SULLIVAN & COMERFORD, P.C.

ATTORNEYS AT LAW 80 WASHINGTON STREET BUILDING B, SUITE NO. 7 NORWELL, MA 02061 (781) 871-6500 Fax (781) 792-3993

WALTER B. SULLIVAN ANITA J. COMERFORD KAYLA A. SEPULVEDA KATHLEEN H. HEFFERNAN

April 25, 2022

Duxbury Board of Health 878 Tremont Street Duxbury, MA 02331

RE:

3 Dogwood Drive, Lot I, Variance Approval Request for a new Private Well location pursuant to Private Well Regulations Town of Duxbury, Section 2.16 Applicants: Graham and Stephanie Chevry (Wisniewski)

Dear Chairwoman Karen Tepper and Board of Health Members:

This office, along with Rob Carlezon, Grady Consulting, LLC, represents the Applicants, Graham and Stephanie Chevry, who reside at 3 Dogwood Drive, Duxbury, also known as Lot I (Property) The Applicants seek a variance pursuant to Private Well Regulations Town of Duxbury (PWRTD), Section 2.16.

The Applicants seek a waiver specifically from PWRTD, Section 2.06.3 (g) which states:

- 2.06.3 The placement of all private wells shall meet the following criteria for offsets, unless exceptions are noted for agricultural wells:
- (g) A minimum of one hundred fifty (150) feet from a leaching facility, except a private well for irrigation use only may be a minimum of one hundred (100) feet.

The Applicants seek to place their new private well location a minimum of one hundred and one point eight (101.8) feet from their neighbor's, 5 Dogwood Drive leaching facility. The proposed setback is needed in order to find a location on the Property where a private well will produce potable water in sufficient quantity for the Chevry family's household and land use.

History of Property and Search for Potable Water

On May 27, 2020, the Builder/Vendor of the Property had a private well drilled by their well subcontractor pursuant to Grady Consulting, LLC. Site Plan. See Exhibit A, attached and incorporated herein by reference, Grady Consulting, LLC. Site Plan dated April 20, 2018 and Exhibit B, attached incorporated by reference herein, Grady Consulting, LLC. As-Built Plan dated September 9, 2020 rev. January 6, 2021.

The Builder/Vendor's well subcontractor hired Envirotech Laboratories, Inc. (Envirotech) to perform the required water quality test pursuant to PWRTD, Section 2.08.



Envirotech sent an employee to collect the water sample on and around **June 5, 2020**. This well sample was taken before the Property was developed and there was no water filtration system installed. Please see *Exhibit C, attached and incorporated by reference herein, Envirotech Laboratories, Inc.'s Well Quality Report dated June 5, 2020.*

Upon information and belief, the Builder/Vendor's well subcontractor based on Envirotech's Well Quality Report dated June 5, 2020 and his years of experience advised the Builder/Vendor to have another well drilled, in a different location on the property, in order to find potable water. Thereafter, the Builder/Vendor, no longer employed this well subcontractor to drill other wells on its subdivision property and hired, on information and belief, another well subcontractor (approximately 6-8 wells were to be drilled at this time for the Dogwood Subdivision). The Builder/Vendor did not drill another well on the Chevrys' Property.

The Builder/Vendor most likely did not comply with Massachusetts General Laws Chapter 40, Section 54 and the PWRTD, Section 2.08.4 requiring a Water Quality Report, which includes a copy of the certified laboratory test results, the name of the individual who performed the sampling and where in the system the water sample was obtained, to be submitted to the Duxbury Board of Health prior to a building permit for the Property being issued.

On **June 23, 2020**, a building permit was issued to the Builder/Vendor for 3 Dogwood Drive, BPO 20-22. A four bedroom home, 2.5 baths with an attached two car garage was built on the Property. On or around September, 2020, the Property was listed for sale.

In order for the Builder/Vendor to sell the Property, he was required by PWRTD, Section 2.08.7, as Seller of the Property to perform another water quality test of the Property's private well and present the Buyer with the results. The Builder/Vendor submitted to the Duxbury Board of Health a Water Quality Report from Nashoba Analytical LLC. dated **December 14**, **2020**. Please see Exhibit D, attached and incorporated by reference herein, Nashoba Analytical LLC's Certificate of Analysis dated December 14, 2020.

This December 14, 2020, water quality test report states the water sample was collected at the outside faucet by Terry Spellman from Aquatek Filtration & Pump Service, Inc. ("Aquatek") from Boylston, MA on **December 4, 2020**. The report also states the name of the Builder/Vendor's construction entity and the address of the Property. Terry Spellman from Aquatek, sold and installed the filtration and softener system for 3 Dogwood Drive.

The Chevrys entered into a Purchase and Sale Agreement to purchase 3 Dogwood Drive from the Builder/Vendor on **December 30, 2020**. On **January 25, 2021**, the Chevrys purchased the Property from the Builder/Vendor and occupied the property shortly thereafter.

On about March 22, 2021, the Chevrys ran out of water. Regrettably, the Chevrys were not provided with any manufacturer warranties or other documents relating to the running or maintenance of their filtration system but were given a letter from the Builder/Vendor, with a telephone number, to contact Terry from Aquatek for maintenance of the filtration system. The Chevrys called Terry Spellman from Aquatek and he came to the house to inspect and describe what needed to be done to the filtration system in order to replenish the water supply. He

instructed the Chevrys to replace the filters more often and to call him if the water service was interrupted again. He did not present to the Chevrys a maintenance proposal or contract for care of the filtration system.

