MAIN OFFICE:

49 Herring Pond Road Buzzards Bay, MA 02532 TEL: (508) 833-0070 FAX: (508) 833-2282



NANTUCKET OFFICE:

19 Old South Road Nantucket, MA 02554 TEL: (508) 325-0044

www.brackeneng.com

RECEIVED

By Bourne Health Department at 4:17 pm, Nov 02, 2022

November 2, 2022

Bourne Board of Health Terri Guarino, RS, CHO 24 Perry Avenue Bourne, MA 02532

RE: Septic Upgrade

85 Salt Marsh Lane (Map 43.1, Parcel 83)

Dear Members of the Board:

On behalf of the Applicant, CNB Bristow LLC, please accept this letter as a request under local upgrade approval section 310 CMR 15.405.3(b) to install a tight tank at the above referenced property. As identified below, in more detail, it is the professional opinion of Bracken Engineering, Inc. (BEI) that no other feasible alternative to upgrade the system in accordance with 310 CMR 15.201 through 15.293 exists that will protect the health, safety and welfare of the environment and general public.

Outlined below are the site conditions precluding the installation of a soil absorption system, as well as a comprehensive alternatives analysis for the installation of a tight tank:

The existing groundwater elevation at the site is restrictive. Per monitoring well readings from the site, groundwater was found to be at elevation 2.7' (Approximately 2.1' below existing grade).

The existing parcel is approximately 21,716 s.f. and is made up of 12,855 s.f. of upland area, most of which falls within the 50-foot buffer zone to Salt Marsh. The Salt Marsh system occupies the remainder or the parcel and is adjacent to the Barlows Landing Conservation Area. Approximately 2,017 s.f. of the upland area is occupied by the existing dwelling and associated decks and steps. It is infeasible for the required soil absorption system, septic tank, required pre-treatment unit(s) and pump chamber to fit within the confines of the available space while maintaining necessary set-back distances to resource areas.

In summary, it would be detrimental to both environmental concerns and public health to propose a soil absorption at the above referenced locus. Any system proposed would provide only minimal separation between existing property lines, dwellings, and groundwater. As such, BEI is requesting that the Bourne Board of Health diverge from the goal of full compliance by granting the local upgrade approval requested above. The design allows for the best feasible upgrade within the borders of the lot, and has the least effect on public health, safety and the environment.



In addition to the above request, the following Local Upgrade Approval are requested in association with the proposed tight tank:

1. 15.405.1 (j) Local Upgrade Approval is requested for the reduction of a 12" separation from high groundwater to the inlet tee.

Enclosed are six (6) copies of the Variance Application, Existing and Proposed Nitrogen Loading Calculations, Subsurface Sewage Disposal Plan dated 10/18/2022, and \$125.00 for the Public Hearing Fee.

Thank you for your time and consideration on this matter. We look forward to reviewing this project with the Board of Health at the December 14, 2022 Public Hearing. Should you have any questions regarding this project or require any further information please contact the undersigned at either 508-833-0070 or zac@brackeneng.com or jason@brackeneng.com.

Sincerely,

BRACKEN ENGINEERING, INC.

Zachary L. Basinski, P.E., C.F.M.

Project Manager

Jason Heyer

Engineering Technician

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	\$200.00	
	Φ200.00	
FF		

COMMONWEALTH OF MASSACHUSETTS

Board of Health, Bourne , MA.

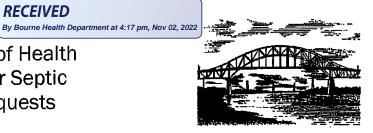
APPLICATION FOR DISPOSAL SYSTEM CONSTRUCTION PERMIT

Map/Parcel# Map 43.1, Parcel 83	Owner's Name CNB Bristow, LLC
	Address P.O. Box 1135, Pocasset, MA 02559
Lot#	Telephone# 201-401-3298
Installer's Name	Designer's Name Zachary L. Basinski, P.E, Bracken Engineering, Inc.
Address	Address 49 Herring Pond Road, Buzzards Bay, MA 02532
Telephone#	Telephone# 508-833-0070 (Agent)
Type of Building Single-family dwelling 2 per Assessor's R	Lot Size
Dwelling - No. of Bedrooms 2 per Assessor's R	
Other - Type of BuildingOther Fixtures	No. of persons Showers (), Cafeteria (
110	gpd Calculated design flow 220 GPD Design flow provided gp gp sper of sheets Revision Date ne, MA
Description of Soil(s) See Plan for full descript	Name of Soil Evaluator Robert E. Dewar, SE Date of Evaluation January 21, 2022
DESCRIPTION OF REPAIRS OR ALTERATIONS	Installation of a new 3,000 gallon tight tank.
The undersigned agrees to install the above description of the system in operation of the system in op	ribed Individual Sewage Disposal System in accordance with the provisions of TITLE 5 an ation until a Certificate of Compliance has been issued by the Board of Health. Date
nspections	
No	ALMIH OF MG
COMMO	ONWEALTH OF MASSACHUSETTS
Board	of Health,, MA. ZACHARY L. BASINSKI HASINSKI
	ONWEALTH OF MASSACHUSETTS of Health,, MA. DTIEICATE OF COMPLIANCE
CE	RTIFICATE OF COMPLIANCE
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1. Facility Name and Address:

