

RECEIPT # Payment Date: Date Printed: 2009CMD82679 03 Sep 2020 03 Sep 2020

Amount (\$)

Wild Goose Holdings Ltd. 121 Wright Road Salt Spring Island, BC V8K 2H8 Canada

### **OFFICIAL RECEIPT**

			Description	in Canadian Funds
751	71560400100	1650010	Sewerage Filing Gv20/283 For 182 & 184 Divine Drive - Paid By Cheque #000951	200.00
			Total Paid \$:	200.00
			Total Paid \$:	_

GST # 14092 6726

### PLEASE RETAIN FOR YOUR RECORDS A fee will be charged for Duplicate Receipts

Island Health Authorization:



diffe

The Vancouver Island Health Authority DBA Island Health 1952 Bay St. Victoria, BC Canada V8R 1J8



Revised April 2015

<u>A. 60</u>		
istand health SEWERAGE SYSTEM LET	ter of cert	TIFECATION
Filing#:	667-145	Date: Au 15# 2010
Civic Address: 18 184 Dewine Onine		9
Legal Description: Lot 12, Sections IT = 18, Rs	nee 4 East 1	Wood Salt Spring Island
Cousichen District, Plan 297	fot	. 1 3
The construction of the proposed sewerage system on the above	e property was co	mpleted on: Aug. 25# 2020
This system was installed:		
$\Box$ By or under the supervision <sup>*</sup> of a professional	Name:	Registration #:
W By a Registered Onsite Wastewater Practitioner Installer	Name: R.A.	Hickman Registration #: OW0055
□ By the property Owner under the supervision* of	Name:	Registration#:
I am an "Authorized Person" as defined in the Sewerage System the undersigned on this document certifies that:	m Regulation "BO	C Reg. 326/2004." The signature and seal of
<ul> <li>A copy of the sewerage system plans and specifications</li> <li>A maintenance plan for the sewerage system that is cons</li> <li>A copy of this Letter of Certification as filed with the He</li> </ul> 2. The sewerage system has been constructed in accordance w Filing Form filed on (date)	sistent with standa ealth Authority; rith standard pract	rd practice; ice as indicated in the Sewerage System
3. Whe sewerage system has been constructed substantially in Health Authority;	accordance with t	he plans and specifications filed with the
4. The estimated daily domestic sewage flow through the sew	erage system will	be less than 22,700 liters;
5. If operated and maintained as set out in the maintenance planard.		
Where the authorized person is a professional, "supervision" means con professional in his or her professional discretion considers necessary to as specifications filed with the Health Authority.	ducting field reviews o certain whether the o	of the construction of the above system that the onstruction substantially complies with the plans and
Appended to this document is a plan of the sewerage system	n as it was built :	and a copy of the maintenance plan.
Name (please print): R. Apply, Hickman	Health Authority Use Only	
Signature: R. Hickoon.		
Authorized Person's Seal		Island Health Environmental Health-Victoria DATE RECEIVED SEP 3 2020
S S S S S S S S S S S S S S S S S S S		Recound By

(VIHA Sta Signature)

Received By

Statement in	1 100. 10		-
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States 2	1 N.Y.	12.30	123
- 10 H	C 100 NO	A Design	a Decision