When trying to find who else to contact about their home not having water, the Chevrys mistakenly also contacted the first well subcontractor who provided the Chevrys with a copy of Envirotech Laboratories, Inc.'s Well Quality Report dated June 5, 2020. This was the first time the Chevrys found out their private well did not produce potable water for their family.

Over the next five months, the Chevrys spent many hours and money trying to keep their filtration system and softener equipment running properly and interviewing landscape and irrigation companies about planting grass, shrubs and trees and installing an irrigation system on the Property. The landscape professionals told the Chevrys that their untreated water would not allow the normal growth of native shrubs, trees and grass and that the high salt content would interfere with the irrigation system equipment.

On or about September 16, 2021, the Chevrys, in accordance with Duxbury's regulations paid to have another private well drilled pursuant to *Exhibit E, attached and incorporated by reference herein, Grady Consulting's Site Plan dated April 7, 2021.* This second private well's water quality test was better than the first well's water quality test dated May 27, 2020 but it still did not produce potable water. *See Exhibit F, attached and incorporated by reference herein, Envirotech Laboratories, Inc.'s Water Quality Report dated September 16, 2021.*

Comparison of Well Water Reports

	Recommended Limits	Enviro #1	Enviro #2	Nashoba
Sodium	20.0	220	230	27.7
Chloride	250	1,100	760	37.2
Total Hardne	ess 50-200	814	623	53
Specific Conductance	500	3,220	2,520	261

The Enviro #1 refers to the Water Quality Report on the first well drilled for Builder/Vendor on May 27, 2020. The Enviro #2 refers to the Water Quality Report on the second well drilled for Chevrys on September 16, 2021. Nashoba refers to the Well Quality Report done on the first well drilled for the Builder/Vendor after the filtration system was installed.

On or about **October 4, 2021,** the Chevrys met with Tracy Mayo, Duxbury Health Agent, to discuss with the Board of Health representative their private well, non-potable water quality results and their lack of outside water fit for irrigation. The Chevrys provided Ms. Mayo with a copy of Envirotech's Well Quality Report dated June 5, 2020.

The Chevrys consulted with various well companies and were told that a shallow well/dug well may be an option if drilled wells did not produce potable water. The Chevrys

understood that drilled or bored wells are more desirable than shallow wells/dug wells (because they provide the greatest protection from contamination when properly constructed and tested) but the two prior drilled wells produced non-potable water. On or about March 15, 2022, the Chevrys requested John McCue, Well Drilling, Test Boring, to test their Property's soil to determine if a shallow well/dug well could be installed. The results of the testing showed the soil was very poor and a shallow well/dug well could not be constructed. See Exhibit G, attached and incorporated by reference herein, J.A. McCue, Well Drilling, Test Boring Report dated March 15, 2022.

A Variance May Be Granted Without Nullifying the Intent or Purpose of Private Well Regulations Town of Duxbury, Section 2.06.3 (g)

PWRTD, Section 2.16.1 states:

The Board may, after a public hearing, grant a variance to the application of these regulations, when, in its opinion, the enforcement thereof would do manifest injustice, and the applicant has demonstrated that the equivalent degree of protection will still be provided to the private water supply without strict application to particular provisions of these regulations.

The location of the proposed third, drilled private well complies with all of the Commonwealth of Massachusetts Private Well Setback Requirements and all of the Town of Duxbury's private well location setbacks from property lines, roadways and wetlands except for Private Well Regulations Town of Duxbury, Section 2.06.3 (g). See Exhibit H, Grady Consulting Site Plan dated April 7, 2021, rev. April 7, 2022, Private Well Set Back Requirements Table, Variance.

Chapter 21A, section 3, of the MGL, Mass DEP promulgated 310 CMR 15.00, "Minimum Requirements for the Subsurface Disposal of Sanitary Sewage, State Environmental Code, Title 5." (Title 5) requires, among other things, that a potable private well be located a minimum of 100 feet from a leaching field. Exhibit A, Grady Consulting Site Plan dated April 7, 2021, revised April 7, 2022, which the Chevrys are requesting the BOH to allow them to use to locate their third well location to find potable water from a private well on their property complies with Title 5.

In accordance with Title 5, Town Boards of Health, like Duxbury, have the authority to increase the amount of feet from a leaching field where private wells can be located. The Town of Duxbury requires a private well to be located 150 feet from a leaching field. Town Boards of Health, like Duxbury, are also allowed, pursuant to their discretion to grant variances from their regulations without getting prior approval by the MassDEP, as long as the Title 5 setback requirements are met. The setback requirements pursuant to this variance request meet Title 5 requirements including the location of the private well 100 feet from a leaching field.

PWRTD, Section 2.01, Purpose:

These regulations are intended to protect the public health and general welfare by ensuring that private wells are constructed in a manner, which will protect the quality of the groundwater, derived from private wells.

The grant of this variance will allow the Chevrys to drill a well on their Property which may produce potable water. Potable water will protect the health and general welfare of the Chevry Family consisting of a mother, father, baby and a family dog. The Title 5 regulations pertaining to the well location distance from a leaching field is meant to protect the private well water from contamination from the leaching field. Title 5 will be met by the variance setback the Chevrys are requesting herein. The Chevry's variance request which conforms to Title 5 will not have any adverse effect on their neighbors or the Duxbury community but may cause the Chevrys to obtain potable water for their household.

Conclusion

Accordingly, the Applicants respectfully request that the Board of Health grant them a variance from the Private Well Regulations Town of Duxbury, Section 2.06.3 (g) set back regulation requiring their private well location to be located 150 feet from a leaching field in order to allow the Chevrys to locate their third well location attempt to be located 100 feet from a leaching field but still in compliance with Tite 5 in order to find potable water on their Property.