Bourne Board of Health Application for Septic Variance Requests



In accordance with the established procedures of the Bourne Board of Health, this application for septic variances and waivers is relevant to requests for relief which have not been approved administratively and require approval at a public meeting. Please use the following application form for guidance on how to apply for variances and waivers which serve new construction, changes in use, or increases in flow to on-site sewage disposal systems with design flows of less than 10,000 gallons/ day.

RECEIVED

	Our and Nome				
_	Owner's Name	CNB Bristow LLC.			
-	Facility's Street Address	85 Salt Marsh Lane (Map 43.1, Parcel 83)			
-	Owner's Telephone Numb	per 201-401-3298			
-	Owner's E-mail Address	dukebhound@gmail.com			
-	Owner's Mailing Address	P.O. Box 1135, Bourne, MA 02559			
2. App	olicant or Preparer's Name	and Address (if different from above):			
	Preparer's Name Z	achary L. Basinski, PE, CFM			
•	Company	Bracken Engineering, Inc.			
-	Telephone Number 508-833-0070				
•	E-mail Address	zac@brackeneng.com			
•	Mailing Address	49 Herring Pond Road, Buzzards Bay			
•	State/ Zip Code	MA / 02532			
3. Typ	oe of Facility (check all tha	t apply):			
	☑ Residential ☐ Con	nmercial 🏻 Institutional 🗘 School 🗘 Industrial			
4. De	scribe Facility (i.e. single-fa	amily dwelling, 45 seat restaurant):			
	Single-family dwelling				
5. Typ	be of System Proposed (ch	eck all that apply): □ Conventional Title 5 □ I/A System			
	☐ Pumped System ☐	l Gravity System □ Pressure Dosed ሺ Other Tight Tank			

6. Describe the proposed septic system components: 3,00	0 gallon septic tank
7. Design Flow per 310 CMR 15.203 (in gallons/ day):	
Design flow of proposed system: 110 GPD @ 2 BDR	
Total design flow of facility: 220	
8. Enclose a letter of request for variances which makes refeand the Board Bourne of Health Regulations for which a various demonstrate compliance with 310 CMR 15.410, and to just of the individual case. Note that with regard to variances for provision from which a variance is sought must be shown to beneficial use of the subject property in order to be manifest compliance with the applicable regulations is not feasible, a that is at least equivalent to that provided under Title 5 and achieved without strict application of the regulations.	iance is sought. Please use this opportunity ustify the relevant facts and circumstances r new construction, enforcement of the deprive the applicant of substantially all tly unjust. Be sure to explain why full nd how a level of environmental protection
9. In order for this Application to be deemed complete, it mu	ust be accompanied by all of the following:
Application Fees paid to the Town of Bourne. Letter of request (see samples) Six sets of complete plans and specifications. One Nitrogen Loading Calculation Sheet(s) If abutter notification is required, one of each of t A copy of the certified list of abutters for abutter notification p Sample letter for abutter notification p Proof of certified mailing (receipts) me Proposals for installation of Innovative/ Alternative A copy of the Certification for Use inclusion Draft disclosure notice for the I/A tech Hydrogeologic data for all leaching facilities proposition Percentage of Increase Worksheet is required for	he following must be submitted: rom the Assessor's Department ostmarked 10 days prior to meeting date eting requirements of 310 CMR 15.405(2) re systems must be accompanied by: iding technology specific conditions nology to be recorded in the deed osed within 100ft of a wetland/ watercourse
10. Certification:	
"I certify under penalty of law that this document and all attable belief, are true, accurate, and complete. I am aware that the submitting false information, including, but not limited to, pedeliberate violations."	ere may be significant consequences for enalties or fine and/or imprisonment for
Facility Owner's Signature The Bereeving Suc - Ag	60X Date 10/24/2022
Print Name	
Signature of Preparer High Bricks Everyless,	[wc
Print Name Zachary L. Basinski, PE, CFM Bracken Engineering, Inc. (AGENT)	

-		For Office Use Only		
Completed Application F	Received:	Reviewe	d By:	
Hearing Date:		Permit #:		
Circle all that apply:	Approved	Continued	Disapproved	Other
Notes:				



Doc:1,414,675 12-16-2020 8:59 Ctf#:224768 BARNSTABLE LAND COURT REGISTRY

<u>DEED</u>

CHARLES E. BRISTOW, JR., a married man, of 100 Lakeshore Drive, #554, North Palm Beach, Florida, in consideration of ONE DOLLAR (\$1.00), paid, grant to CNB BRISTOW, LLC, a Massachusetts limited liability company, having an address of 85 Salt Marsh Lane, Pocasset, Massachusetts, with QUITCLAIM COVENANTS, that certain parcel of land situate in Bourne in the County of Barnstable in the Commonwealth of Massachusetts, bounded and described as follows.