# **RECORD OF SEWERAGE SYSTEM**

	land healt			Filing # (OF	FICE USE		GV2	0/283
	Property	New Construction	Alteration	Repair			iment – Original I	
			764 000755				60-667	
	<b>1</b> ,	Legal Description (Plan, North Salt Sp	Lot, District Lot, Block Maing Island Car	Numbers) Lot	istriet,	ections ( Plan 2	1018, Rana 1704	e H East,
		Street (Civic) Address of 182184 Dewin				City Solt S	spring Labor	I, B.C.
2.	Owner Information	Name of Legal Owner	Bob Patterson Patrick Culler		Mailing A	ddress 1 Divine	Drive	
		Phone 250-221.		balt Sprin	soles e	d .	Prov B.C	Postal Code
	Authorized Person Information		Hickman		Mailing A	Iddress R	and	
		Phone 250-537	-6609 City 8	salt Sprin	ng Esla	net	Prov B.C.	Postal Code
		Registration # OW	2200	Email 🔪	attebe	y 47 at 1	Gracil.com	n
4.	Structure Information	Sewerage System Will Serve:						
		The sewerage system is designed for an estimated minimum daily domestic sewage flow of (check one) Less than or equal to 9,100 litres  More than 9,100 litres but less than 22,700 litres						
5.	Site Information	Depth of native soil to high water table or res	strictive layer (cm) 90	10801	soil is atta	ched	he type, depth an	d porosity of the Mar Yes □ No
_		GPS Location of System (decimal degrees)       Latitude 48° 56°10° M       Longitude 123° 19° 50° W         Horizontal Accuracy (m)       E       Recreational GPS       Differential GPS						
6	Drinking Water Protection	Will the sewerage system be located less than 30 m from a well?       If Yes       Yes       No         If yes, attach a professional's report and specify the intended distance						
7	System Information	Sewerage treatment method V Type 1 V Type 2 Type 3						
8	Legal or Regulatory Considerations	Construction of the proposed sewerage system will not conflict with legal instruments registered on the property. Is this filing submitted as the result of an order from the Health Authority?						
9	Plot Plan and Specifications	IN The plans and spe	nd specifications are atta ecifications are consisten rd Practice: S Ministr	t with Standard		tice Manual	D Other	S Yes D N
1	0. Authorized Person's Signature	Signature R.A	Hicknon.				OFFICE USE O	
		Date Aug	25 1 /2020			Receipt Num	ber SAC MD	B2679

Specifications for a Replacement Severage System for Duplex at 182/184 Devine Drive, Salt Spring Island This system is designed to serve a finished living area of up to 3500 ft (330 m²) and a total of 4 bedrooms Daily Design Flow (DDF) is therefore 1600 litres per day (350 gpd) as per Table II-8, SP Manual Version 3. The existing septic system, installed in 1975, has failed, due largely to the fact that the two small (600 gallon) single chamber teaks had no etilluent filters, and had never been pumped until very recently. One tank actually had to be due out because of the thickness of the top layer, and the laterals had filled with biomass over the years. The soil around the original treaches, however, was in good condition, and new laterals were installed in between the original trenches, as there was angle wight on the beaches. Drainage in this area is good, so no interceptor trenching was required. The soil was tound to have good root practication, and texture is a strong sandy loan, so a conservative has been installed, and a Flow tank delivers a full Flood Dose to a Premier Distribution box using a b pressure gradient. sperous and of each tatent independent THE supended & performent pipe Standpipes are at the end of each tatent ING ACCEPTED Lone established and ane clasted. Trestang or present of a point and restrational bench has a H' Observation well Septic Tank is a Premier Plastics STS 1125 gullon double change of very strater and the change of the constraint of Further Subdition of the constraint of the subdition of the constraint of th Flast Tenk is a Prenser Plastics model 130 with a preset 15 gallon dose (30 HATT Field Sizing: Area of Intiltrative Surface is DOF of 1600 Job over HUR of 23 Jod ma yields 59 metres by a trench wielth of A meters yields 66 meters or 215 linear text Ports Spees: (all parts CSA approved) 1x1125 gallon double chamber Premier Plastics septic tank - 1x MIJO Premier Plastics Flosting Outlet tank : pressure treated custom boxes for tank hatel access PixTe words 220 4x4 ; words OP "Hx L; askil "Hx L; saig source biles "Hx OB elbous: 2×4 solid source pipe: 2×1 miles 2×3 solid source pipe; 6×3 45 elboussid × 20 elbous: 2×4 "Swift espinectore: 220'x3 solid source pipe; 6×3 45 elboussid × 20 elbouss: 6×3 45 elbous: 12×3 connectors: 4×3 Swift connectors, 5×2 A threeded cups e alle adapters (miner pipes): 225 (43 pieces) of Are 36 internation MON Are 36 end caps: 2×4 abservation well assemblies: 2×6 hole Premier Plastics 0-box pressure treated custom access box for distribution box: 2 pueres × 14 20 box Lies: 0 1x 25 kg suck of grass seed.