The Chevrys through their attorney, will provide their neighbors, Quinn and Meghan B. Conor at 1 Dogwood Drive and Michael J. and Brittnee Tucciarone at 5 Dogwood Drive with sufficient notice that a hearing on this variance request will be conducted at the next meeting of the Duxbury Board of Health on May 19, 2022, via zoom at 7:00 P.M.

Date: April 25, 2022

Graham and Stephanie Chevry By their Attorney,

Kathleen H. Heffernan, Esq. Sullivan & Comerford P.C.

80 Washington Street

Building B, Suite 7 Norwell, MA 02061

781-871-6500

kheffernan@sulsul.com

EXHIBIT C

ENVIROTECH LABORATORIES, INC. MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563 (508)888-6460 1-800-339-6460 FAX (508)888-6446

Client Name:

Jim Watt Arisian Well LLC

Location:

Address:

569 Center St

1065 Summer St

Pembroke, MA

Duxbury, MA

02333

Lab Number:

DW-201523

Collected By:

Envirotech/ME

Date Received:

06/05/20

Sample Type:

Lot I

Well Specs:

New Well

Location Source	Date Collected	Time Collected		Com	iments	
Analysis Requested	Units	Recommended Limits	Analysis Result	Method	Date Analyzed	Analyzed By
pH	pH units	6.5-8.5	6.30	SM 4500-H-B	06/05/2020	LL
Nitrite-N	mg/L	1.00	<0.006	EPA 300.0	06/05/2020	LL
Nitrate-N	mg/L	10.0	1.65	EPA 300.0	06/05/2020	LL
Sodium	mg/L	20.0	220	EPA 200.7	06/15/2020	KB
Total Iron	mg/L	0.3	0.05	EPA 200.7	06/15/2020	KB
Manganese	mg/L	0.05	0.014	EPA 200.7	06/15/2020	KB
Potassium¤	mg/L	20.0	11	EPA 200.7	06/15/2020	KB ·
Calcium	mg/L	N/A	260	EPA 200.7	06/15/2020	KB
Magnesiumu	mg/L	N/A	40	EPA 200.7	06/15/2020	KB
Total Hardness¤	mg/L	50-200	814	SM 2340 B	06/16/2020	KB
Alkalinity	mg/L	200	78	SM 2320B	06/05/2020	LL
Sulfate	mg/L	250	25	EPA 300.0	06/05/2020	LL
Chloride	mg/L	250	1,100	EPA 300.0	06/07/2020	LL
Turbidity	NTU	5.0	2.0	SM 2130B	06/05/2020	LL
Color¤	APC units	15	<5	SM 2120B	06/05/2020	LL
Odora	TON	3.0	ND	SM 2150B	06/05/2020	LL
Tannins	mg/L	N/A	<0.1	SM5550B	06/05/2020	TM
Volatile Organic Compounds*	ug/L	See comment.	**4.24	EPA 524.2	06/10/2020	NEC*
Free CO2	mg/L	50	110	Calculation	06/10/2020	LL
TDS	mg/L	500	2,060	SM2540C	06/08/2020	LL
Sediment	m!./Hour	NVA	<0.1	SM2540 F	06/05/2020	KB
	Present/Absent	Absent	Absent	SM9223B	06/05/2020	RL @ 14:30
Total Coliform (Presence/Absence)	umhos/cm	500	3,220	EPA 120.1	06/08/2020	LL
Specific Conductance Ammonia-N	mg/!_	1.0	<0.50	EPA 350.2	06/18/2020	KB

Saari Director Ronald J. Saari

Date

Laboratory Director

ENVIROTECH LABORATORIES, INC. MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563 (508)888-6460 1-800-339-6460 FAX (508)888-6446

Client Name:

Jim Watt Arisian Well LLC

Location:

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1065 Summer St

Pembroke, MA

Duxbury, MA

02333

Lab Number:

DW-201523

Collected By:

Envirotech/ME

Date Received:

06/05/20

Sample Type:

Lot I

Well Specs:

New Well

				ware but about two	nus estateunz esmitekkis	00001644.859665F1/676
Location Source A	Date Collected	Time Collected		Con	ments	Elyappan ille .
Á	06/05/20	10:00	Local Maria Const	Septiment.		Control of the second
Analysis Requested	Units	Recommended Limits	Analysis Result	Method	Date Analyzed	Analyzea By

Comments:

pH is below recommended limit and may have corrosive characteristics.

Sodium indicates possible salt water intrusion or road salt run off.

Total Hardness results indicate water is very hard to calcium carbonate concentration.

** Toluene 4.24 ug/L, see attached

Toluene is used as a solvent, especially for paints, coatings, gums, oils and resins, and as raw material in the production of benzene, phenol and other organic solvents and in the production of polymers and rubbers.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met,

unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

Malillania Ronald J. Saari

Date

Laboratory Director

EXHIBIT D

31A Willow Road, Ayer MA 01432

Tel: (978)-391-4428 Fax: (978)-391-4643

Web Site http://www.nashobaanalytical.com

Date: 12 14 20
Property address: 3 Dogwood Road
Clty/Town: State Duxbury, MA
Laboratory report number: 222 45
The water analyzed as submitted to the lab from the above referenced property
(check one)
MEETS FHA/EPA requirements for Potable water
DO DO NOT MEET SUM/EDA requirements for Potable water.

