



RECORD OF SEWERAGE SYSTEM

Filing # (OFFICE USE ONLY)

DC22/138

1. Property Information

☒ New Construction☐ Alteration☐ Repair☐ Amendment - Original Filing #Tax Assessment Roll #
Folio# 00872 - 000PID #
006-570-208

Legal Description (Plan, Lot, District, Lot, Block Numbers)

Lot 3, Section 16, Range 2, Quamichan District, PI 2462

Street (Civic) Address or General Location
3833 Gibbins Rd.City
Duncan, BC.

2. Owner Information

Name of Legal Owner
Steve and Jaclyn PoznecovMailing Address
3833 Gibbins RoadPhone
250-715-1748City
DuncanProv
BCPostal Code
V9L 6E8

3. Authorized Person Information

Name of Authorized Person
Stephen J. PurkissMailing Address
2430 Dragon Veiw PlacePhone
250-715-7585City
QuesnelProv
BCPostal Code
V2J 5Y4Registration #
OW0192Email
purkiss@telus.net

4. Structure Information

Sewerage System Will Serve:

PLUS CARRIAGE HOUSE

☒ Single Family Dwelling☐ Other Structure (specify)☐ Other Dwelling (specify)

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 seasonal high water table or restrictive layer (cm)
117 to 152 cmInformation respecting the type, depth and porosity of the soil is attached ☒ Yes ☐ No

GPS Location of System (decimal degrees) Latitude 48.77610 Longitude 123.76560

Horizontal Accuracy (m) 10

☒ Recreational GPS ☐ Differential GPS

6. Drinking Water Protection

Will the sewerage system be located less than 30 m from a well? ☐ Yes ☒ No

If yes, attach a professional's report and specify the intended distance NA (m)

Distance of proposed sewerage system to the closest body of surface water 30m (m)

7. System Information

Sewerage treatment method ☒ Type 1 ☐ 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? ☐ Yes (attach a copy of the order) ☒ No

9. Plot Plan and Specifications

Plot Plan (to scale) and specifications are attached ☒ Yes ☐ No☒ The plans and specifications are consistent with Standard PracticeSource of Standard Practice: ☒ Ministry of Health Standard Practice Manual ☐ Other