# Gravity Dosing with **FLOUT**®

# THE FLOATING OUTLET PACKAGE FOR ONSITE SEPTIC FIELDS

## Simple and dependable alternative

- No Electricity No Standby Volume
- Gravity or Pressure Septic Fields
- Prepackaged No Field Assembly

### FEATURES

- \* No bearings, seals, valves or priming required.
- \* No scheduled service or maintenance.
- \* Operates with gravity and buoyancy. Resists freezing.
- ★ Maximum backfill depth 4ft.
- \* Can service fields 2ft to 200ft below septic tank
- \* Works with any type of septic tank or treatment system.
- Four packaged tank sizes for preset calibrated doses up to 90 gals, 138 gals, 192 gals or 330 gals.
- \* Certified by Washington State DOH. (Septic tanks)



The FLOUT® Dosing System offers a simple, self-contained and trouble free method of delivering intermittent aerated flow to flood dosed and pressure dosed septic fields. Premier FLOUT® Dosing Tanks are completely pre-assembled, dose calibrated and ready for installation. Sites where the distribution field can be located at a lower elevation than the septic system discharge can avoid the cost and complexity of pumped delivery – saving on standby volume, pumps, wiring, controls, installation and maintenance. The performance of basic trickle leach fields can be significantly enhanced with flood dosing.

FLOUT® is a trade name of Rissy Plastics Inc. Torrington CT.



# THREE STATIC HEAD DOSING METHODS

- FLOOD DOSING Static Head 1 ft. to 4 ft. 5/8" orifices facing down. Flout discharge to D-Box and 3" or 4" laterals with 1/2" or
- SOFT PRESSURE DOSE Static Head 2 ft. to 8 ft. Squirt height range 0.5 ft. to 2 ft. Manifold feeds 2" laterals with 1/4" or 3/8" orifices facing up. Flout discharge through 2" transport pipe to 2" manifold
- ω FULL PRESSURE DOSE - Static Head 6 ft. and up. Squirt height range 2 ft. and up. Manifold feeds 1 1/4" laterals with 1/8" to 7/32" orifices. Flout discharge through 2" transport pipe to 2" manifold.





ISLAND HEALTH FILING ACCEPTED Sewerage System Maintenance for: 1820 184 Devins Drive This Filing Does Not Constitute Approval for Further Subdivision

A **reserve field area** has been identified in your sewerage filing plan, please note that this area must be protected from traffic and/or building. The **existing field area** is to be kept clear, no vehicle traffic and no material storage. These areas have been seeded to grass and should be left that way.

### Certain substances should not be introduced to your septic system

- 1. Keep grease and oil levels low
- Do not flush: diapers, cigarette butts, coffee grounds, tampons, plastics, condoms, dental floss, cat litter, paper towels, or bones.
- Do not pour: solvents, point and thinners, antifreeze, granular drain cleaner, medications, antibiotics or anti-bacterial products.
- Your system will accept small amounts of bleach; a liquid phosphate free laundry soap must be used in the washing machine.
- 5. Please try to conserve water; do not leave fixtures running, and watch for leaks.
- 6. The use of garburator systems is discouraged as it increases TSS (total suspended solids) amounts and requires more frequent cleaning of your effluent filter and tank pump outs.
- 7. This system is designed for a capacity of: \_\_\_\_\_\_\_ litres per day, \_\_\_\_\_\_\_\_ gallons per day and not to be exceeded.
- 8. Sewerage System Regulations require that the owner keep records of all maintenance carried out, including inspection and pumping data.
- This system should be inspected after 6 months of use. After the initial inspection, the septic tank should be checked at 5 year intervals and pumped out when 60% of liquid is sludge and scum. Effluent filter is to be cleaned every 12 months.