David L. Knowllon
Laboratory Director

Tel: 978-391-4428

Fax: 978-391-4643

LabNumber:

222451

31A Willow Road, Ayer MA 01432

Website: http://www.NashobaAnalytical.com

Use this number with all correspondence

Client:

Aquatek Fillration & Pump Service, Inc 240 Shrewsbury St Boylston, MA 01505-1403

ReportDate:

12/14/2020

Certificate of Analysis

CRL-Inc., 3 Dogwood Rd., Duxbury MA

Parameter	Method	Result	MCL	MRL	Date of Analysis	Analyst
- Outside faucet						
Sampled: 12/4/2020 3:00:00 PM by				411	40/4/0000 (-F0-00 D)4	*******
Total Coliform Bacteria, /100ml	ENZ, SUB, SM9223	Absent	Absent	Absent	12/4/2020 4:50:00 PM	M-MA1118
Arsenic, MG/L	EPA 200.9	ND	0.01	0.001	12/7/2020	M-MA1118
Calclum, MG/L	EPA 200.7	20.6	Not Spec	0,2	12/7/2020	M-MA1118
Copper, MG/L	EPA 200.7	ND	1.3	0.004	12/7/2020	M-MA1118
Iron, MG/L	EPA 200.7	ND	0.3	0.004	12/7/2020	M-MA1118
Lead, MG/L	EPA 200,9	ND	0.015	0.001	12/7/2020	M-MA1118
Magneslum, MG/L	EPA 200.7	0.3	Not Spec	0.1	12/7/2020	M-MA1118
Manganese, MG/L	EPA 200.7	ND	0,05	0.004	12/7/2020	M-MA1118
Potassium, MG/L	EPA 200.7	1.1	Not Spec	0.1	12/7/2020	M-MA1118
Selenium, MG/L	EPA 200.5	ND	0.05	0.001	12/10/2020	M-MA1118
Sodium, MG/L	EPA 200.7	27.7	See Note	0.2	12/7/2020	M-MA1118
Alkalinity, MG/L	SM 2320B	54	Not Spec	1	12/4/2020	M-MA1118
Ammonia as N, MG/L	SM 4500-NH3	ND	Not Spec	0.1	12/7/2020	M-MA1118
Chloride, MG/L	EPA 300.0	37.2	250	1	12/4/2020	M-MA1118
Chlorine, Free Residual, MG/L	SM 4500-CL-G	ND	4.0	0.02	12/4/2020	M-MA1118
Color Apparent, CU	SM 2120B	0	16	0	12/4/2020	M-MA1118
Conductivity, UMHOS/CM	SM 2510B	261	Not Spec	1	12/4/2020	M-MA1118
Fluoride, MG/L	EPA 300.0	ND	4	0.1	12/4/2020	M-MA1118
Hardness, Total, MG/L	SM 2340B	63	Not Spec	1	12/7/2020	M-MA1118
Nitrate as N, MG/L		0.11	10	0,05	12/4/2020	M-MA1118
Nitrite as N, MG/L	EPA 300.0	ND	1	0.02	12/4/2020	M-MA1118
Odor, TON	EPA 300.0		3	0	12/4/2020	PN
AND DESCRIPTION	SM 2150B	0	6,5 - 8,5	NA	12/4/2020	M-MA1118
pH, PH AT 25C	SM 4500-H-B	8.4		NEG	12/4/2020	PN
Sediment, posineg	***************************************	NEG		1	12/4/2020	M-MA1118
Sulfate, MG/L	EPA 300,0	10.5	260	1	12/11/2020	M-MA1118
Total Dissolved Solids, MG/L	SM 2540C	152	500	0.1	12/4/2020	M-MA1118
Turbidity, NTU	EPA 180.1	0.45	Not Spec	100	12/8/2020	M-MA072
Radon, PCI/L	EPA 913.0	ND	10000	700	Imaria	

MCL=Maximum Contaminant Level (EPA Limit), MRL = Minimum Reporting Level Sodium Guidelines - Mass 20, EPA 250, # = Result Exceeds Limit or Guideline ND = None Delected (<MRL), *= Background Bacteria Noted, J=Estimated Value Analysis performed according to 310CMR42.00 Massachusells Cerlifled

Laboratory #M-MA1118

David L. Knowlon Laboratory Director Page 1 of 3

Tel: 978-391-4428

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Client:

Aquatek Filtration & Pump Service, Inc 240 Shrewsbury St Boylston, MA 01505-1403 ReportDate:

