per day (gpd) Basis of design flow (seats/persons/sq.ft., etc.): Grease trap present? ☐ Yes ☐ No Water treatment unit present? ☐ Yes ☐ No If yes, discharges to: ☐ Yes ☐ No Industrial waste holding tank present? Non-sanitary waste discharged to the Title 5 system? ☐ Yes ☐ No Water meter readings, if available: Last date of occupancy/use: Date Other (describe below): **Pumping Records:** TOWN RECORDS AND/OR OWNER Source of information: ☐ Yes 🏹 No Was system pumped as part of the inspection? If yes, volume pumped: gallons How was quantity pumped determined? Reason for pumping:



#### **Commonwealth of Massachusetts**

# Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

#53 Tia Anna Ln Oak Bluffs Map 13 lot 13

Property Address Sandra Spielvogel Re. Tr. c/o Will Spielvogel			2430 Raven Dr		
Owner's Name	Sullivan's island	SC	29482	2/23/19	
City/Town		State	Zip Code	Date of Inspection	

### D

	Sullivan's island	SC	29482	2 2/23/19
City/Town		State	Zip Code	Date of Inspection
D. Syste	m Information (cont.)			
4. Type of	System:			
X	Septic tank, distribution b	oox, soil abs	orption sys	stem
	Single cesspool			
	Overflow cesspool			
	Privy			
	Shared system (yes or n	o) (if yes, att	ach previc	ous inspection records, if any)
		be obtained	d from syst	y of the current operation and tem owner) and a copy of latest r under contract
	Tight tank. Attach a copy	of the DEP	approval.	
	Other (describe):			
SY	nate age of all components, date 'STEM INSTALLED C.1998 wage odors detected when arrivi	BAS PER	TOWN F	
	Sewer (locate on site plan):			
_	elow grade:			2
•	of construction:			feet
☐ cast i	ron 🛛 40 PVC	other (e	explain):	
Distance	from private water supply well c	r suction line	e:	> 100'
Commer	nts (on condition of joints, venting	g, evidence d	of leakage,	
	NO ADDEADO TO DE 121 O		NIDITION	
	NG APPEARS TO BE IN SO	OUND CO	ווטא	N.



### **Commonwealth of Massachusetts**

# Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

wner's Name					
	Sullivan's island	SC	29482	2/23/19	
ty/Town		State	Zip Code	Date of Inspe	ection
. Systen	n Information (cont.)	)			
Septic Ta	nk (locate on site plan):				
-	, ,			1.5	
Depth belo	ow grade:		fee	et	
Material o	f construction:				
X concre	te	☐ fiberglas	ss 🗌 po	yethylene	other (explain)
If topk is n	notal list ago:				
ii tank is n	netal, list age:		ye	ars	
Is age cor	nfirmed by a Certificate of Co	ompliance? (atta	ach a copy of	certificate)	☐ Yes ☐ No
Dimension	ns:		=	1500 GAL	•
Sludge de	epth:		-	8"	
•		of outlet too or	hofflo -	18"	
Distance i	rom top of sludge to bottom	or outlet tee or	baille	8"	
Scum thic	kness		=	4"	
Distance f	rom top of scum to top of ou	utlet tee or baffle	) -	4	
Distance f	rom bottom of scum to botto	om of outlet tee	or baffle -	12"	
	dimensions determined?		_	graduated o	lipstick
	s (on pumping recommenda	ations inlet and	outlet tee or h	affle condition	structural integrity
	ls as related to outlet invert,			ame condition,	Structural integrity,
THE SEP	TIC TANK AND BAFFL	ES WERE F	OUND IN S	OUND CON	DITION.
A MAINTI	ENANCE PUMPING IS	RECOMMN	EDED AT TI	HIS TIME. R	ISERS
WERE AL	DDED TO THE TANK I	NLET AND O	UTLET MAN	NHOLES CO	OVERS



