On-Site Sewerage System Feasibility Report for Subdivision

Date: May 9, 2016

Legal Description: Sec 35, Twp 25, Rg 21, W5M, Ld 26, LS 2.

Property Owner: Barry Palumbo.

Please note that all percolation testing, soils analysis and calculations are based on information Ministry of Health "Sewerage System Standard Practice Manual").

The daily effluent discharge calculations for each proposed lot are based on a 4-bedroom house using a Type 1 System with 0.6m wide trenches spaced 1.8m on-centre and slopes under 5% as per the provided by the Interior Health – Health Protection "Subdivision Guidelines".

Proposed Lot # _1 Field #_2_ Slope: _5_%

Calculated Hydraulic Loading Rate: __25__ litres / m² / day
Total trench length necessary would be: _113_m.
The Secondary field (Field 2) would consist of #_5_ lines at __22.7__ m long.
(If the Reserve field has different variables they must also be listed).

The minimum total area that would be required for field 1 for a 4-bedroom house using a Type 1 System on this Proposed Lot would be: _163_m²

The additional 10% area for construction increases the required total area to: _180_ m² (If additional area is required due to slopes over 5% they must also be identified). The 5% slope would bring the total area needed to: _189_m²

An example of a possible size for the 'field 2' area for this Proposed Lot would be: _23.5_m long by _8.8_ m wide.

Attached is the soils analysis for the Proposed Lot # 1. Field # 2. As the Authorized Person for this site evaluation, I confirm, to the best of my ability, that the soils on this proposed lot are appropriate for a Type 1 discharge system serving a 4 bedroom house as per the requirements of the Ministry of Health "Sewerage System Standard Practice Manual" and the Interior Health Subdivision Guidelines.

Signed and Stamped,

ASTTBC

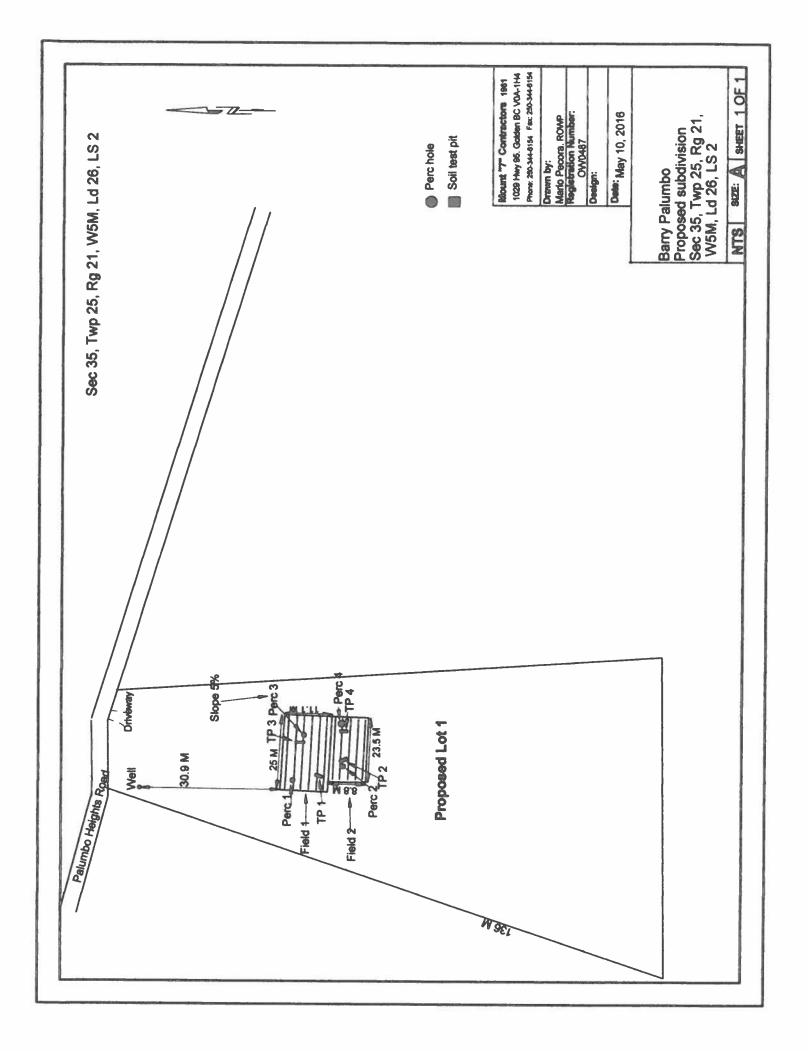
ASTTBC

MARIOF. PECORA

PL IN RE

OW0487

The information provided is NOT a septic system design. It is provided for the use of the Public Health Officer for subdivision review purposes ONLY. If you have any questions or require additional information, please contact the undersigned.