12/14/2020

Certificate of Analysis

CRL-Inc., 3 Dogwood Rd., Duxbury MA

Parameter	Method	Result	MCL	MRL	Date of Analysis	Analyst
1,1,1,2-TETRACHLOROETHANE, UG	ILEPA 524.2	ND		0.6	12/8/2020	M-MA072
1,1,1-TRICHLOROETHANE, UG/L	EPA 524.2	ND	200	0.5	12/8/2020	M-MA072
1,1,2,2-TETRACHLOROETHANE, UG	LEPA 524.2	ND		0.5	12/8/2020	M-MA072
1,1,2-TRICHLOROETHANE, UG/L	EPA 524.2	ND	5	0.5	12/8/2020	M-MA072
1,1-DICHLOROETHANE, UG/L	EPA 524.2	ND	-	0.5	12/8/2020	M-MA072
1,1-DICHLOROETHYLENE, UG/L	EPA 524.2	ND	7	0.5	12/8/2020	M-MA072
1,1-DICHLOROPROPENE, UG/L	EPA 524.2	ND		0,6	12/8/2020	M-MA072
1,2,3-TRICHLOROBENZENE, UG/L	EPA 624.2	ND	••	0.5	12/8/2020	M-MA072
1,2,3-TRICHLOROPROPANE, UG/L	EPA 524.2	ND	**	3.0	12/8/2020	M-MA072
1,2,4-TRICHLOROBENZENE, UG/L	EPA 524.2	ND	70	0.5	12/8/2020	M-MA072
1,2,4-TRIMETHYLBENZENE, UG/L	EPA 524.2	ND		0.5	12/8/2020	M-MA072
1,2-DICHLOROETHANE, UG/L	EPA 524.2	ND	6	0.5	12/8/2020	M-MA072
1,2-DICHLOROPROPANE, UG/L	EPA 524.2	ND	. 5	0.5	12/8/2020	M-MA072
1,3,5-TRIMETHYLBENZENE, UG/L	EPA 524.2	ND	••	0.5	12/8/2020	M-MA072
1,3-DICHLOROPROPANE, UG/L	EPA 524.2	ND	-	0.5	12/8/2020	M-MA072
1,3-DICHLOROPROPENE, UG/L	EPA 524.2	ND		0.5	12/8/2020	M-MA072
2,2-DICHLOROPROPANE, UG/L	EPA 524.2	ND	-	0.5	12/8/2020	M-MA072
ACETONE, UG/L	EPA 524.2	28.2	••	10	12/8/2020	M-MA072
BENZENE, UG/L	EPA 524.2	ND	5	0.5	12/8/2020	M-MA072
BROMOBENZENE, UG/L	EPA 524.2	ND		0,5	12/8/2020	M-MA072
BROMOCHLOROMETHANE, UG/L	EPA 524.2	ND		0.6	12/8/2020	M-MA072
BROMODICHLOROMETHANE, UG/L	EPA 624.2	ND		0.5	12/8/2020	M-MA072
BROMOFORM, UG/L	EPA 524.2	ND		0.6	12/8/2020	M-MA072
BROMOMETHANE, UG/L	EPA 524.2	ND		0.5	12/8/2020	M-MA072
CARBON TETRACHLORIDE, UG/L	EPA 524.2	ND	6	0.5	12/8/2020	M-MA072
CHLORODIBROMOMETHANE, UG/L	EPA 624.2	ND		0.6	12/8/2020	M-MA072
CHLOROETHANE, UGIL		ND		0.5	12/0/2020	M-MA072
CHLOROFORM, UGIL	EPA 524,2	ND		0.5	12/8/2020	M-MA072
CHLOROMETHANE, UG/L	EPA 524.2	ND		0.5	12/8/2020	M-MA072
CIS-1,2-DICHLOROETHYLENE, UG/L	EPA 524.2	ND	70	0.5	12/8/2020	M-MA072
JOETH LENE, UG/L	EPA 524.2	140				

MCL=Maximum Contaminant Level (EPA Limit), MRL = Minimum Reporting Level Sodium Guidelines Mass 20, EPA 250, # = Result Exceeds Limit or Guideline ND = None Detected (<MRL), * = Background Bacteria Noted, J=Estimated Value Analysis performed according to 310CMR42,00 Massachusells Certified Laboratory #M-MA1118

David L. Knowlon Laboratory Director

Said L. Chumutter

Page 2 of 3

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12/14/2020

Certificate of Analysis

CRL-Inc., 3 Dogwood Rd., Duxbury MA

Parameter	Method	Result	MCL	MRL	Date of Analysis	Analyst
DIBROMOMETHANE, UGIL	EPA 524.2	ND		0,5	12/8/2020	M-MA072
DICHLORODIFLUOROMETHANE, UC	G/LEPA 524.2	ND	-	0.5	12/8/2020	M-MA072
DICHLOROMETHANE, UG/L	EPA 524.2	ND	6	0.5	12/8/2020	M-MA072
ETHYLBENZENE, UG/L	EPA 524.2	ND	700	0.5	12/8/2020	M-MA072
FLUOROTRICHLOROMETHANE, UG	/L EPA 624.2	ND		0,5	12/8/2020	M-MA072
HEXACHLOROBUTADIENE, UG/L	EPA 524.2	ND	-	0,5	12/8/2020	M-MA072
ISOPROPYLBENZENE, UG/L	EPA 524.2	ND		0.5	12/8/2020	M-MA072
M-DICHLOROBENZENE, UG/L	EPA 524.2	ND		0.6	12/8/2020	M-MA072
METHYL ETHYL KETONE (MEK), UG	B/LEPA 524.2	ND	-	0,5	12/8/2020	M-MA072
METHYL TERTIARY BUTYL ETHER,	U EPA 524.2	ND	-	0.5	12/8/2020	M-MA072
MONOCHLOROBENZENE, UG/L	EPA 524.2	ND	100	0.5	12/8/2020	M-MA072
NAPHTHALENE, UG/L	EPA 524,2	ND	••	0.5	12/8/2020	M-MA072
N-BUTYLBENZENE, UG/L	EPA 524.2	ND		0,5	12/8/2020	M-MA072
N-PROPYLBENZENE, UG/L	EPA 524.2	ND	••	0.5	12/8/2020	M-MA072
O-CHLOROTOLUENE, UG/L	EPA 524.2	ND		0.5	12/8/2020	M-MA072
O-DICHLOROBENZENE, UG/L	EPA 524,2	ND	600	0.5	12/8/2020	M-MA072
PARA-DICHLOROBENZENE, UG/L	EPA 524.2	ND	5	0.5	12/8/2020	M-MA072
P-CHLOROTOLUENE, UG/L	EPA 524.2	ND		0.5	12/8/2020	M-MA072
P-ISOPROPYLTOLUENE, UG/L	EPA 524.2	ND		0.5	12/8/2020	M-MA072
SEC-BUTYLBENZENE, UG/L	EPA 524.2	ND		0.5	12/8/2020	M-MA072
STYRENE, UG/L	EPA 524.2	ND	100	0.5	12/8/2020	M-MA072
TERT-BUTYLBENZENE, UG/L	EPA 524.2	ND		0.5	12/8/2020	M-MA072
TETRACHLOROETHYLENE, UG/L	EPA 524.2	ND	5	0.5	12/8/2020	M-MA072
TOLUENE, UG/L	EPA 524.2	ND	1000	0.5	12/8/2020	M-MA072
TRANS-1,2-DICHLOROETHYLENE, U	GEPA 524.2	ND	100	0.5	12/8/2020	M-MA072
TRICHLOROETHYLENE, UG/L	EPA 524.2	ND	5	0.5	12/8/2020	M-MA072
VINYL CHLORIDE, UG/L	EPA 624.2	ND	2	0.5	12/8/2020	M-MA072
XYLENES (TOTAL), UG/L	EPA 524,2	ND	10000	0.6	12/8/2020	M-MA072

