

MANCHESTER-BY-THE-SEA

BOARD OF HEALTH

TOWN HALL - 10 CENTRAL STREET

Manchester-by-the-Sea, Massachusetts 01944-1399 Telephone (978) 526-7385 FAX (978) 526-2009

May 7, 2024

Johathan and Ann Ranger 23 Forest Lane Manchester-by-the-Sea, MA 01944

NOTIFICATION TO OWNER

Upon receipt of the Title 5 Inspection Report for the onsite sewage disposal system at:

Property Address: 23 FOREST LANE, MANCHESTER-BY-THE-SEA

Property Owner: RANGER, JONATHAN N and ANN E

Licensed Title 5 Inspector: Benjamin Prescott, D.F. Clark, Inc. SI# 13851

The Title 5 Inspection Report dated: <u>2/27/2024</u> has <u>CONDITIONALLY PASSED</u>

NOTES:

An amended Title 5 Inspection Report page 3 of 18, stating the 2 outlets in the distribution box need to be capped to resolve the infiltration and complete the Conditions of the Title 5 Inspection. The work was completed by D.F. Clark on April 10, 2024. The Conditional Pass is resolved.

The Board of Health DID NOT find the septic system, as it is now used, to constitute a danger to the public health and subsequently did not order its repair/replacement at this time.

Reviewing Board of Health Agent:

Wendy Hansbury RS, Public Health Director

THIS INSPECTION reflects the <u>present</u> condition of the sanitary disposal system and is not any guarantee as to the life or future condition of said system. A passing Title 5 Inspection Report with pump receipts for three years within each calendar year may be used for sale of property. (Explanation: If there is a potential that your home will be sold within three years, you MUST have the septic tank pumped once a year, within a year of the date of the approved Title 5 Inspection Report for each of the three years. This allows the sale to occur with the use of the pumping reports and annual receipts abates the need for a "Title 5 System Inspection" for a property transfer within three years of the passing inspection, otherwise a passing Title 5 Inspection Report is only good for two years.)



D.F. CLARK, INC.



March 14, 2024

Jonathan & Ann Ranger 23 Forest Lane Manchester-by-the-Sea, MA 01944

RE:

Title 5 Inspection

23 Forest Lane, Manchester-by-the-Sea

Dear Jonathan & Ann:

Please find enclosed the Subsurface Sewage Disposal System Inspection Report for the above-referenced property. As noted on Part B (Certification) of the report, the system <u>Conditionally Passes</u> the inspection criteria. The distribution box is structurally unsound and needs to be replaced.

Thank you for allowing us to be of service to you on this project. Please contact us if you have any questions regarding this matter.

Sincerely,

Benjamin "Jamie" Prescott

Sim Olym

Title 5 Inspector

Enclosure

cc: Manchester Board of Health w/ review fee

D.F. Clark, Inc. file





Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

23 Forest Lane		*****		
Property Address				
Jonathan & Ann Ranger				
Owner's Name				
Manchester-by-the-Sea	MA	01944	February 27, 2024	
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			
Benjamin "Jamie" Prescott			
Name of Inspector			
D.F. Clark, Inc.			
Company Name			
22 Mitchell Road, PO Box 265		· Littary · · · · · · · · · · · · · · · · · · ·	
Company Address			
Ipswich	MA	01938	c
City/Town	State	Zip Code	
(978) 356-5638	SI13851		
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:

- Passes
- Needs Further Evaluation by the Local Approving Authority
- 4. 🗌 Fails

Sun Oul

February 27 2024

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.



Owner information is required for every page.