LOTS A and B

PLAN 20407-A

There is appurtenant to said lots a right of way over the Way shown on said plan to Beach Street, said right of way to be used in common with others entitled thereto for all purposes for which rights of way are commonly used.

For Grantors' title see Certificate of Title No. 163465 recorded at the Barnstable County Registry of Deeds Land Court Records and deed recorded as Document No. 850970-1.

Property Address:

85 Salt Marsh Lane, Bourne (Pocasset), MA 02559

I, Charles E. Bristow, Jr., hereby release any and all rights to Homestead in the premises conveyed hereunder and affirm that there are no other persons entitled to the protection of the Homestead Act., with the exception Nancy S. Bristow, my spouse, who also signs this instrument releasing any and all rights to Homestead she may have in the premises hereby conveyed.

CHARLES E BRISTOW, JR.

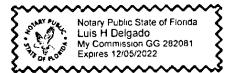
NANCY S. BRISTOW

COUNTY OF Palm Beach

On this $\frac{9^{+1}}{2}$ day of December, 2020, before me, the undersigned Notary Public, personally appeared **Charles E. Bristow**, **Jr. and Nancy S. Bristow** and proved to me through satisfactory evidence of identification, which was

STATE OF FLORIDA

<u>FL. Drivers Licenses</u>, to be the persons whose names are signed on the preceding or attached document, and acknowledged to me that they each signed it voluntarily for its stated purpose.



Notary Public LV15 H. De LGADO My commission expires: 12/05/2022

Bk 33581 Pa256 12-16-2020 a 09:51a

DEED

CHARLES E. BRISTOW, JR., a married man, of 100 Lakeshore Drive, #554, North Palm Beach, Florida, in consideration of ONE DOLLAR (\$1.00), paid, grant to CNB BRISTOW, LLC, a Massachusetts limited liability company having an address of 85 Salt Marsh Lane, Pocasset, Masssachusetts, with QUITCLAIM COVENANTS, the land

in Bourne, Barnstable County, Massachusetts in the Village of Pocasset together with

the buildings and improvements thereon more particularly described as follows.

Parcel I:

The land in Bourne, Massachusetts, in the Village of Pocasset, and being Lot 28 as shown on that plan entitled "May 1945 Amended Plan of Land in Bourne, Mass. (Pocasset) Platted for Charles H. Sherman, et al, August 1939. The Frank T. Westcott Co. Engrs." which plan is recorded with Barnstable Registry of Deeds and to which reference may be had for a more particular description of the granted premises.

Parcel II:

The land in Bourne, Barnstable County, Massachusetts, in that part called Pocasset, and being Lots No. A1 and A2 as shown on that plan entitled "Plan of Land of Charles and Louise Myrick, situated in Pocasset, Town of Bourne, June 1946, Allen Beale, C.E.", which plan is recorded with Barnstable County Registry of Deeds in Plan Book 75, Page 35, and to which reference may be had

for a more particular description of the granted premises.

Said premises are conveyed together with a right of way to be used in common with others entitled thereto over the way as shown on said plan which lies between Lots A1 and A2 and runs northerly to Beach Avenue.

Property Address: 85 Salt Marsh Lane, Pocasset, MA

1

I. Charles E. Bristow, Ir., hereby release any and all rights to Homestead in the premises conveyed hereunder and affirm that there are no other persons entitled to the protection of the Homestead Act., with the exception Nancy S. Bristow, my spouse, who also signs this instrument releasing any and all rights to Homestead she may have in the premises hereby conveyed.

Parcels I and Parcel II being the same premises conveyed to this Grantor be deeds recorded at the Barnstable County Registry of Deeds in Book 14461, Page 325, and Book 14461, Page 327.

EXECUTED as a sealed instrument on this 9th day of December, 2020.

LES E. BRISTOW, IR.

STATE OF FLORIDA

COUNTY OF Porlm Beach

On this 9 day of December, 2020, before me, the undersigned Notary Public, personally appeared Charles E. Bristow, J. and Nancy S. Bristow and proved to me through satisfactory evidence of identification, which was

Fh. Drivers Licenses, to be the persons whose names are signed on the preceding or attached document, and acknowledged to me that they each

signed it voluntarily for its stated purpose.