#### **Commonwealth of Massachusetts**

# Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Prop	erty Address	Sandra Spielvogel F	Re. Tr. c/o Will	Spielvogel	2430 Rave	n Dr
	er's Name	Sullivan's island	SC	29482	2/23/19	
_	Svstem	Information (cont	State	Zip Code	Date of Insp	Dection
7.	_	<b>p</b> (locate on site plan):	N/A			
	Depth below		IW/A	=		
	•				feet	
		construction:	<b>—</b>			
	□ concrete	e metal	fiberglas	s ∟p	olyethylene	other (explain):
	Dimensions	:		-		
	Scum thickr	ness		=		
	Distance fro	om top of scum to top of c	outlet tee or baffle	-		
	Distance fro	om bottom of scum to bott	tom of outlet tee o	or baffle		
	Date of last	pumping:		-	Date	
		(on pumping recommend			affle condition	n, structural integrity,
	ilquiu ieveis	as related to outlet inver	i, evidence of lear	kage, etc.).		
						21/2
3.	Tight or Ho	olding Tank (tank must b	e pumped at time	of inspection	n) (locate on s	ite plan): N/A
	Depth below	w grade:		=		
	Material of	construction:				
	☐ concrete	e 🔲 metal	☐ fiberglas	s 🗆 p	olyethylene	other (explain):
	Dimensions	::	_			
	Capacity:		<u>_</u>	allons		
	Design Flov	v:		allons per day		



#### **Commonwealth of Massachusetts**

# Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Prop	perty Address	Sandra Spielvogel	Re. Tr. c/o W	/ill Spielvogel	2430 R	aven Dr	
	ner's Name /Town	Sullivan's island	SC State	29482 Zip Code		3/19 f Inspection	
		Information (con		Zip Code	Date o	inspection	
8.	Tight or Ho	olding Tank (cont.)	N/A				
	Alarm prese	ent:		☐ Yes ☐	No		
	Alarm level:			Alarm in working	g order:	☐ Yes	☐ No
	Date of last	pumping:		Date			
	Comments	(condition of alarm and f	loat switches, e	tc.):			
	* Attach cop	by of current pumping co	ntract (required	). Is copy attache	ed?	☐ Yes	☐ No
9.	Distribution	n Box (if present must b	e opened) (loca	te on site plan):			
	Depth of liqu	uid level above outlet inv	vert		0"		
		(note if box is level and of leakage into or out of both		ıtlets equal, any	evidence	of solids car	ryover, any
	THE D-	BOX WAS FOUND	IN SOUND A	ND LEVEL C	ONDITI	ON.	
	-						



# Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

#53 Tia Anna Ln Oak Bluffs Map 13 lot 13

Owner information is required for every page.

Property Address	Sandra Spielvogel Re	. Tr. c/o Wil	l Spielvogel	2430 Raven Dr	
Owner's Name					
	Sullivan's island	SC	29482	2/23/19	
City/Town		State	Zip Code	Date of Inspection	

	ner's Name	Sullivan's island	SC	29482	2/23/19	
	/Town		State	Zip Code	Date of Inspe	ection
D.	System	n Information (cont.)				
10.	Pump Cha	amber (locate on site plan):	N/A			
	Pumps in	working order:			☐ Yes	□ No*
	Alarms in	working order:			☐ Yes	□ No*
	Comments	s (note condition of pump chan	nber, conditi	ion of pumps ar	nd appurtenan	ces, etc.):
	* If pumps	or alarms are not in working of	order, system	n is a conditiona	al pass.	
11.	Soil Abso	rption System (SAS) (locate	on site plan,	excavation not	required):	
	If SAS not	located, explain why:				
	Type:					
		leaching pits		number:		
		leaching chambers		number:		
		leaching galleries		number:		
	X	leaching trenches		number,	length:	3-31' LONG
		leaching fields		number,	dimensions:	
		overflow cesspool		number:		
		innovative/alternative sys	tem			
		Type/name of technology	:			



### **Commonwealth of Massachusetts**

# Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Sandra Spielvogel Re	. Ir. c/o Will	Spielvogel 2	2430 Raven	Dr
Owner's Name Sullivan's island	SC	29482	2/23/19	
City/Town	State	Zip Code	Date of Inspe	ection
D. System Information (cont.)				
Soil Absorption System (SAS) (cont.	)			
Comments (note condition of soil, sign vegetation, etc.):	s of hydraulic	failure, level of	ponding, dam	o soil, condition of
THE LEACHING SYSTEM WAS I	EVALUATE	BASED OF	SITE EXA	MINATION AND
OBSERVATIONS MADE AT THE	D-BOX. NO	EVIDENCE	OF HYDRA	ULIC FAILURE
WAS OBSERVED. SOILS ARE V	VELL DRAI	NED SAND.	VEGETATI	ON WAS NORM
Cesspools (cesspool must be pumper)	d as part of ins	enection) (locat	e on site plan):	N/A
	u as part of ins	spection) (locat	e on site plan).	. 111/71
Number and configuration				
Depth – top of liquid to inlet invert				
Depth of solids layer				
Depth of scum layer				
Dimensions of cesspool				
Materials of construction				
Indication of groundwater inflow			☐ Yes	☐ No
	s of hydraulic	failure, level of	ponding, cond	ition of vegetation,
Comments (note condition of soil, sign etc.):	•			