10. Authorized Person's Signature

Signature

Date

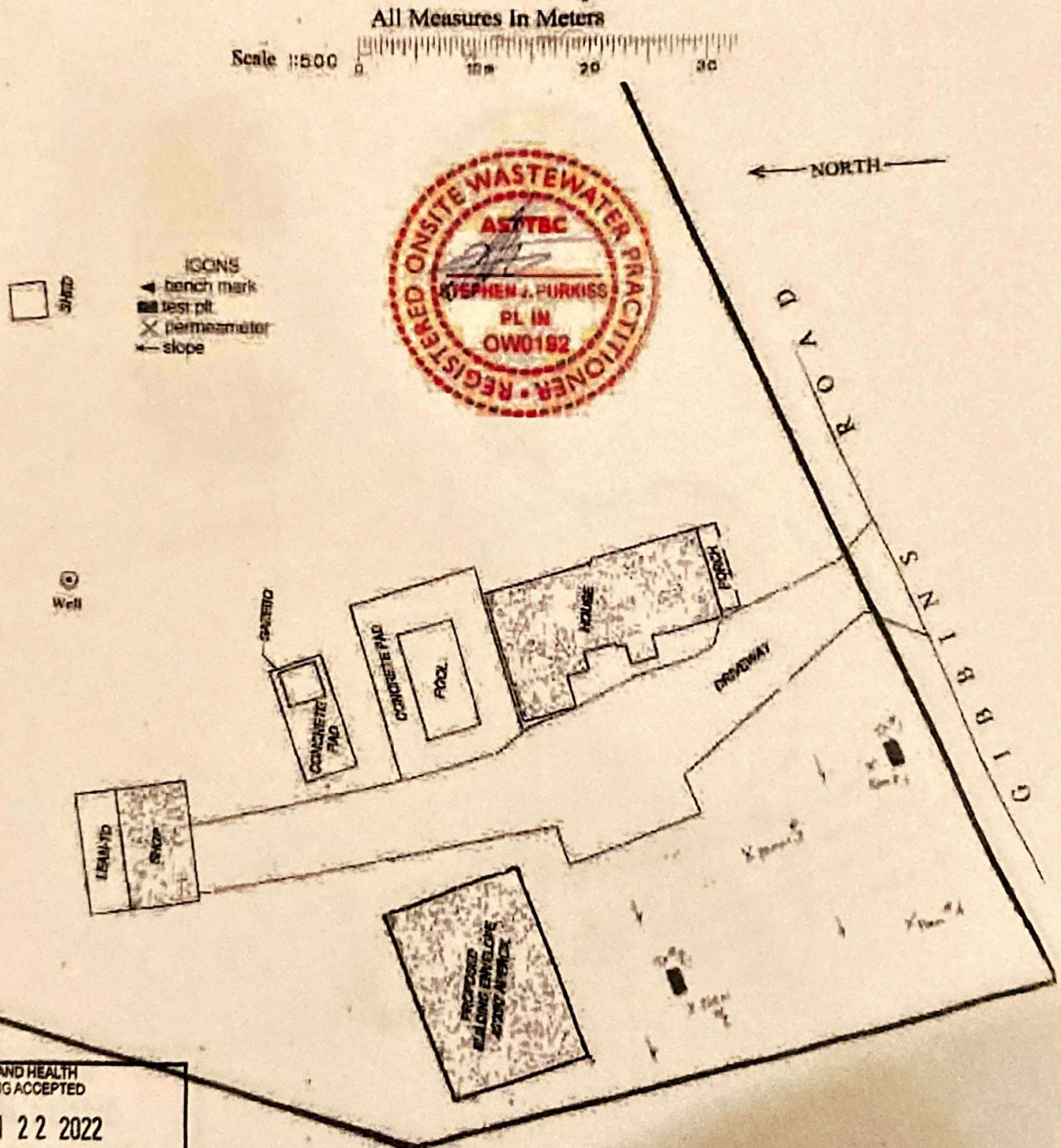
June 22 / 2022

OFFICE USE ONLY

Filing Accepted Date June 22/22

Receipt Number #200.00
#270531

Legal Description: Lot 3, Section 16, Range 2 Quamichan District Plan # 2462 PID. # 006 - 570 - 208 Filing #		Drawing By: S. Purkiss	
		Scale: 3 % LL @ BS	
		CPS: N. 48.77610 W. 123.76560 @ 10m	
Civic Address: 3833 Gibbins Road, Duncan, BC.		Drawing #: 2 of 2	Date: June 21/2022
Title: Soil Test Pits and Permeameter Holes			