MCL=Maximum Contaminant Level (EPA Limit), MRL = Minimum Reporting Level Sodium Guidelines- Mass 20, EPA 250, # = Result Exceeds Limit or Guideline ND = None Detected (<MRL), • = Background Bacteria Noted, J=Estimated Value Analysis performed according to 310CMR42.00 Massachusetts Certified Leboratory #M-MA1118

Dayld L. Knowllon Laboratory Director

Page 3 of 3

EXHIBIT F

ENVIROTECH LABORATORIES, INC. MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563 (508)888-6460 1-800-339-6460 FAX (508)888-6446

Client Name:

Jim Watt Arisian Well LLC

Location:

Address:

569 Center St

3 Dogwood Lane

Pembroke, MA

Duxbury

02333

Lab Number:

DW-214532

Collected By:

Tyler

Date Received:

09/16/21

Sample Type:

new well

Well Specs:

Date Collected 09/15/21	Time Collected 13:15	3.57	Comments			
Units	Recommended Limits	Analysis Result	Method	Date Analyzed	Analyzed By	
CFU/100mL	0	0, BG 0	SM9222B	09/16/2021	KF @ 1545	
	6.5-8.5	6.70	SM 4500-H-B	09/16/2021	SD	
	500	2520	EPA 120.1	09/16/2021	SD	
	1.00	<0.006	EPA 300.0	09/17/2021	SD	
	10.0	1.30	EPA 300.0	09/16/2021	SD	
	20.0	230	EPA 200.7	09/17/2021	KB	
** ************************	0.3	0.33	EPA 200.7	09/17/2021	KB	
	0.05	0.013	EPA 200.7	09/17/2021	KB	
****** WATE	20.0	11	EPA 200.7	09/17/2021	КВ	
man a contract to the	N/A	200	EPA 200.7	09/17/2021	KB	
	N/A	30	EPA 200.7	09/17/2021	KB	
	50-200	623	SM 2340 B	09/17/2021	KB	
	200	78.9	SM 2320B	09/16/2021	SD	
	250	20	EPA 300.0	09/16/2021	SD	
	250	760	EPA 300.0	09/17/2021	SD	
NTU	5.0	3.59	SM 2130B	09/16/2021	SD	
APC units	15	<5	SM 2120B	09/16/2021	SD	
	N/A	1.7	SM5550B	09/20/2021	CLM	
	50	76	Calculation	09/17/2021	SD	
	09/15/21 Units CFU/100mL pH units umhos/cm mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/	09/15/21 13:15 Units Recommended Limits CFU/100mL 0 pH units 6.5-8.5 umhos/cm 500 mg/L 1.00 mg/L 10.0 mg/L 20.0 mg/L 0.05 mg/L N/A mg/L N/A mg/L 50-200 mg/L 250 mg/L 250 NTU 5.0 APC units 15 mg/L N/A	09/15/21 13:15 Analysis Result CFU/100mL 0 0, BG 0 pH units 6.5-8.5 6.70 umhos/cm 500 2520 mg/L 1.00 <0.006	Date Contested 13:15 13:15 Units Recommended Limits Analysis Result Method CFU/100mL 0 0, BG 0 SM9222B pH units 6.5-8.5 6.70 SM 4500-H-B umhos/cm 500 2520 EPA 120.1 mg/L 1.00 <0.006 EPA 300.0 mg/L 10.0 1.30 EPA 300.0 mg/L 20.0 230 EPA 200.7 mg/L 0.3 0.33 EPA 200.7 mg/L 20.0 11 EPA 200.7 mg/L 20.0 11 EPA 200.7 mg/L N/A 200 EPA 200.7 mg/L N/A 30 EPA 200.7 mg/L N/A 30 EPA 200.7 mg/L N/A 30 EPA 200.7 mg/L 50-200 623 SM 2340 B mg/L 250 20 EPA 300.0 mg/L 250 760 EPA 300.0 mg/L 250 760 EPA 300.0 NTU 5.0 3.59 SM 2130B mg/L 250 760 EPA 300.0 NTU 5.0 3.59 SM 2120B mg/L N/A 1.7 SM5550B mg/L N/A 1.7 SM5550B Contestion NTO NT	Date Control 13:15 13:15 Units Recommended Limits Analysis Result Method Date Analyzed CFU/100mL 0 0, BG 0 SM9222B 09/16/2021 pH units 6.5-8.5 6.70 SM 4500-H-B 09/16/2021 umhos/cm 500 2520 EPA 120.1 09/16/2021 mg/L 1.00 <0.006 EPA 300.0 09/17/2021 mg/L 10.0 1.30 EPA 300.0 09/17/2021 mg/L 20.0 230 EPA 200.7 09/17/2021 mg/L 0.3 0.33 EPA 200.7 09/17/2021 mg/L 20.0 11 EPA 200.7 09/17/2021 mg/L 20.0 11 EPA 200.7 09/17/2021 mg/L N/A 200 EPA 200.7 09/17/2021 mg/L N/A 30 EPA 200.7 09/17/2021 mg/L N/A 30 EPA 200.7 09/17/2021 mg/L 50-200 623 SM 2340 B 09/17/2021 mg/L 250 760 EPA 300.0 09/16/2021 mg/L 250 760 EPA 300.0 09/16/2021 mg/L 250 760 EPA 300.0 09/17/2021 mg/L 250 760 EPA 300.0 09/16/2021 mg/L 250 760 EPA 300.0 09/16/2021 NTU 5.0 3.59 SM 2130B 09/16/2021 mg/L N/A 1.7 SM5550B 09/20/2021 M/A 1.7 M/A 1.7	