Commonwealth of Massachusetts

Jon	erty Address				
	athan & Ann Ranger				
	er's Name		MA	01944	February 27, 2024
	nchester-by-the-Sea Town		State	Zip Code	Date of Inspection
	Inspection Summ	arv			
C.	inspection outilit	iai y			
	Inspection Summary: Con	nplete 1, 2, 3, or 5	and all c	of 4 and 6.	
1)	System Passes:				
	I have not found any in 310 CMR 15.303 o indicated below.	information which i r in 310 CMR 15.3	ndicates 04 exist.	that any of the Any failure cri	e failure criteria described teria not evaluated are
	Comments:				
	•				
	AND THE PROPERTY OF THE PROPER				
2)	System Conditionally P	asses:			
~- j	One or more system replaced or repaired the Board of Health,	. The system, upor	escribed n comple	in the "Condition tion of the repl	onal Pass" section need to be acement or repair, as approved by
<i>~</i> j	replaced or repaired. the Board of Health,	. The system, upor will pass. "no" or "not determ	omple	tion of the repl	onal Pass" section need to be acement or repair, as approved by e following statements. If "not
<i>~</i>	replaced or repaired the Board of Health, Check the box for "yes", determined," please exp	The system, upor will pass. "no" or "not determ lain. and over 20 years	n comple nined" (Y old* or t exfiltratio	tion of the repl , N, ND) for the he septic tank on or tank failur	acement or repair, as approved by
~1	replaced or repaired the Board of Health, Check the box for "yes", determined," please exp The septic tank is metal unsound, exhibits substainspection if the existing Health.	The system, upor will pass. "no" or "not determ lain. and over 20 years antial infiltration or tank is replaced with pass inspection if	nined" (Y old* or t exfiltration ith a con	tion of the repl , N, ND) for the he septic tank on or tank failur nplying septic t	e following statements. If "not (whether metal or not) is structurally re is imminent. System will pass ank as approved by the Board of not leaking and if a Certificate of
~;	replaced or repaired the Board of Health, Check the box for "yes", determined," please exp. The septic tank is metal unsound, exhibits substainspection if the existing Health.	The system, upor will pass. "no" or "not determ lain. and over 20 years antial infiltration or tank is replaced with pass inspection if	nined" (Y old* or t exfiltration ith a cont it is structure	tion of the replication of the heseptic tank on or tank failure applying septic to the cturally sound, years old is av	e following statements. If "not (whether metal or not) is structurally re is imminent. System will pass ank as approved by the Board of not leaking and if a Certificate of
~;	replaced or repaired the Board of Health, Check the box for "yes", determined," please exp The septic tank is metal unsound, exhibits substainspection if the existing Health. * A metal septic tank will Compliance indicating the	The system, upor will pass. "no" or "not determ lain. and over 20 years antial infiltration or a tank is replaced will pass inspection if nat the tank is less	nined" (Y old* or t exfiltration ith a cont it is structure	tion of the replication of the heseptic tank on or tank failure applying septic to the cturally sound, years old is av	e following statements. If "not (whether metal or not) is structurally re is imminent. System will pass ank as approved by the Board of not leaking and if a Certificate of
~;	replaced or repaired the Board of Health, Check the box for "yes", determined," please exp The septic tank is metal unsound, exhibits substainspection if the existing Health. * A metal septic tank will Compliance indicating the	The system, upor will pass. "no" or "not determ lain. and over 20 years antial infiltration or a tank is replaced will pass inspection if nat the tank is less	nined" (Y old* or t exfiltration ith a cont it is structure	tion of the replication of the heseptic tank on or tank failure applying septic to the cturally sound, years old is av	e following statements. If "not (whether metal or not) is structurally re is imminent. System will pass ank as approved by the Board of not leaking and if a Certificate of
~,	replaced or repaired the Board of Health, Check the box for "yes", determined," please exp The septic tank is metal unsound, exhibits substainspection if the existing Health. * A metal septic tank will Compliance indicating the	The system, upor will pass. "no" or "not determ lain. and over 20 years antial infiltration or a tank is replaced will pass inspection if nat the tank is less	nined" (Y old* or t exfiltration ith a cont it is structure	tion of the replication of the heseptic tank on or tank failure applying septic to the cturally sound, years old is av	e following statements. If "not (whether metal or not) is structurally re is imminent. System will pass ank as approved by the Board of not leaking and if a Certificate of
~,	replaced or repaired the Board of Health, Check the box for "yes", determined," please exp The septic tank is metal unsound, exhibits substainspection if the existing Health. * A metal septic tank will Compliance indicating the	The system, upor will pass. "no" or "not determ lain. and over 20 years antial infiltration or a tank is replaced will pass inspection if nat the tank is less	nined" (Y old* or t exfiltration ith a cont it is structure	tion of the replication of the heseptic tank on or tank failure applying septic to the cturally sound, years old is av	e following statements. If "not (whether metal or not) is structurally re is imminent. System will pass ank as approved by the Board of not leaking and if a Certificate of



Commonwealth of Massachusetts

		st Lane Address					
Jor	atha	an & An	n Ranger				
		Name	the Coe	MA	0194	1./	February 27, 2024
Manchester-by-the-Sea City/Town				State Zip			Date of Inspection
		-	ion Summary (cont.)				
2)	Sys		onditionally Passes (cont.):		_		
			Chamber pumps/alarms not oper /alarms are repaired.	ational. S	System v	will pass	with Board of Health approval if
		to brok	vation of sewage backup or breal ten or obstructed pipe(s) or due to repection if (with approval of Boa	o a broke	en, settle	ic water l ed or une	level in the distribution box due even distribution box. System will
			broken pipe(s) are replaced		☐ Y	□N	☐ ND (Explain below):
			obstruction is removed		□ Y	□и	☐ ND (Explain below):
		\boxtimes	distribution box is leveled or rep	olaced	X Y	□ N	□ ND (Explain below):
	Th	e distrib	ution box ("d-box") is structurally	unsound	d and ne	eds to b	e replaced. (See attached
	pho	otos.)					
	•						
		Lary MAX VY					
		The sy	ystem required pumping more than will pass inspection if (with app	an 4 time roval of t	s a year he Boar	due to b	proken or obstructed pipe(s). The lth):
			broken pipe(s) are replaced		□ Y	□N	☐ ND (Explain below):
			obstruction is removed		□ Y	□N	☐ ND (Explain below):
3)	F⊔	ırther E	valuation is Required by the B	oard of l	Health:		
-,		Condi	itions exist which require further existem is failing to protect public h	evaluatio	n by the		
		15.30	estem will pass unless Board o 3(1)(b) that the system is not fo y and the environment:	f Health unctioni	determi ng in a i	ines in a manner	iccordance with 310 CMR which will protect public health