Notary Public State of Florida Luis H Delgado My Commission GG 282081

Notary Public LV13 H.

My commission expires: 2

Deeds/Bristow New Pocasset Deed

Sec. 15.30 149 Pleasann Attieboro, MA 02703

BARNSTABLE REGISTRY OF DEEDS John F. Meade, Register



Health Agent

TOWN OF BOURNE BOARD OF HEALTH

24 Perry Avenue Buzzards Bay, MA 02532

www.townofbourne.com/health Phone (508) 759-0600 ext. 1513 Fax (508) 759-0600





GRANT OF TITLE 5 BEDROOM COUNT DEED RESTRICTION

This C	rant of Title 5 Bedroom Count Deed Restriction is made as of	day of	, 2022 by
CNB I	Bristow, LLC c/o Charles E. Bristow, Jr. ("Grantor"), of 85 Salt Marsh	Lane, Bourne,	Barnstable County,
MA pu	rsuant to M.G.L. c. 21A, §13and 310 CMR 15.000 (collectively, "Title	5").	

WITNESSETH

WHEREAS, Grantor, being the owner in fee simple of that certain parcel of land known as <u>85 Salt Marsh Lane</u> located in Bourne, Barnstable County, Massachusetts, with the buildings and improvements thereon, pursuant to a deed from Charles E. Bristow, Jr., to Grantor, dated 12/16/2020 Certificate of Title No. 224768 issued by the Land Registration Office of the Barnstable County Registry District, said parcel of land shown as Lots A & B on Land Court Plan No. 20407-A, on file with the Land Registration Office of Barnstable County Registry District and pursuant to a deed from Charles E. Bristow, Jr. to Grantor, dated 12/16/2020, and recorded with Barnstable County Registry of Deeds in Book 33581, Page 256 being shown as Lot 28 on a plan entitled, May 1945 Amended Plan of Land in Bourne, Mass. (Pocasset) Platted for Charles H. Sherman, et al, August 1939. The Frank T. Westcott Co., Engrs.", recorded with Barnstable County Registry of Deeds in Plan Book 81, Page 61 and Lots No. A1 and A2 shown on that plan entitled "Plan of Land of Charles and Louise Myrick, situated in Pocasset, Town of Bourne, June 1946, Allen Beale, C.E., recorded with Barnstable County Registry of Deeds in Plan Book 75, Page 35 ("Property"); and

WHEREAS, Grantor desires to restrict the number of bedrooms, as the term bedroom is defined at 310 CMR 15.002 ("Bedroom") and the Board of Health regulation dated effective April 24, 1992 regarding bedroom definition, through the granting of this Title 5 Bedroom Count Deed Restriction;

NOW, THEREFORE, Grantor does hereby GRANT to the Town of Bourne of Barnstable County, Massachusetts, a municipal corporation located in Barnstable County, having a mailing address of 24 Perry Avenue, Buzzards Bay, Massachusetts, and acting by and through its Board of Health ("Local Approving Authority"), for nominal and nonmonetary consideration, the sufficiency and receipt of which are hereby acknowledged, with QUITCLAIM COVENANTS, a TITLE 5 BEDROOM COUNT DEED RESTRICTION ("Restriction") in, on, upon, through, over and under the Property.

Said Restriction operates to restrict the Property as follows:

- **1. Restriction.** Grantor hereby restricts the total number of Bedrooms in, on, upon, through, over and under the Property to **Two Bedrooms**, such that at no time shall there exist more than **Two Bedrooms** in, on, upon, through, over and under said Property.
- **2. Severability**. Grantor hereby agrees that, in the event that a court or other tribunal determines that any provision of this instrument is invalid or unenforceable:
 - (i) That such provision shall be deemed automatically modified to conform to the requirements for validity and enforceability as determined by such court or tribunal; or

(ii) That any such provision, by its nature, cannot be so modified, shall be deemed deleted from this instrument as though it had never been included herein.

In either case, the remaining provisions of this instrument shall remain in full force and effect.