ISLAND HEALTH
FILING ACCEPTED

JUN 22 2022

This filing Does Not Constitute
Approval for Further Subdivision

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Project

Poznerov @ 3833 Gibbins Rd., Duncan BC.
PID # 005 - 570 - 208

Pressurized System
Timed Dose - Analog Timer

Flows

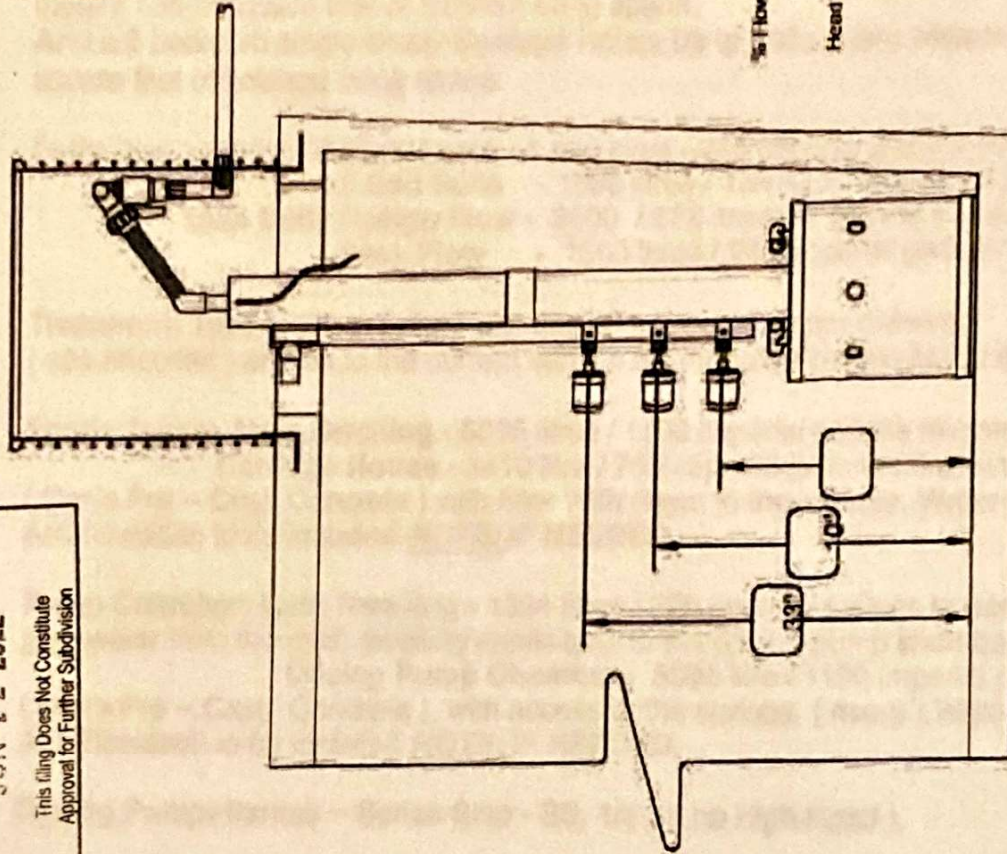
Total Dynamic Head: 27.5 Feet
GPM: 26.4 Gals.
Design Flow: 572 gpd

Floats

HWA/Override (YG): 33 Inches
Timer Off (R): 10 Inches

Timer Settings

Dose on demand by timer
Doses: 32 @ 17.88 Imperial gals / 81 litres
= 572 Imp. gals/day DDF
On Time: 41seconds
Off Time: 5 minutes to reset the indexing valve



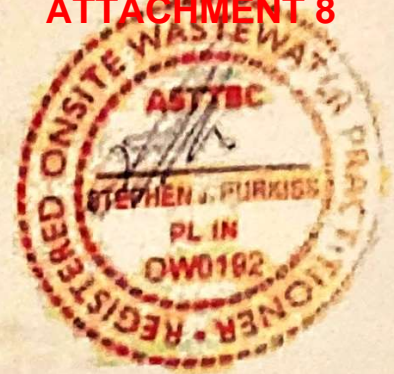
Input Parameters

Orifice Size 3/16 inches
Residual Head at Last Orifice 2.0 feet
Orifice Spacing 2.0 feet
Number of Laterals per Cell 8
Lateral Length 40.0 feet
Lateral Line Size 1.25 inches
Lateral Pipe Class/Schedule 40
Distributing Valve Model 6494
Manifold Line Length 20.0 feet
Manifold Line Size 1.50 inches
Manifold Pipe Class/Schedule 40
Lift to Manifold 15.0 feet
Transport Length 60.0 feet
Transport Line Size 2.00 inches
Transport Pipe Class/Schedule 40
Discharge Assembly Size 1.50 inches
Flow Meter None inches
Add-on Friction Losses 0.0 feet

Calculations

Minimum Flow Rate per Orifice 0.62 gpm
Number of Orifices per Zone 42
Total Actual Flow Rate 26.4 gpm
Number of Lines per Zone 2
% Flow Differential 1st and Last Orifice 0.0 %
Lift to Manifold 15.0 feet
Residual Head at Last Orifice 2.0 feet
Head Loss in Laterals 0.4 feet
Head Loss Through Distributing Valve 5.9 feet
Head Loss in Manifold 0.3 feet
Head Loss in Transport Pipe 1.9 feet
Head Loss Through Discharge 2.1 feet
Head Loss Through Flow Meter 0.0 feet
Add-on Friction Losses 0.0 feet
Total Flow Rate 26.4 gpm
TDH 27.5 feet

Pump Chamber: 5005litre / 1100 Imp. Gallon, (Dan's Pre-Cast Tank)
111 litre / 24 Imp. Gals. Per Inch @ Average inside Measure



Specifications List For: Steve and Jaclyn Poznecov

Civic Address: 3833 Gibbins Road, Duncan, BC.