Commonwealth of Massachusetts

	orest Lane	l		· · · · · · · · · · · · · · · · · · ·		
	erty Address	n Dongor				
	than & An r's Name	ii Kangei				
	chester-by	-the-Sea		MA	01944	February 27, 2024
City/T	own			State	Zip Code	Date of Inspection
C.	Inspect	ion Su	mmary (cont.)			
		Cesspoo	ol or privy is within 50) feet of a si	urface water	
		Cesspoo	ol or privy is within 50	0 feet of a b	ordering veget	ated wetland or a salt marsh
	deterr	nines tha	fail unless the Boar t the system is fund ronment:	rd of Health ctioning in	n (and Public \ a manner that	Water Supplier, if any) protects the public health,
	100 fe	et of a sui	face water supply or	r tributary to	a surface water	SAS) and the SAS is within er supply.
	supply	<i>i</i> .				nin a Zone 1 of a public water
	supply	/ well. ne system		d SAS and		s than 100 feet but 50 feet or
	Metho	nd used to	determine distance:			
	coliform b to or less	acteria ind	dicates absent and th m, provided that no c	ne presence	of ammonia n	EP certified laboratory, for fecal itrogen and nitrate nitrogen is equal gered. A copy of the analysis must
	c. Other:					
	galana .					
4)	System	Failure C	riteria Applicable to	All Systen	ns:	
•,	-		e "Yes" or "No" to			<u>all</u> inspections:
	Yes	No				
		\boxtimes	clogged SAS or o	cesspool		mponent due to overloaded or
		\boxtimes	Discharge or pon due to an overloa	nding of efflu aded or clog	ent to the surfa ged SAS or ce	ace of the ground or surface waters sspool



Commonwealth of Massachusetts

Title 5 Official Inspection Form

S

Sub	surface S	ewage Dis	posal System Form - Not f	for V	oluntary Asses	sments
	orest Lane	9	Long to the state of the state			
•	erty Address	D				
	athan & Ar er's Name	in Kanger				
Иaг	nchester-by	y-the-Sea	MA		01944	February 27, 2024 Date of Inspection
	Town		State)	Zip Code	Date of inspection
C.	inspec	tion Su	mmary (cont.)			
4)	System F	ailure Crit	eria Applicable to All Syst	ems	:: (cont.)	
	Yes	No				
		\boxtimes	or cloqued SAS or cesspoo	ol		outlet invert due to an overloaded
		\boxtimes	than 1/2 day flow			invert or available volume is less
		\boxtimes	obstructed pipe(s). Number	er of	times pumped:	
		\boxtimes	• •			elow high ground water elevation.
		\boxtimes	tributary to a surface wate	r su	oply.	feet of a surface water supply or
		\boxtimes	Any portion of a cesspool well.	or p	rivy is within a 2	Zone 1 of a public water supply
		\boxtimes	Any portion of a cesspool	or p	rivy is within 50	feet of a private water supply well
		⊠	from a private water suppli system passes if the we laboratory, for fecal coli of ammonia nitrogen an	iy wa il wa forn d ni ailu	ell with no acce ater analysis, ¡ n bacteria indi trate nitrogen re criteria are t	n 100 feet but greater than 50 feet ptable water quality analysis. [This performed at a DEP certified cates absent and the presence is equal to or less than 5 ppm, triggered. A copy of the analysis this form.]
		\boxtimes	The system is a cesspool 10,000 gpd.	ser	ving a facility w	ith a design flow of 2000 gpd-
			The system <u>fails</u> . I have	l in 3 itact	310 CMR 15.30 the Board of H	e or more of the above failure 3, therefore the system fails. The ealth to determine what will be
5)	design to For large	flow of 10.	000 gpd to 15,000 gpd. you must indicate either "ye			must serve a facility with a
	Yes	No				
			the system is within 400	feet	of a surface dri	nking water supply
			the system is within 200	feet	of a tributary to	a surface drinking water supply
	[]		the system is located in a	a niti	rogen sensitive	area (Interim Wellhead Protection

Area - IWPA) or a mapped Zone II of a public water supply well

Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

23 Forest Lane				
Property Address				
Jonathan & Ann Ranger				
Owner's Name				
Manchester-by-the-Sea	MA	01944	February 27, 2024	
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	
\boxtimes		Pumping information was provided by the owner, occupant, or Board of Health
	\boxtimes	Were any of the system components pumped out in the previous two weeks?
\boxtimes		Has the system received normal flows in the previous two week period?
	\boxtimes	Have large volumes of water been introduced to the system recently or as part of this inspection?
\boxtimes		Were as built plans of the system obtained and examined? (If they were not available note as N/A)
\boxtimes		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?
\boxtimes		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:
\boxtimes		Existing information. For example, a plan at the Board of Health.
\boxtimes		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