- **3. Enforcement**. Grantor expressly acknowledges that a violation of the terms of this Restriction could result in the following:
- (i) upon determination by a court of competent jurisdiction, in the issuance of criminal and civil penalties, and/or equitable remedies, including, but not limited to, injunctive relief, such injunctive relief could include the issuance of an order to modify or remove any improvements constructed upon the Property in violation of the terms of this Restriction; and
- (ii) in the initiation of an enforcement action and/or assessment of penalties by the Bourne Board of Health and/or the Massachusetts Department of Environmental Protection, a duly constituted agency with a principal office located at One Winter Street, Boston, MA 02108 (DEP), to enforce the terms of this Restriction pursuant to Title 5; M.G.L. c.111, §§ 2C, 17, 31, 122, 123, 125, 127A-O, inclusive, and 129; and M.G.L c. 83, §11.
- **4. Provisions to Run with the Land.** The rights, liabilities, agreements and obligations created under this Restriction shall run with the Property and any portion thereof for the term of this Restriction. Grantor hereby covenants for [himself/herself/itself] and [his/her/its] executors, administrators, heirs, successors and assigns, to stand seized and to hold title to the Property and any portion thereof subject to this Restriction.

The rights granted to the Bourne Board of Health, its successors and assigns, do not provide, however, that a violation of this Restriction shall result in a forfeiture or reversion of Grantor's title to the Property.

- **5. Concurrence Presumed**. It is agreed that:
- (i) Grantor and all parties claiming by, through, or under Grantor agree to and shall be subject to the provisions of this Restriction; and
- (ii) Grantor and all parties claiming by, through, or under Grantor, and their respective agents, contractors, sub-contractors and employees, agree that the Restriction herein established shall be adhered to and shall not be violated, and that their respective interests in the Property shall be subject to the provisions herein set forth.
- **6.** Incorporation into Deeds, Mortgages, Leases, and Instruments of Transfer. Grantor hereby agrees to incorporate this Restriction, in full or by reference, into all deeds, easements, mortgages, leases, licenses, occupancy agreements or any other instrument of transfer by which an interest and/or a right to use the Property, or any portion thereof, is conveyed.
- **7. Recordation**. Grantor shall record and/or register this Restriction with the appropriate Registry of Deeds and/or Land Registration Office within 30 days of receiving the approved Restriction from the Local Approving Authority. Grantor shall file with the Bourne Board of Health and the DEP a certified Registry copy of this Restriction as recorded and/or registered within 30 days of its date of recordation and/or registration.
- **8. Amendment and Release**. This Restriction may be amended only upon the approval and acceptance of such amendment by the Local Approving Authority. Release of this Restriction shall be granted by the Local Approving Authority upon (i) Grantor's request of such release; and (ii) the Property being connected to a municipal sewer system and the septic system serving the Property being abandoned in accordance with 310 CMR 15.354. Any such amendment or release shall be recorded and/or registered with the appropriate Registry of Deeds and/or Land Registration Office and a certified Registry copy of said amendment or release shall be filed with the Bourne Board of Health and the DEP within 30 days of its date of recordation and/or registration.
- 9. Term. This Restriction shall run in perpetuity and is intended to conform to M.G.L. c.184, §26, as amended.

- **10. Rights Reserved.** This Restriction is granted to the Bourne Board of Health. It is expressly agreed that acceptance of this Restriction by the Bourne Board of Health shall not operate to bar, diminish, or in any way affect any legal or equitable right of the Bourne Board of Health or of DEP to issue any future order with respect to the Property or in any way affect any other claim, action, suit, cause of action, or demand which the Bourne Board of Health or DEP may have with respect thereto. Nor shall acceptance of the Restriction serve to impose any obligations, liabilities, or any other duties upon the Bourne Board of Health.
- **11. Effective Date.** This Restriction shall become effective upon its recordation and/or registration with the appropriate Registry of Deeds and/or Land Registration Office.
- 12. No construction permits shall be issued for the Property until a certified Registry copy is submitted to the office of the Bourne Board of Health unless written approval is otherwise granted by the Board of Health.

COMMONWEAL	TH OF MASSACHU	SETTS	
	SS		
CNB Bristow, LLC	C c/o Charles E. Bristo	ow, Jr.	
Witness my hand a	and seals this	, 2022.	
appeared:to	o be the person(s) who	proved to me through satisfacto	the undersigned notary public, personally bry evidence of identification which were occeeding or attached document, and see.
		Notary Public	
		My Commission Expire	s:
Approved and Acc	cepted By:		
		Date:	
Terri A. Guarino, l Health Agent	R.S., C.H.O		