Legal: Lot # 3, Section 16, Range 2, Quamichan District,
Plan # 2462 PID # 006 - 570 - 208.

Bedrooms: 4 bedroom single family dwelling up to 330 square meters / 3552 square feet of finished living space.
And a 2 bedroom single family Carriage House up to 240 square meters / 2584 square feet of finished living space.

Daily Design Flow: 4 Bed House - 1,600 litres / 286 imperial gallons per day.
2 Bed Suite - 1000 litres / 154 imperial gallons per day
Total Daily Design Flow - 2600 / 572 imperial gallons per day
Peak Flow - 1300 litres / 286 imperial gallons per day

Treatment: Type 1 with pressure distribution to trench, as per drawing
(see attached) and as to the current version 3 Standard Practice Manual.

Septic Tanks: Main Dwelling - 5005 litres / 1100 imperial gallons minimum,
Carriage House - 3410 litre / 750 imperial gallons minimum
(Dan's Pre - Cast, Concrete) with filter With risers to the surface. Water tested.
Anti floatation to be installed **NOTE: IF NEEDED.**

Pump Chamber: Main Dwelling - 1364 litres / 300 imperial gallons to transfer the
grey water from the main dwelling septic tank to the dosing pump chamber.
Dosing Pump Chamber - 5005 litre / 1100 imperial gallons min.
(Dan's Pre - Cast, Concrete), with access to the surface, (risers). Water tested.
Anti Floatation to be installed **NOTE: IF NEEDED.**

Dosing Pump: Barnes -- Series Step - SS, 1/2 (.5 hp High Head).

Dose: Dose on demand by Timer @ 81 litres/ 17.88 imp. gallons 32 times a day to
a 4 zone indexing valve.

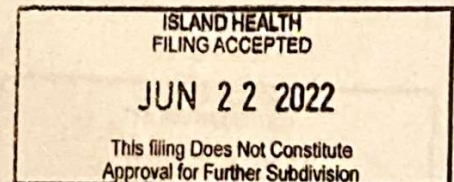
ON TIME OF - 41 SECONDS and an **OFF TIME OF - 5 MINUTES TO RESET VALVE**
32 times = 2,600 litres / 572 imp gals. with a Peak Flow of 1300 litres / 286 imp. gals.
dispersing in the septic field per 24 hrs. / day.

Indexing Valve: 6404 K-RAIN

Panel: SJE Rhombus EZ Series Simplex.

Floats: SJE Rhombus

Field: 97.5meters / 320 feet of tile at 0.9 meter / 3 foot wide tile at 3 meters / 10 foot



spacing or the equivalent with chambers, (infiltrators), **Orifice Shields** to be installed over every orifice using drain rock.

LLR: Minimum system length — 19 meters / 62 feet.

Force Main: schedule 40 -- 2 inch PVC pipe with a ball valve and check valve installed above pump in pump chamber. Anti siphon to be installed **IF NEEDED**.

Manifold: Schedule 40 - 3.8 cm / 1.5 inch PVC pipe with ball valves (8) to each lateral.

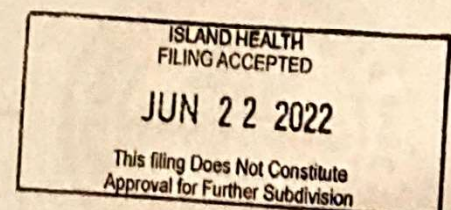
Laterals: 4 @ 24.38m / 80 feet split in the centre with the manifold.
3.2 cm / 1.25 inch schedule 40 with 3 m / 10 foot horizontal spacing between laterals. 3/16" inch holes drilled at 12 o' clock and spaced at 24 inches / 0.6 meters .
A 3 /16" drain hole drilled at 6 o' clock , at the laterals end.
Orifice shield to be placed under drain hole.

Clean outs: one at the end of each lateral (8 in total)

NOTE: field placement must be done during suitable soil conditions, (dry soils).

Vertical separation: 61 meter / 24 inches minimum of undisturbed natural soils above the restrictive layer, must be maintained at all times.