CONTACT INFORMATION
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ISLAND HEALT SEP - 3 2727 This Filing Dogs Noi Constitute Septic tank inspection and/or pump-out Approval for Further Subdivision All Out Septic - Cal Mills 250 537 8450 All Islands Septic Ltd. - Rob Roodenburg (ROWP) 250 538 7867 Dave Milner Certified Septic Inspections (ROWP) 250 653 4636 Designer/Installer R. Andy Hickman (ROWP) 250 537 6609 Effluent Pump or Flour Tank Information Iconic Waterworks Limited Partnership 250 746 8877 at Alarm System or Pump Switching at For Grinder Pump or Guest House at

Note: All tankage, pipe and components in this system are CSA approved and guaranteed for 2 years. Should your system be negatively affected because of failure to adhere to the guidelines included in this maintenance schedule, your Installer (ROWP #OW0055) will not accept any warranty responsibility for resulting repairs to the system.

I have read this Maintenance Plan and information, and will follow these guidelines for the proper operation of this Sewerage System

Owner:	X
	11810
Planner/Installer: _	12 Affile







# Information for Homeowners



If so, you are in good company. There are 27,000 septic systems in the capital region and that number increases annually by more than 500 new installations.

Your septic system can provide effective, long-term wastewater treatment, right in your backyard. If your system is working properly, it is an environmentally friendly and economically sound treatment option.

### Out of sight — out of mind?

Unfortunately septic systems are out of sight. Many homeowners don't realize that there may be a problem until their system is already failing. It is estimated that up to 20 per cent of septic systems in our region are malfunctioning. The most common cause of failure is lack of maintenance.

Proper maintenance has a significant impact on how well your system works and how long it lasts. Your home is one of your most important investments. Taking care of your septic system is like an insurance policy on that investment.

Wastewater from your sinks, toilets and laundry drains through a pipe from your home into your septic tank. Your septic tank is designed to hold the wastewater long enough to allow solids to settle at the bottom and oil and grease to float to the top.

Natural bacteria in the tank start breaking down the solids; however, eventually the solids build up and must be pumped out. Regular pumping will reduce the amount of solids entering your drainfield and ensure proper drainage and treatment.

The partially treated wastewater from your tank flows through an outlet into a distribution box. The box evenly distributes the discharged wastewater into a network of pipes underneath the drainfield. The wastewater begins to percolate into the soil through small holes in the pipes. Natural filtration and microorganisms in the soil remove any remaining harmful particles in the wastewater. The treated and cleansed wastewater passes into the groundwater and returns to the water cycle.



### Signs of septic system failure

It is time to call a professional if you notice any of the following:

- Slowly draining sinks and toilets
- Gurgling sounds in the plumbing
- Unpleasant odours around your property
- Patches of lush growth over the drainfield
- Soggy or wet ground over the drainfield
- ✓ Sewage surfacing

### Why should I care for my septic system?

There are three main reasons for maintaining your septic system:

Save money. A failing septic system can be expensive to repair or replace. You can protect yourself against costly surprises through regular preventative actions like inspections and pumpouts of your system and by learning the do's and don'ts of septic care.

Protect the health of your family. A failing septic system can release inadequately treated household wastewater and offensive odours, often right in your backyard. Human wastewater contains disease causing organisms and can pose health risks to your family and your neighbours.

Protect water quality. We all depend on clean water. A septic system uses the environment to treat wastewater but may release untreated or partially treated wastewater if the system fails. Inadequately treated wastewater can pollute our creeks, lakes, shorelines and groundwater and can contribute to shellfish bed closures and contaminated drinking water supplies.