Town of Bourne

Page 3 of 3

457.98 L H₂O

Town of Bourne

Conservation Commission

Nitrogen Loading Calculation Sheet for Residential Housing

The following calculation sheet is based upon Technical Bulletin 91-001 issued by the Cape Cod Commission and deals with nitrate nitrogen (NO3-N) <u>Use the information from your PLAN OF RECORD to provide the following:</u>

with nitrate nitrogen (NO3-N) Use the information from your PLAN OF RECORD to provide the following:							
85 Salt Marsh Lane (Proposed Conditions)							
Number of Bedrooms (Title 5 Definition) (Tight Tank = No bedrooms) 0 Bedrooms							
Lot Size (in square feet of upland areas)	= 12,855 sq.ft. Upland						
Impervious Surfaces;**roof area= 2,017 sq.ft.	**Paved Area = 1,771 sq.ft.						
Natural Area = lot area minus all impervious surface	es = 9,067 sq.ft.						
Lawn Area in sq. ft.	= 7,223 sq.ft.						
TITLE 5 FLOW = 110 GAL./ DAY PER BEDROOM							
WASTEWATER FLOWS (NITROGEN LOAD & W	ATER LOAD)						
(No Nitrogen Load from Wastewater due to insta	ıllation of Tight Tank)						
Nitrogen from Title 5 design = 14,572 mg NO ₃ -N / d	ay / bedroom: or 7911 mg NO3-N / day/ bedroom						
with IA Treatment							
Water from Title 5 design = 416.3 H ₂ O / day / bedro	om						
1a) Number of bedrooms = 0 x 1457	2 = 0.00 mg. NO ₃ -N / day						
1b) Number of bedrooms = 0 x 416	= 0.00 L H ₂ O / day						
Actual Nitrogen load = 6071.5 mg NO ₃ -N / day/ bed	room: 3296 mg NO3-N / day/ bedroom						
with IA Treatment							
Actual Water load = 173.5 L H ₂ O / day / bedroom							
*Note: This assumes 2.5 people / unit average occu	pancy within the Town						
Tions Time accamined Lie people's annial and age econ							
2a) Number of bedrooms = 0 x 6071	.5= 0.00 mg. NO3-N / day						
	•						
2b) Number of bedrooms = 0 x 173.5	•						
IMPERVIOUS SURFACES (NITROGEN LOAD & W	/ATER LOAD)						
NO3-N load number sq. ft. of roof surface X	ě i						
H ₂ O load number sq. ft. of roof surface X	0.2586 L / sq. ft.						
3a) Roof surface = 2017 sq. ft. X	0.19395 = 391.20 mg NO ₃ -N						
3b) Roof surface = 2017 sq. ft. X	0.2586 = 521.60 L H ₂ O / day						
NO ₃ -N load number sq. ft. of paved surface X	0.388 mg / sq. ft.						
H ₂ O load number sq. ft. of paved surface X	0.2586 L / sq. ft.						
4a) NO3-N = 1771 sq. ft. paved surfa	ce X 0.388 mg / sq. ft. 687.15 mg NO ₃ -N						

1771 sq. ft. paved surface X 0.2586 L / sq. ft.

4b) H2O

LAWN NITROGEN LOADING = 0.933 mg / sq. ft. lawn surface 7223 X 0.933 5) sq. ft. of lawn = | 6739.06 mg NATURAL AREA WATER LOADING Natural area = lot size - impervious surfaces 9067 sq. ft. 6) Natural area 9067 X water recharge factor = 1231.30 L (0.1358 L / sq. ft. for Bourne) SUMMARY OF NITROGEN LOADING **Estimated Title 5 Nitrogen & Water Loading** 7a) ADD the above NO3N load 5 1a (+)3a (+) 4a (+) 0 391.20 687.15 6739.06 7817.40 mg NO₃-N / day 7b) 1b (+) 3b (+) 4b (+)6 0 521.60 457.98 1231.30 2210.88 L H₂O / day 7c) DIVIDE 7a by 7b 3.5 ppm NO₃-N***** Actual Nitrogen & Water Loading 8a) ADD the above NO3N load: 2a 5 (+)3a (+)4a (+)0 391.20 687.15 6739.06 7817.40 mg NO₃-N / day 8b) ADD the above water (H2O) load: 2b 6 (+) (+) 4b (+)0 521.60 457.98 1231.3 2210.88 L H₂O / day 8c) DIVIDE 8a by 8b 3.5 ppm NO3-N***** FINAL CALCULATION ADD 7c & 8c (ppm) 7.1 divide by 2 = 3.5 ppm NO₃-N

This is the actual nitrate nitrogen load for the project as designed. The target for coastal areas is 5 ppm nitrate nitrogen. Certain critical embayments may require a LOWER figure to prevent degradation.