3 F	orest Lane					
•	erty Address					
	athan & Ann Ranger					
	er's Name nchester-by-the-Sea	MA	01944	February 27,	2024	
	Town	Date of Inspectio				
	System Information					
	Residential Flow Conditions:					
	Number of bedrooms (design):	Four (4)	Number of be	drooms (actual):	Four (4)	
	DESIGN flow based on 310 CMR	15.203 (for exam	nple: 110 gpd x #	f of bedrooms):	440 gpd	
	Description: Per design plan dated October 31,	2006 (rev. Janu	ary 17, 2007 an	d March 6, 2007)	prepared by	
	Gateway Consultants (4 bedrooms	x 110 gpd per l	oedroom = 440 g	pd)		
	Number of current residents:		Two (2)			
	Does residence have a garbage g		☐ Yes 🏻	No		
	Does residence have a water treat	tment unit?			☐ Yes ⊠	No
	If yes, discharges to:					
	Is laundry on a separate sewage sinformation in this report.)	system? (Include	e laundry system	inspection	☐ Yes ⊠	No
	Laundry system inspected?				☐ Yes ⊠	No
	Seasonal use?				☐ Yes ⊠	No
	Water meter readings, if available		337 gpd			
	Detail: February 15, 2022 - February 15,	by 730 days = 33	7 gallons per	day		
	Sump pump?				☐ Yes ⊠	No
	Last date of occupancy:				Currently occupied	



Commonwealth of Massachusetts

	Forest Lane erty Address	one-					
Jon Own	athan & Ann Ranger er's Name		0404		F-h	7 2024	
		MA State	01944 Zip Cod		February 2		
	System Information (cont.)						
2.	Commercial/Industrial Flow Conditions: Type of Establishment:		-				
	Design flow (based on 310 CMR 15.203):		-	Gallons pe	r day (gpd)		
	Basis of design flow (seats/persons/sq.ft., et	c.):	-				
	Grease trap present?					∐ Yes ∐	No
	Water treatment unit present?					☐ Yes ☐	No
	If yes, discharges to:						
	Industrial waste holding tank present?					☐ Yes ☐	No
	Non-sanitary waste discharged to the Title 5	system	า?			☐ Yes ☐	No
	Water meter readings, if available:				N. ////		<i></i>
	Last date of occupancy/use:			Date			
	Other (describe below):				war vi		
3.	Pumping Records:						
	Source of information:		r homeow rch of 202		system was	last pumped ir) ———
	Was system pumped as part of the inspect	ion?				Yes ⊠ No)
	If yes, volume pumped:	galle	ons		<u> </u>	- VALUE - P	
	How was quantity pumped determined?		 				
	Reason for pumping:	411	- and		- Lowers	AV. 1	444



Commonwealth of Massachusetts

roi	Forest Lane perty Address					
or	athan & Ann Ra	anger				
	ier's Name nchester-by-the	-Sea	MA	01944	Febru	ary 27, 2024
ty	Town		State	Zip Code	Date o	f Inspection
١.	System In	formation (cont.)				
	Type of Syste	m:				
	\boxtimes	Septic tank, distribution b	ox, soil abs	orption syste	m	
		Single cesspool				
		Overflow cesspool				
		Privy				
		Shared system (yes or ne	o) (if yes, at	tach previous	s inspectior	records, if any)
		Innovative/Alternative ted maintenance contract (to inspection of the I/A syst	be obtaine	d from syster	n owner) a	nd a copy of latest
		Tight tank. Attach a copy	of the DEF	approval.		
		Other (describe):				
		Other (describe): SoilAir System				
	Approximate :	SoilAir System	e installed (i		source of i	nformation:
		SoilAir System age of all components, date		f known) and		nformation:
	The as-built o	SoilAir System age of all components, date in file with the Board of Hea	ilth is dated	f known) and June 28, 200		
	The as-built o	SoilAir System age of all components, date	ilth is dated	f known) and June 28, 200		nformation: ☐ Yes ⊠ No
	The as-built o	SoilAir System age of all components, date in file with the Board of Hea	ilth is dated	f known) and June 28, 200)7	
	The as-built o	SoilAir System age of all components, date in file with the Board of Hea odors detected when arriv iver (locate on site plan):	ilth is dated	f known) and June 28, 200		
5.	The as-built o Were sewage	SoilAir System age of all components, date in file with the Board of Hea odors detected when arriv iver (locate on site plan): grade:	ilth is dated	f known) and June 28, 200	2.08	
i.	The as-built o Were sewage Building Sew Depth below	SoilAir System age of all components, date in file with the Board of Hea odors detected when arriv iver (locate on site plan): grade:	ilth is dated	f known) and June 28, 200	2.08	
j.	The as-built o Were sewage Building Sew Depth below of Material of co	SoilAir System age of all components, date in file with the Board of Hea odors detected when arriv ver (locate on site plan): grade: instruction:	ilth is dated ing at the si	f known) and June 28, 200 te? (explain):	2.08	
; .	The as-built o Were sewage Building Sew Depth below g Material of co Cast iron Distance from	SoilAir System age of all components, date in file with the Board of Hea odors detected when arriv ver (locate on site plan): grade: instruction:	ing at the si	f known) and June 28, 200 te? (explain): ne:	2.08 feet N/A feet	