Pre – Installation Meeting: (Tailgate meeting) , Start up meeting is required with the installer prior to the instillation of this design. Other inspections, (example: before backfilling) may be required as well as a certified stamped letter of installation prior to final sign off. **Inspection fees may be charged.**



Observed Soil Conditions

Test Pit Logs

STEVEN FURNISS

Date: June 15 / 2022 Site: 2652 GIBBINS RD. DUNCAN BC Logged by: MARTIN BLOOM

TP# 1 Pit Location: 100' DEEP DRAINAGE 2002 - SEE ATTACHMENT 2 Slope: 3% LL & ES

Soil Horizons (depths measured in cm / m / in / ft)

Depth	Colour	Texture	Structure	Rupture resistance (or density)	Coarse gravel (%)	Roots depth & quantity	Mottles depth & quantity	Moisture seepage
from to								
0cm 25cm	Tan	FILL	Coarse	FRAGILE	< 15%	FEW FINE	NIL	DRY
25cm 50cm	BROWN	LOAMY SAND	GRANULAR	VERY HARD TO LOOSE	< 15%	FEW FINE	NIL	DRY
50cm 101cm	TAN	FINE SAND (SANDY)	Coarse	VERY HARD TO LOOSE	< 15%	FEW FINE	NIL	DRY
101cm 115cm	GRAY	FINE SAND	SINGLE GRAIN	LOOSE	< 15%	FEW FINE	NIL	DRY
	GRAY CLAY		Blocky					

Notes

WATER SEEPING @ 100 CM

TP#2

Depth	Colour	Texture	Structure	Rupture resistance (or density)	Coarse gravel (%)	Roots depth & quantity	Mottles depth & quantity	Moisture seepage
from to								
0cm 25cm	Tan	FILL	Coarse	FRAGILE	< 15%	FEW FINE	NIL	DRY
25cm 40cm	BROWN	LOAMY SAND	GRANULAR	VERY HARD TO LOOSE	< 15%	FEW FINE	NIL	DRY
40cm 55cm	GRAY	LOAMY SAND	Coarse	VERY HARD TO LOOSE	< 15%	FEW FINE	NIL	DRY
55cm 115cm	TAN	LOAMY SAND	Coarse	LOOSE	< 15%	FEW FINE	NIL	DRY
115cm 130cm	GRAY	FINE SAND	SINGLE GRAIN	LOOSE	< 15%	NIL	FEW FINE	DRY
	CLAY							WATER

Notes

FORM LAYER CLAY (Blocky) - many streams, not fine.

Based on USDA Field Book for Describing and Sampling Soils (2002).

* Date water table measured

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JUN 22 2022

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ATTACHMENT 8

ATTACHMENT 8

Client: POZIMCO	Job #
Location: 3835 GIBBS ROAD, DUNCAN BC	Date: JUNE 15 / 2022
Weather: Cloudy Day	AH location: AS HE DRAINAGE 2 of 2
AH Depth:	AH radius (a): SEE ATTACH 2
Permeameter ID#	AH diameter: 7.5
Test Results:	Height of air hole (H):
	Perm ID = cm Tested by:

Test Results:

[illegible]

$$K(f_s) = \frac{80}{\text{stable fall}} \times \frac{54.5}{\text{CSS soil factor}} = 4360 \text{ mm/day}$$

4" Permeameter

AH Diameter	7	7.5	8	8.5	9	9.5	10	10.5
Soil Factor CS	72.0	69.8	67.3	65.1	62.2	58.9	58.7	55.5
SS	55.3	54.5	52.5	50.8	47.2	46.2	45.4	44.0
US	32.4	31.4	30.5	29.5	28.0	27.4	26.3	25.9

AH Diameter	11	11.5	12	12.5	13	13.5	14
Soil Factor CS	53.8	52.4	50.4	49.8	48.0	47.9	47.0
SS	41.5	40.7	39.7	39.3	38.5	37.5	36.8
US	25.1	24.6	24.2	23.7	23.5	23.2	22.8

SOIL FACTORS

CS = COARSE SAND

SS = STRUCTURED SOILS

US = UNSTRUCTURED SOILS (CLAY)