******If your nitrate nitrogen load exceeds the target limit USE A SECOND CALCULATION SHEET TO SHOW ALTERNATIVES IN TRYING TO AHIEVE THE 5 PPM NITRATE NITROGEN LEVEL***

Town of Bourne

Conservation Commission

Nitrogen Loading Calculation Sheet for Residential Housing

The following calculation sheet is based upon Technical Bulletin 91-001 issued by the Cape Cod Commision and deals with nitrate nitrogen (NO3-N) <u>Use the information from your PLAN OF RECORD to provide the following:</u>

with nitrate nitrogen (NO3-N) Use the information from your PLAN OF RECORD to provide the following:						
85 Salt Marsh Lane (Existing Conditions)						
Number of Bedrooms (Title 5 Definition)	=	2 Bedrooms				
Lot Size (in square feet of upland areas)	=	12,855 sq.ft. Upland				
Impervious Surfaces;**roof area= 2,017 sq.ft.	**Paved Area =	<mark>1,771</mark> sq.ft.				
Natural Area = lot area minus all impervious surfaces	=	9,067 sq.ft.				
Lawn Area in sq. ft.	=	<mark>7,223</mark> sq.ft.				
TITLE 5 FLOW = 110 GAL./ DAY PER BEDROOM						
WASTEWATER FLOWS (NITROGEN LOAD & WAT	ΓER LOAD)					
Nitrogen from Title 5 design = 14,572 mg NO3-N / day with IA Treatment	/ bedroom: or 7911 mg	NO3-N / day/ bedroom				
Water from Title 5 design = 416.3 H2O / day / bedroon	า					
1a) Number of bedrooms = 2 x 14572 =	= 29144.00 mg. NO3-l	N / day				
1b) Number of bedrooms = 2 x 416 =	= 832.00 L H ₂ O / da	ау				
Actual Nitrogen load = 6071.5 mg NO3-N / day/ bedroo	om: 3296 mg NO3-N / da	ay/ bedroom				
with IA Treatment						
Actual Water load = 173.5 L H2O / day / bedroom						
*Note: This assumes 2.5 people / unit average occupa	ncy within the Town					
	·					
2a) Number of bedrooms = 2 x 6071.5=	= 12143.00 mg. NO3-l	N / dav				
2b) Number of bedrooms = 2 x 173.5 =	G	•				
IMPERVIOUS SURFACES (NITROGEN LOAD & WA		-,				
	. 2. (20/12)					
NO ₃ -N load number sq. ft. of roof surface X	0.19395 mg NO3-N / s	sq. ft.				
H2O load number sq. ft. of roof surface X	0.2586 L / sq. ft.					
3a) Roof surface = 2017 sq. ft. X	0.19395 = 391.20	mg NO3-N				
3b) Roof surface = 2017 sq. ft. X	0.2586 = 521.60	L H ₂ O / day				
NO ₃ -N load number sq. ft. of paved surface X	0.388 mg / sq. ft.					
H2O load number sq. ft. of paved surface X	0.2586 L / sq. ft.					
4a) NO ₃ -N = 1771 sq. ft. paved surface	X 0.388 mg / sq. ft.	687.15 mg NO ₃ -N				
4b) H2O = 1771 sq. ft. paved surface	X 0.2586 L / sq. ft.	457.98 L H2O				

LAWN NITROGEN LOADING = 0.933 mg / sq. ft. lawn surface 7223 X 0.933 5) sq. ft. of lawn = | 6739.06 mg NATURAL AREA WATER LOADING Natural area = lot size - impervious surfaces 9067 sq. ft. 6) Natural area 9067 X water recharge factor = 1231.30 L (0.1358 L / sq. ft. for Bourne) SUMMARY OF NITROGEN LOADING **Estimated Title 5 Nitrogen & Water Loading** 7a) ADD the above NO3N load 5 1a (+)3a (+) 4a (+) 29144 391.20 687.15 6739.06 36961.40 mg NO₃-N / day 7b) 1b (+) 3b (+) 4b (+)6 832 521.60 457.98 1231.30 3042.88 L H₂O / day 7c) DIVIDE 7a by 7b 12.1 ppm NO₃-N***** Actual Nitrogen & Water Loading 8a) ADD the above NO3N load: 2a (+)3a (+)4a (+)5 12143 391.20 687.15 6739.06 19960.40 mg NO₃-N / day 8b) ADD the above water (H2O) load: 2b 6 (+) (+) 4b (+)347 521.60 457.98 1231.3 2557.88 L H₂O / day 8c) DIVIDE 8a by 8b 7.8 ppm NO3-N***** FINAL CALCULATION ADD 7c & 8c (ppm) 20.0 divide by 2 = 10.0 ppm NO₃-N

This is the actual nitrate nitrogen load for the project as designed. The target for coastal areas is 5 ppm nitrate nitrogen. Certain critical embayments may require a LOWER figure to prevent degradation.