### **Commonwealth of Massachusetts**

# Title 5 Official Inspection Form Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

Property Address	Sandra Spie	lvogel Re.	Tr. c/o W	II Spielvogel	2430 Raven Dr
Owner's Name	Sullivan's isl	and	SC	29482	2/23/19
City/Town			State	Zip Code	Date of Inspection
D. System	Information	(cont.)			
13. <b>Privy</b> (locat	e on site plan):	N/A			
Materials of	construction:		-		
Dimensions	;				
Depth of so	lids				
Comments etc.):	(note condition of	soil, signs of	f hydraulic f	ailure, level of p	conding, condition of vegetation,
-					



### Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments #53 Tia Anna Ln Oak Bluffs Map 13 lot 13

Owner information is required for every page.

Property Address	Sandra Spielvogel Re. Tr.	c/o Will S	Spielvogel 243	30 Raven Dr
Owner's Name	Sullivan's island	SC	29482	2/23/19
	Julivari S Islariu	30	23402	2/23/13
City/Town		State	Zip Code	Date of Inspection

### **D. System Information** (cont.)

#### 14. Sketch Of Sewage Disposal System:

Provide a view of the sewage disposal system, including ties to at least two permanent reference landmarks or benchmarks. Locate all wells within 100 feet. Locate where public water supply enters the building. Check one of the boxes below:

X hand-sketch in the area below drawing attached separately

SCHEDULE OF DISTANCES: A-1=30' B-1=36' A-2=33' B-2=32' A-3=54.5' B-3=55.5'	FRONT OF DWELLING  entry BL  2 1 septic tank covers @ grade
	leaching trenches  D-Box cover @ 1' depth
	to Tia Anna Lane



page.

#### **Commonwealth of Massachusetts**

## Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments #53 Tia Anna Ln Oak Bluffs Map 13 lot 13

wner's Name	Sullivan's island	SC	29482	2/23/19
ity/Town		State	Zip Code	Date of Inspection
D. System	Information (cont.)			
5. Site Exam	:			
X Check	Slope			
X Surfac	e water			
X Check	cellar			
X Shallov	w wells			
Estimated	depth to high ground water:		feet	10
Please ind	icate all methods used to de	termine the hi	gh ground wat	er elevation:
X	Obtained from system des	ign plans on r	ecord	8 (Sourati)
	If checked, date of design	plan reviewed		
X	Observed site (abutting pro	operty/observa	ation hole withi	n 150 feet of SAS)
	Checked with local Board	of Health - exp	olain:	

THE SITE RESIDES AT AN ELEVATION OF APPROXIMATELY 15 MSL.

Checked with local excavators, installers - (attach documentation)

USGS GROUNDWATER STUDIES FOR THE AREA INDICATE GROUNDWATER

ELEVATION AT APPROXIMATELY 5 MSL.

Accessed USGS database - explain:

USGS GROUNDWATER WEBSITE

You **must** describe how you established the high ground water elevation:

Before filing this Inspection Report, please see Report Completeness Checklist on next page.

X



#### **Commonwealth of Massachusetts**

## Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments #53 Tia Anna Ln Oak Bluffs Map 13 lot 13

Property Address	Sandra Spielvogel Re. Tr. c/o Will Spielvogel 2430 Raven Dr				
Owner's Name					
	Sullivan's island	SC	29482	2/23/19	
City/Town		State	Zip Code	Date of Inspection	

### **E. Report Completeness Checklist**

#### Complete all applicable sections of this form inclusive of:

- A. Inspector Information: Complete all fields in this section.
- X B. Certification: Signed & Dated and 1, 2, 3, or 4 checked
- X C. Inspection Summary:
  - 1, 2, 3, or 5 completed as appropriate
  - 4 (Failure Criteria) and 6 (Checklist) completed
- D. System Information:
  - For 8: Tight/Holding Tank Pumping contract attached
  - For 14: Sketch of Sewage Disposal System drawn on pg. 16 or attached
  - For 15: Explanation of estimated depth to high groundwater included