Commonwealth of Massachusetts

B Forest Lane operty Address			4.2		
onathan & Ann Ranger					
vner's Name					
anchester-by-the-Sea	MA	01944		27, 2024	
ly/Town	State	Zip Code	Date of Ins	pection	
. System Information (cont.)					
Septic Tank (locate on site plan):					
Depth below grade:		_	1.33 eet		
Material of construction:					
⊠ concrete ☐ metal	fiberglas	ss 🗌 p	olyethylene	other (explain)	
If tank is metal, list age:		-	years		
			•	— —	
Is age confirmed by a Certificate of Cor	npliance? (att	ach a copy o	of certificate)	☐ Yes ☐ No	
			10' L x 5' W x	(4' D	
Dimensions:					
Sludge depth:	2 nd compa			tment = 10" rtment = 2"	
Distance from top of sludge to bottom of	of outlet tee or	baffle	1st compartm 2nd compartm	nent = 29"	
Scum thickness			1 st compartm 2 nd compartm	nent = 0"	
Distance from top of scum to top of out	let tee or baffl	e	1 st compartm 2nd compart		
Distance from bottom of scum to bottom			1 st compartm 2 nd compartn	ent = 34"	
How were dimensions determined?			Tape measu	re & Sludge Judge	
Comments (on pumping recommendat liquid levels as related to outlet invert, The septic tank is 16" below grade. The	evidence of le	akage, etc.):			
outlet and middle pass-through PVC te	es are in plac	e. There are	two (2) filters	and both were cleaned	
at the time of inspection.* There is no	evidence of le	akage and tl	ne tank appear	s to be structurally	
sound. Pumping is recommended base	ed on the guic	elines set fo	rth in 310 CMF	R 15.351.	
*D.F. Clark, Inc. recommends filters be	e cleaned on a	yearly basi	s to prevent filte	ers from clogging and	
possibly backing sewerage into reside	nce.				



Commonwealth of Massachusetts

	orest Lane erty Address					
•	athan & Ann Rang	er				
Own	er's Name			0.404.4	, t	07 0004
	ichester-by-the-Se	a	<u>MA</u> State	01944 Zip Code	February Date of Insp	
	Town System Info	rmation (cont.		2. p 0 0 0 0	Date of Mop	
7.	Grease Trap (loc	ate on site plan):				
	Depth below grad	e:			feet	
	Material of constr	uction:				
	☐ concrete	☐ metal	☐ fibergla	iss 🔲 i	polyethylene	other (explain):
	Dimensions:					
	Scum thickness					
	Distance from top	o of scum to top of c	outlet tee or baffl	e		
	Distance from bo	ttom of scum to bot	tom of outlet tee	or baffle		
	Date of last numr	oina:				A MUNICIPAL DE LA CASTALLA DE LA CAS
	Date of last pump	=	lations inlet and	Loutlet top er	Date	n, structural integrity,
	liquid levels as re	umping recommend elated to outlet inver	t, evidence of le	akage, etc.):	Dame Condition	n, structurar integrity,
			ADDITION ADDITION			
			A10000		MARTY Y MARKET I	
8.	Tight or Holding	g Tank (tank must t	oe pumped at tim	ne of inspection	on) (locate on s	site plan):
	Depth below gra	de:				
	Material of const	ruction:				
	☐ concrete	☐ metal	☐ fibergl	ass 🗌	polyethylene	other (explain):
	Dimensions:					
	Capacity:			gallons		
	Design Flow:			gallons per da	· · · · · · · · · · · · · · · · · · ·	



Commonwealth of Massachusetts

23 F	Forest Lane	Account to				····
	erty Address					
ATTIT	athan & Ann Ranger					
	er's Name	MA	01944	Febru	ary 27, 2024	
	nchester-by-the-Sea Town	State	Zip Code		Inspection	
	System Information (cont.)					
8.	Tight or Holding Tank (cont.)					
	Alarm present:		☐ Yes ☐	No		
	Alarm level:		Alarm in working	g order:	☐ Yes	☐ No
	Date of last pumping:		Date			48.57
	Comments (condition of alarm and float s	witches, e	etc.):			
	-					
	* Attach copy of current pumping contrac	t (require	d). Is copy attach	ned?	☐ Yes	☐ No
9.	Distribution Box (if present must be open	ened) (loc		:		
	Depth of liquid level above outlet invert		0"			
	Comments (note if box is level and distrite evidence of leakage into or out of box, et The distribution box ("d-box") is 20" below	tc.): w grade w	vith a riser to 11"	below gra	ade. The d-bo	ox measures
	16" x 16" and has a normal liquid level e	qualing th	e speed level in	erts. The	re is equal di	stribution
	between the four (4) lines leaving. There					
	are compromised and the d-box is no lor	nger struc	turally sound an	d needs to	o be replaced	(see
	attached photos).					