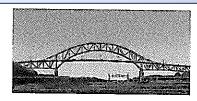
******If your nitrate nitrogen load exceeds the target limit USE A SECOND CALCULATION SHEET TO SHOW ALTERNATIVES IN TRYING TO AHIEVE THE 5 PPM NITRATE NITROGEN LEVEL***



TOWN OF BOURNE

Board of Assessors 24 Perry Avenue Buzzards Bay, MA 02532 (508) 759-0600 Ext. 1510 ◆ Fax (508) 759-8026





Rui Pereira, MAA Director of Assessing

October 19, 2022

CNB Bristow, LLC c/o Bracken Engineering, Inc. 49 Herring Pond Rd. Buzzards Bay, MA 02532

Re: Abutters List for Map 43.1 Parcel 83

Property address: 85 Salt Marsh Lane

As required by the Bourne Board of Health, pursuant with section 310 CMR 15.411(1), this is to certify that the attached list of names and addresses constitutes all of the parties in interest as shown on the most recent tax list of the Town of Bourne.

Abutting properties are: Map 43.1 Parcels 81, 85 & 242; Map 43.3 Parcels 12 & 17.

Your payment of \$10.00 has been received by the Bourne Assessor's Office.

Please be advised that this abutters list is only good for 30 days from the date on this letter. Expired abutters list can be recertified for an additional filing fee.

See enclosed for abutters mailing addresses.

Board of Assessors

Sun Sun Sin -Duna Barakaushaa Michael Frift Extract: Database: Filter: Sort:

ABUTTERS LIST LIVE Key IN 9321,9092,9090,9237,9317

Report #24: Owner Listing Report Fiscal Year 2023

Bourne MA

Key	Parcel ID	Owner	Location	LĆVCI	Bk-Pa(Cert) /Dt	Mailing Street	Mailing City	T.P	Zip:Cd/County
9090	43,1-81-0	CNB BRISTOW LLC	85 SALT MARSH LN	Y 1320	224768 12/16/2020	PO BOX 1135	POCASSET	MA	02559
9092	43,1-85-0	PARRY DOROTHY J TR SNUFFY REALTY TR	75 SALT MARSH LN	N 1320	11732/90 9/30/1998	10 PLAIN ST EAST	BERKLEY	MA	02779-1113
9237	43.1-242-0	MORRIS KWAME 2015 REV TR (1/2) TRACEY MCLEOD 2015 REV TR (1/2	94 SALT MARSH LN	N 1010	35007/136 3/29/2022	270 BUCKMINSTER RD	BROOKLINE	MA	02445
9317	43,3-12-0	WITT JEFFREY'S & LAURA L	121 SALT MARSH LN	N 1010	31053/110 1/30/2018	11 SHERIDAN ROAD	WELLESLEY HILLS	MA	02481
9321	43,3-17-0	TOWN OF BOURNE CONSERVATION COMMISSION	200 SHORE RD	N 9320	N/A/N/A 11/10/1972	24 PERRY AVENUE	BUZZARDS BAY	MĄ.	02532

Total Records

Page

MAIN OFFICE:

49 Herring Pond Road Buzzards Bay, MA 02532 TEL: (508) 833-0070 FAX: (508) 833-2282



NANTUCKET OFFICE:

19 Old South Road Nantucket, MA 02554 TEL: (508) 325-0044 www.brackeneng.com

November xx, 2022

CERTIFIED MAIL

RE: Notice of Public Hearing

Dear Abutter:

In accordance with the State Environmental Code, Title 5: 310 CMR 15.00, you are hereby notified that the Property Owner, **CNB Bristow LLC**, has requested a hearing before the Bourne Board of Health for relief from the Bourne Board of Health Regulations for the installation of an upgraded Septic System. The location of the property for which approval is sought is **85 Salt Marsh Lane (Map 43.1, Parcel 83)**, **Pocasset** where you are listed as an abutter. At said hearing the Board will discuss and possibly vote on:

- 15.405.3 (b) Local Upgrade Approval is requested for the use of a tight tank in accordance with the provisions of 310CMR 15.260 (Title 5).
- 15.405.1 (j) Local Upgrade Approval is requested for the reduction in the requirement of a 12" separation between the inlet tee and high groundwater.

This hearing is <u>tentatively</u> scheduled for Wednesday, December 14th at <u>5:30 p.m.</u>in Conference Room #2 at the Bourne Veteran's Memorial Community Building, 239 Main Street, Buzzards Bay. Information regarding the hearing may be available for your review one week prior to the meeting by contacting the Bourne Health Department at 508-790-0600, Ext. 1513, Monday through Friday from 8:30 a.m. until 4:30 p.m.

Meeting agendas are posted on the Town of Bourne website, www.townofbourne.com/health no less than 48 hours in advance of the hearing. *Please confirm the date, time, and location of the meeting with the Town, in case of any changes.* Should you have any questions or concerns, please do not hesitate to contact the undersigned at zac@brackeneng.com or the Bourne Health Department at 508-790-0600, Ext. 1513.

Sincerely,

BRACKEN ENGINEERING INC.

Zachary L. Basinski, PE, C.F.M

Project Manager

Agent for the Applicant