Malafaan Saari Ronald J. Saari

ENVIROTECH LABORATORIES, INC. MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563 (508)888-6460 1-800-339-6460 FAX (508)888-6446

Client Name:

Jim Watt Arisian Well LLC

Location:

Address:

569 Center St

3 Dogwood Lane

Pembroke, MA

Duxbury

02333

Collected By:

Tyler

Lab Number: Date Received:

DW-214532 09/16/21

Sample Type:

new well

Well Specs:

Location Source	Time Collected		Comments				
Analysis Requested	09/15/21 <i>Units</i>	Recommended Limits	Analysis Result	Method	Date Analyzed	Analyzed By	

Comments:

Sodium indicates possible salt water intrusion or road salt run off.

Iron level is not a health hazard.

Total Hardness results indicate water is very hard to calcium carbonate concentration.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met,

unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

Emaloy Jaan

Ronald J. Saari Laboratory Director

EXHIBIT G

Дентомительн	ACCORDANGE OF THE PARTY OF THE						PORT TO STATE OF THE PARTY OF T
J	. A. WcCı	ue	ALTERNATION OF THE PROPERTY OF		april 100 per la	Page 1 of 1	
W	ELL DRILL	ING, TEST E	BORING			HOLE NO. B-1	
71	Water Stre	et, Pembrok	e MA			LINE & STATION	
(7	81)826-923	5				OFFSET	
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PROJE	ECT NAME	Proposed w	ater well			BORING FOREMAN J. McCue	weeks the combined shadow stores.
	STARTED	3/15/2022	Committee of Commi			INSPECTOR	
DATE	FINISHED	3/15/2022		STATE OF THE PARTY			engarcurya de parcolero de la constanción de la
SCALE	SAMPLE D	THE PARTY OF THE P	30" BLOWS	STRATA		FIELD CLASSIFICATION	SAMPLE
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15'	70070000000000000000000000000000000000	Military and the second second					
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REMARK	(S:	Used a Mobi	ile drill B-61HD drill	rig with 2	24,000 lb m	ax down force, 6" solid stem augers	
						The second secon	

PROPORTIONS USED: TRACE = 0 to 10% SOME = 10 to 35% AND = 35 to 50%

SULLIVAN & COMERFORD, P.C.

ATTORNEYS AT LAW 80 WASHINGTON STREET BUILDING B, SUITE NO. 7 NORWELL, MA 02061 (781) 871-6500 Fax (781) 792-3993

WALTER B. SULLIVAN ANITA J. COMERFORD KAYLA A. SEPULVEDA KATHLEEN H. HEFFERNAN

April 28, 2022

Mr. Conor & Mrs. Meghan Quinn 1 Dogwood Drive Duxbury, MA 01568

Re: Variance Request to waive requirements of Private Well Regulations Town of Duxbury (PWRTD), Section 2.06.3 (g) by Owners of 3 Dogwood Drive to locate Private Well 100 ft. instead of 150 ft from Leaching Facility

Dear Mr. & Mrs. Quinn:

Your neighbors, Graham and Stephanie Chevry, 3 Dogwood Dr., are requesting from Duxbury Board of Health a variance or waiver from Duxbury Drinking Water Town of Duxbury Section 2.06.3 (g). They are requesting to locate a private well 100 ft. and not 150 feet from a leaching facility but still in accordance with Title 5 Regulations.

The Duxbury Board of Health will hold a hearing on this matter on May 19, 2022, by Zoom at 7:00 PM. You are welcome and encouraged to join the hearing.

Pursuant to Governor Baker's Chapter 20 of the Acts of 2021 dated June 16, 2021, An Act Extending Certain COVID-19 Measures Adopted During the State of Emergency regarding suspending certain provisions of the Open Meeting Law, G.L. c. 30A Section 18, this meeting will be conducted via remote participation. A link will be made available by the May 19, 2022, Agenda for the meeting found on the Board of Health website a few days before. You may also use the same link found in the attached 4/27/22 Agenda since they are the same.

Sincerely Yours,

Kathleen H. Heffernan

Attorney for Graham and Stephanie Chevry

3 Dogwood Drive

Duxbury, MA



SULLIVAN & COMERFORD, P.C.

ATTORNEYS AT LAW
80 WASHINGTON STREET
BUILDING B, SUITE NO. 7
NORWELL, MA 02061
(781) 871-6500
Fax (781) 792-3993

WALTER B. SULLIVAN ANITA J. COMERFORD KAYLA A. SEPULVEDA KATHLEEN H. HEFFERNAN

April 28, 2022

Mr. Michael & Mrs. Brittnee Tucciarone 5 Dogwood Drive Duxbury, MA 01568

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Sincerely Yours,

Kathleen H. Heffernan

Attorney for Graham and Stephanie Chevry

3 Dogwood Drive

Duxbury, MA





GRADY CONSULTING, L.L.C.