Commonwealth of Massachusetts

	n Ranger			· · · · · · · · · · · · · · · · · · ·	
wner's Name		840	04044	Echruory 2	7 2024
lanchester-by- ity/Town	the-Sea	MA State	01944 Zip Code	February 2 Date of Inspe	
	Information (cont.)				
-	mber (locate on site plan):				
•	vorking order:			☐ Yes	☐ No*
•	vorking order:			— □ Yes	No*
	·				
Comments	(note condition of pump chamb	er, conditi	on or pumps a	па аррипепат	des, etc./.
			•		
* If pumps	or alarms are not in working or	der, systen	n is a condition	iai pass.	
11. Soil Abso	rption System (SAS) (locate or	n site plan,	, excavation no	ot required):	
		n site plan,	, excavation no	ot required):	
	rption System (SAS) (locate or located, explain why:	n site plan,	, excavation no	ot required):	
		n site plan,	, excavation no	ot required):	
		n site plan,	, excavation no	ot required):	
		n site plan,	excavation no	ot required):	
		n site plan,	, excavation no	ot required):	
		n site plan,	, excavation no	ot required):	
		n site plan,	, excavation no	ot required):	
if SAS not		n site plan,	, excavation no		20
If SAS not	located, explain why:	n site plan,		•	32
If SAS not	located, explain why:	n site plan,	number		32
If SAS not	leaching pits leaching chambers	n site plan,	number number number		32
If SAS not	leaching pits leaching chambers leaching galleries	n site plan,	number number number number	:	One (1) @
Type:	leaching pits leaching chambers leaching galleries leaching trenches	n site plan,	number number number number	: r, length: r, dimensions:	
Type:	leaching pits leaching chambers leaching galleries leaching trenches leaching fields		number number number number	: r, length: r, dimensions:	One (1) @
Type:	leaching pits leaching chambers leaching galleries leaching trenches leaching fields overflow cesspool	em Soil	number number number number number	: r, length: r, dimensions:	One (1) @



Commonwealth of Massachusetts

23 Forest Lane			
Property Address			
Jonathan & Ann Ranger			
Owner's Name	MA	01944	February 27, 2024
Manchester-by-the-Sea City/Town	State	Zip Code	Date of Inspection
D. System Information (cont.			
D. System information (cont	•,		
11. Soil Absorption System (SAS) (cor	nt.)		
Comments (note condition of soil, sig		failure level of	nonding damp soil condition of
vegetation, etc.):	gris of rigaraciio	idilaro, iovoi oi	portaing, damp oon, container or
There is no ponding over the soil abs	sorption system	("SAS"). The v	regetation is consistent with the
rest of the property. The SAS consist	ts of four (4) rov	vs of infiltrator	chambers with eight (8) chambers
in each row. There are four (4) inspe	ction ports in th	e field, all to va	rying depths (35", 54", 37" and
42"). There is standing water in each	١.		
		\	to an eite plan).
12. Cesspools (cesspool must be pump	oed as part or in	spection) (loca	te on site plan).
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
Comments (note condition of soil, si	igns of hydraulic	failure, level o	of ponding, condition of vegetation,
etc.):			
	1		



Commonwealth of Massachusetts

23 Forest Lane			
Property Address			
Jonathan & Ann Ranger			
Owner's Name			
Manchester-by-the-Sea	MA	01944	February 27, 2024
City/Town	State	Zip Code	Date of Inspection
D. System Information (cont.)			
13. Privy (locate on site plan):			
Materials of construction:			
Dimensions			
Depth of solids			1.11.70
Comments (note condition of soil, signs etc.):	of hydraulic	failure, level of	f ponding, condition of vegetation,
			- LINNING



Commonwealth of Massachusetts

Title 5 Official Inspection Form

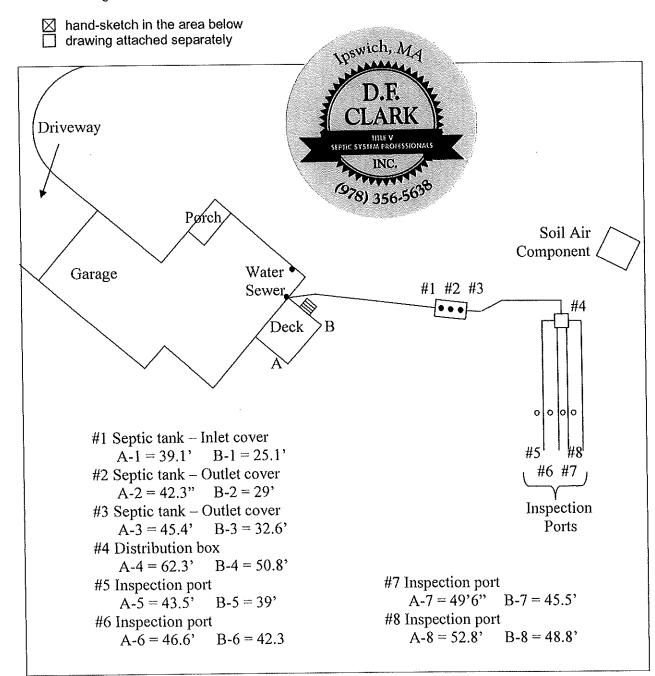
Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

23 Forest Lane		A AMERICAN AND A AMER		
Property Address				
Jonathan & Ann Ranger				
Owner's Name				
Manchester-by-the-Sea	MA	01944	February 27, 2024	
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:





Commonwealth of Massachusetts

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

23 Forest Lane				
Property Address				
Jonathan & Ann Ranger				
Owner's Name	A SOOM COLUMN TO THE STATE OF T			
Manchester-by-the-Sea	MA	01944	February 27, 2024	
City/Town	State	Zip Code	Date of Inspection	

D

	r-by-the-Sea	MA	01944	February 27, 2024
Town		State	Zip Code	Date of Inspection
Syste	em Information (cont.)			
Site Ex	am:			
⊠ Ch	eck Slope – Site is flat over system.			
⊠ Sui	rface water - None observed.			
⊠ Ch	eck cellar – Dry with no sump pump.			
⊠ Sha	allow wells - None located.			
Estima	ted depth to high ground water:		5 feet	
Please	indicate all methods used to determi	ne the hi	gh ground wat	er elevation:
\boxtimes	Obtained from system design p	lans on re	ecord	
	If checked, date of design plan	reviewed		31, 2006 (rev. January 15, 2007 n 6, 2007)
	Observed site (abutting propert	y/observa	ation hole withi	n 150 feet of SAS)
	Checked with local Board of He	alth - exp	olain:	
	Checked with local excavators,	installers	s - (attach docu	umentation)
	Accessed USGS database - ex	plain:		
You m	ust describe how you established the	e high gro	ound water ele	vation:
	sting was performed on January 10,			
the Bo	ard of Health. ESHGW was determin	ed to be	@ 60". T-1 an	d T-3 were dug and observed to
depth	of 108" with ESHGW @ 60". T-4 also	had ESI	HGW @ 60" w	hen dug and observed to a depth
of 106	". T-2 was dug and observed to 120"	with ESF	HGW @ 72". P	er the design plan there is 5' of
	ation between the ESHGW @ elevati	on 03 an	d battam of the	s SAS @ alovation 08

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



Commonwealth of Massachusetts

Title 5 Official Inspection Form

Subsurface Sewage Disposal System Form - Not for Voluntary Assessments

23 Forest Lane				
Property Address				
Jonathan & Ann Ranger				
Owner's Name				
Manchester-by-the-Sea	MA	01944	February 27, 2024	
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.
- ☑ B. Certification: Signed & Dated and 1, 2, 3, or 4 checked
- - 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







Customer Transaction Summary

Customer Information

Account No: 801698
JONATHAN RANGER
23 FOREST LANE
MANCHESTER MA 01944

Location Information

Location No: 0917200 23 FOREST LANE MANCHESTER, MA 01944

Date	Type	More Info	Reading		Usage	Prior Balance	Transaction Amount	Balance
05/16/2018	Charge	04/11/2018	3673	1	3900	0.00	236.84	236.84
06/18/2018	Payment	CHECK				236.84	-236.84	0.00
08/15/2018	Charge	07/05/2018	3737	1	6400	0.00	399,19	399.19
09/17/2018	Payment	CHECK				399.19	-399.19	0.00
11/15/2018	Charge	10/03/2018	3820	1	8300	0.00	550.11	550.11
12/18/2018	Payment	CHECK				550.11	-550.11	0.00
02/15/2019	Charge	01/28/2019	3889	0	6900	0.00	450.01	450.01
93/18/2019	Payment	CHECK				450.01	-450.01	0.00
05/15/2019	Charge	04/10/2019	3930	1	4100	0.00	258.93	258.93
06/18/2019	Payment	CHECK				258.93	-258.93	0.00
08/15/2019	Charge	07/12/2019	4010	1	8000	0.00	548.69	548.69
09/17/2019	Payment	CHECK				548.69	-548.69	0.00
11/15/2019	Charge	10/30/2019	4117	0	10700	0.00	749.03	749.03
12/13/2019	Payment	CHECK				749.03	-749.03	0.00
02/15/2020	Charge	01/08/2020	4148	1	3100	0.00	200,45	200.45
03/18/2020	Payment	CHECK				200.45	-200.45	0.00
05/15/2020	Charge	04/06/2020	4191	}	4300	0.00	282.41	282.41
06/18/2020	Payment	CHECK				282.41	-282.41	0.00
08/17/2020	Charge	07/15/2020	4298	1	10700	0.00	749.03	749.03
09/17/2020	Payment	CHECK				749.03	-749.03	0.00
11/16/2020	Charge	10/06/2020	4372	1	7400	0.00	512.97	512.97
12/15/2020	Payment	CHECK		·	- , , -	512.97	-512,97	0.00
02/16/2021	Charge	01/07/2021	4418	1	4600	0.00	308.17	308.17
03/15/2021	Payment	CHECK		•	1000	308.17	-308.17	0.00
05/17/2021	Charge	04/07/2021	4468	1	5000	0.00	335.97	335.97
06/16/2021	Payment	CHECK		•		335.97	-335.97	0.00
08-16/2021	Charge	07/07/2021	4521	1	5300	0.00	356.82	356.82
09:16/2021	Payment	CHECK	1321	•	3300	356.82	-356.82	0.00
11/15/2021	Charge	10/05/2021	4547	1	2600	0.00	172.99	172.99
12/10/2021	Payment	CHECK	4547	•	2000	172.99	-172.99	0.00
02/15/2022	Charge	01/04/2022	4566	1	1900	0.00	123.22	123.22
03/18/2022	Payment	CHECK	4,700	1	1700	123.22	-123.22	0.00
	=	04/05/2022	4587	,	2100	0.00	137.44	137.44
05/16/2022	Charge	CHECK	4307	1	2100	137.44	-137.44	0.00
06/14/2 022 08/15/2 022	Payment Charge	07/14/2022	4653	1	6600	0.00	462.88	462,88
09/19/2022	Payment	CHECK	4033	,	0000	462.88	-462.88	0.00
11/15/2022	Charge	10/06/2022	4704	1	5100	0.00	361.11	361.11
	=	CHECK	4704	ι	3100	361.11	-361.11	0.00
12/14/2022	Payment	01/05/2023	4742	1	3800	0.00	265.95	265.95
02/15/2023	Charge	CHECK	4/42	•	3600	265.95	-265.95	0.00
03/16/2023	Payment		4702	τ	4100	0.00		
05/15/2023	Charge	04/05/2023	4783	I	4100	287.91	287.91 -287.91	287.91
06/14/2023	Payment	CHECK	4020	1	4000			0.00
08/15/2023	Charge	07/06/2023	4832	I	4900	0.00	346.47	346.47
09/25/2023	Payment	CHECK	4070	1	2700	346.47	-346.47	0.00
11/15/2023	Charge	10/04/2023	4868	1	3600	0.00	257.45	257.45
12/21/2023	Payment	CHECK				257.45	-257.45	0.00 Page
02/27/2024 03	:57:03 PM	F = First Bill	L = Fir	al Bill	U = Unclos	ed Transaction	ſ	Page