### How do I care for my septic system?

Your actions are the key to your system's longevity. Here are ten steps you can take to maintain your system:

- Locate your septic tank and drainfield. You will be prepared if there is a problem.
- Check the operation of your system annually. Look for signs of failure.

- Have your septic tank pumped regularly. Health authorities recommend pumping every three to five years. Combine the pump-out with a professional inspection.
- 4. If you have a package treatment plant, set up a contract for annual maintenance.
- Make sure your system has an <u>effluent filter</u> to reduce the amount of solids entering your drainfield.
- 6. Keep a running maintenance record.
- Reduce your water consumption. Too much water use will flush solids into your drainfield rather than have them settle in the tank.
- Use environmentally friendly cleaning products. Some chemicals can upset the proper balance of bacteria needed to provide primary treatment inside your tank.
- Recycle or properly dispose of hazardous products. Do not pour them down the drain or put them in the garbage.
- 10. Protect your drainfield by leaving it as undisturbed as possible. Do not drive or park on it. Landscape with grass rather than plants with roots that can damage your system.

### For more information

CRD Web site

www.crd.bc.ca/es/septic

### **CRD** Hotline

- 360-3030
- hotline@crd.bc.ca

### Vancouver Island Health Authority (VIHA)

- www.viha.ca/mho
- 250-475-1858

### BC Onsite Sewage Association

www.bcossa.com

### Ministry of Health Services

www.healthservices.gov.bc.ca/protect/ sewage.html



### LAUNDRY

Treatment systems are designed and tested assuming a normal laundry wash day. It is recommended that multiple wash loads be spread over several days. Multiple loads on one day may negatively affect the performance of the treatment system and cause a build up of sludge in the the drain field.

### **RENOVATIONS OR MODIFICATIONS**

The original On-site Sewage treatment system and drain field were designed for a specified daily stage flow, based on the number for bedrooms and the CHR On-Site Guidelines. Adding bedrooms or suites potentially increases the number of people using the sewage treatment system, which may cause harm and potential damage to the drain field. DO NOT add bedrooms or suites without receiving prior approval from the CHR Health Department.

### **ORGANIC WASTE**

Do not put it down the drain or toilet! Dispose of fruit, vegetables, and animal products through composing or the garbage.

### GARBURATOR

Garburator use increases both the organic matter and the water entering the treatment system. Unless the original Onsite Sewage Disposal Permit was issued and the treatment plant and drain field were designed for such an increase, the system may become overloaded and damage the drain field. All organic waste should be disposed or composted.

<u>Regular maintenance</u> of the system is very important to ensure that no environmental or public health hazards are created.

### **Preserving our Environment**

An on-site sewage treatment and disposal system will work properly provided the occupants take care in *not draining any harmful wastewater into the system*.

- Disinfectant or Bleach: use only in small quantities or use non-chlorine cleaners that are biodegradable.
- All Detergents: use only low-sudsing, biodegradable and preferably non-granular.
- Bath Paper Products: use only biodegradable toilet paper.
- <u>Granular Drain Cleaner</u>: should not be used—kills the bacterial action in the treatment system.
- Water Softeners: do not discharge into the system.
- <u>Oils, Grease, Solvents, Paints, Automotive fluids, etc:</u> do not discharge these products into the treatment system.

### NEVER PUT THE FOLLOWING INTO A SEWAGE SYSTEM:

- DISPOSABLE DIAPERS
- SANITARY NAPKINS OR TAMPONS
- METAL OBJECTS
- HOME-BREW WASTE
- CIGARETTE BUTTS
- CONDOMS
- RAGS
- PLASTICS
- PAPER TOWELS
- COFFEE GROUNDS
- BANDAGES
- MUD

# Infiltrator Discharge of Effluent



PM5\Overhead\PeterJ-1