Civil Engineers ♦ Land Surveyors ♦ Landscape Architects

3 Dogwood

April 19, 2022

Duxbury Board of Health 878 Tremont Street Duxbury, MA 02331

RE:

Dogwood Drive - Lot-I - Proposed well location

Applicant: Stephanie Chevry (Wisniewski)

Dear Board Members:

On behalf of the owner we hereby submit this application for a new well location. The existing well is currently producing water with high sodium levels and is not potable. Enclosed please find 3 sets of the Site Plan, dated April 7, 2022.

We hereby request the following Local Variance Approval Request:

Local Variance

2.0 Rules and Regulations For Private Wells

2.06.3(g) Reduction in potable well setback to leaching facility (S.A.S.) from the locally required 150-feet to 101.8-feet.

Due to the proximities of the Soil Absorption Systems of 1, 3, and 5 Dogwood Drive and the constraints of the rear property lines, It is our professional opinion that this Local Variance Approval request can be granted without compromising the degree of environmental protection, as the new well location still meets the minimum state setback from a well to a soil absorption system of 100-feet. The existing well is currently producing water with high sodium levels and is not potable. A second well location was attempted in 2021 which did not produce potable water, exhausting the available area on the locus property to place a well beyond the 150-ft setbacks to the locus and abutting septic systems.

If you have any questions please do not hesitate to call.

Sincerely,

GRADY CONSULTING, L.L.C.

Robert Carlezon

Robert Carlezon Project Designer

Enc.

Cc:

Stephanie Chevry (Wisniewski)

3 Dogwood Drive Duxbury, MA 02332

J:\2018\18-057\BOH\BOH Letter.Doc

[EXTERNAL] 2nd email 3 Dogwood Dr Variance Request

Kathleen Heffernan < kheffernan@sulsul.com>

Mon 4/25/2022 1:23 PM

To: Danielle M. Brandon

brandon@duxbury-ma.gov>

Dear Duxbury Board of Health:

Please find attached a letter to the BOH Members requesting a variance for the May 19, 2022, hearing date. Also attached are Exhibits A-H.

If you need anything else, please contact me at 781 871-6500.

Rob Carlezon from Grady Consulting, will also be sending in a letter for the same client: Grahm and Stephanie Chevry, 3 Dogwood Drive.

Thank you, Kathleen H. Heffernan 781 871-6500

Email Confidentiality Notice

The information contained in this e-mail message is intended only for the use of the individual or entity named above. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivery to the intended recipient, you are hereby notifued that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please immediately notify the undersigned and destroy the original message. Thank you.

IRS CIRCULAR 230 DISCLOSURE:

To ensure compliance with IRS regulations, we inform you that any U.S. federal tax advice contained in this transmittal (including any attachments) is not intended or written to be used, and cannot be used, for the purpose of (i) avoiding any federal tax penalties or (ii) in connection with any marketing or promotional materials.

Kathleen H. Heffernan Sullivan & Comerford, P.C. 80 Washington Street, Ste. 7 Norwell, MA 02061 Tel: (781) 871-6500

Fax: (781) 792-3993

email: kheffernan@sulsul.com

LEAP Email Reference |F:6712927d-d557-430f-a7ba-0fc7261b3508|M:7b84e60b-13a8-964b-a24e-d77f646c12d7| (Please do not delete)

SEPTIC SYSTEM AS-BUILT ASSESSORS MAP 004 BLOCK 013 LOT 013 #3 (LOT I) DOGWOOD DRIVE JAH 1 1 202! DUXBURY, MASSACHUSETTS INSTALLER: ELEVATIONS 100 WETLAND BUFFER CRL, INC. TOP OF FOUNDATION =116.98355 WAREHAM STREET, UNIT 5 =114.47 BLDG OUT MIDDLEBOROUGH =114.11 SEPTIC TANK IN =113.87SEPTIC TANK OUT =113.61 D-BOX IN D-BOX OUT TOP OF CHAMBER =113.43=113.75100' WETLAND BUFFER LOT - I OWILL 47,262± S.F. OR 1.085± ACRES J. GRADY BENCHMARK NAIL IN TREE ON LOT J ELEVATION = 112.00 150' WETLAND SETBACK (N.A.V.D. 88 DATUM) EXIST DECK EXISTING INSPECTION PORT FOUNDATION EXIST. GARAGE #3 (LOT 1) SLAB T.O.F. EL =115.81 EL = 116.98 74.0A 73.0A 115.7 SCH 46.3B 40 PVC EXIST. PORCH 23.9B 46,0C Ö Ó o 91.94 30.5C EXIST. 16.8B ASPHILT 1500 GALLON 37,8C D-BOX SEPTIC TANK DRIVERYAY VENT 24.5B 91.1A 89.9A 57.2B 36.9B 2-48' LONG x 34" WIDE X 16" DEEP LEACHING O014 -114- - €=66.94° S5735'05'W CHAMBER TRENCH SYSTEM WITH 2 ROWS OF 12 QUICK4 15.88 HIGH CAPACITY INFILTRATORS EXIST. EDGE OF PAVEMENT GWOOD DN EXIST. EDGE OF PAVEMENT 137.18 C Grady CONSULTING, L.L.C. OWNER/APPLICANT: Civil Engineers and Land Surveyors REVISED JANUARY 6, 202 USC LLC 355 WAREHAM STREET, UNIT 5 71 EVERGREEN STREET, SUITE 1 - KINGSTON, MA 02364 SEPTEMBER 9, 2020 MIDDLEBOROUGH, MA 02346 SCALE: 1"= 20' Tel. (781)585-2300 - Fox. (781) 585-2378 JOB No. 18-057