Customer Transaction Summary

Customer Information

Account No: 801698 JONATHAN RANGER 23 FOREST LANE MANCHESTER, MA 01944 **Location Information**

Location No: 0917200 23 FOREST LANE

MANCHESTER, MA 01944

						Iransaction	
Date	Туре	More Info	Reading	Usage	Prior Balance	Amount	Balance
02/15/2024	Charge	01/11/2024	4895 1	2700	0.00	189.95	189.95



SOIL AIR SYSTEM **ROUTINE INSPECTION**

JAIE	December 14,	2023	OIEMIIO	R: Christop		
		SYSTEM STATU	'S			
Septic Tank		1st Compartment				
Effluent Fil		O.k., cleaned	d O.k., cle			
Scum Deptl		2"/48"	0"/4	8"		
Sludge Dep	th:	9"/48"				
		(Measured on I	December 14,	2023)		
nspect check v	alve	Yes				
Soil Air Panel Soil Air:		3.24 amps				
oil Air Filter		Cleaned				
nspection port	#1	#2	#3	#4		
iquid level	8"	12"	24"	3"		
	avity to D-Box.	O4a - 4	•			



May 20, 2022

Mr. & Mrs. Jonathan Ranger 23 Forest Lane Manchester-by-the-Sea 01944

RE:

Maintenance and Service Contract for the Soil Air system

located at 23 Forest Lane, Manchester-by-the-Sea

Dear Jonathan & Ann:

Clear Water Industries proposes to provide the service and maintenance for the Soil Air system located at the above referenced address. The following maintenance and service schedule is for the next two (2) years of operation commencing upon receipt of signed contract and annual cost received in full.

Scheduled Annual Service:

Annual Cost: \$230.00

(Note: All covers and access ports must be to grade to allow for maintenance.)

- Check sludge and scum depth in the 1500 gallon septic tank. 1.
- 2. Clean the effluent filter in the septic tank.
- 3. Check panel and alarm system.
- Check float switch in the septic tank. 4
- Check the leach field inspection port for ponding. 5.
- Check Soil Air Blower unit for proper operation. 6.
- Prepare report of findings including recommendations and any problems encountered, as 7. required by MA DEP Approval for the Soil Air System.

Emer ency service:

Emergency service calls will be billed at the following rates for the first two (2) hours & thereafter, with the stated hourly rate:

*Monday through Friday 7am - 3:30pm:	1 st 2 hrs.	Hourly
*Monday through Friday 3:30pm - 7am:	\$200	\$100
*Saturday & Sunday:	\$300	\$150
outdiday & Sunday;	\$300	\$150.

I have read and agree with the above Scope of Work, including the granting of access to the subject property in order to conduct the required maintenance;

CWI's initials OFC Owner's initials



Page 2 Mr. & Mrs. Jonathan Ranger May 20, 2022

Certified technician:

The service technician shall be a Massachusetts Certified Operator. The certified operator will be Mark Cottrell, Mario Rosa, or Christopher Maskell.

Reporting requirements:

In accordance with Board of Health approval, Clear Water Industries will file annual reports as well as a review of any unscheduled service.

Sincerely,

Clear Water Industries

ourid 7. Clark (conto

David F. Clark

Manager

Acceptance by Owner:

Jonathan or Ann Ranger

7/28/22

Date

may electronically file of be shared with others;