Date: May 3, 2016

NAME: Barry Palumbo

Civic Address: Palumbo Heights Logged by: Mario Pecora, ROWP TP# Pit Location: Proposed Lot 1. Field 1. Slope: 5 % Soil Horizons (depths measured in cm/m/in/ft) Depth Rupture Coarse Roots Mottles Moisture Colour Texture Structure resistance gravel depth & depth & from to seepage (or density) (%) quantity quantity Structureless 0 35-60% Very Relative portions of 60-90% Extremely Weak Notes various soil e.g. Silt. >90% if <10% fine Moderate 2 Below clay, sand. earth use size class Strong 3 ROCK>75mm 0 2 Black Organic Many fine -2 6 Brown 1 Sandy loam L Few fine Loamy coarse Ext 6 18 Brown 1 L Very few fine sand Ext Coarse sandy 18 23 Grev 1 L Very few fine loam 23 25.5 Grey Sandy loam 1 L 23.5 26 Grev 1 Sandy loam S 26 26.5 Black Organic 26.5 28 Tan 1 Sandy loam L 28 Tan 31 Coarse sand 0 L _ 31 35 Tan Sandy loam 1 L Tan-Sandy clay 36.5 35 2 S yellow loam 36.5 44 Grey Fine sand 0 L Sandy clay 44 45 Orange 0 L loam 45 48.5 Grey Sandy loam 0 L NOTES: Restrictive horizon present at: ___>48.5"____. Mottling present at: _> 48.5"____. SHWT: _> 48.5 "_____.

Rupture Resistance:

DRY: Loose (L) Soft (S) Slightly Hard (SH) Mod Hard (MH)

Hard (HA)

Moist: Loose (L) Very Friable (VFR) Friable (FR)

Firm (FI) Very Firm (VFI) Cementation: NA

Non-Cemented Extremely Weak (EW) Very Weak Cemented (VW) Weakly Cemented (W)

Block Specimen:

Rooting Depth: _21"____.

NA Very Slight Force

Slight Force **Mod Force** Strong Force

NAME: Barry Palumbo Date: May 3, 2016

Civic Address: Palumbo Heights Logged by: Mario Pecora, ROWP TP# Pit Location: Proposed Lot 1. Field 2. Slope: 5 % Soil Horizons (depths measured in cm/m/in/ft) Depth Rupture Coarse Roots Mottles Moisture Colour Texture Structure resistance gravel depth & depth & from to seepage (or density) (%) quantity quantity Structureless 0 35-60% Very Relative portions of 60-90% Extremely Weak Notes various soil e.g. Silt, >90% if <10% fine Below Moderate 2 clay, sand. earth use size class Strong ROCK>75mm 0 4 Black **Organic** Many fine _ Sandy clay 4 8 Brown 0 L Verv Very few fine loam Coarse sandy 8 14.5 Brown 0 L Ext Very few fine loam Fine sandy 14.5 22 Grev 1 S Very few fine loam Sandy clay 22 27.5 Grev 1 S Very few fine loam 27.5 29 Black **Organic** Very few fine Sandy clay 29 35.5 Grev 1 S . loam Fine sandy 35.5 43 Grev 0 L loam 43 43.5 Grey Silty loam 0 S Fine sandy 43.5 45.5 Grev 0 L loam Sandy clay 45.5 47 Grev 0 S loam NOTES: Restrictive horizon present at: ___>47"____. Mottling present at: _> 47"____. SHWT: _> 47"____. Rooting Depth: _28"____.

Rupture Resistance:

DRY: Loose (L) Soft (S) Slightly Hard (SH) Mod Hard (MH) Hard (HA) Moist: Loose (L) Very Friable (VFR) Friable (FR) Firm (FI)

Very Firm (VFI)

Cementation:

Non-Cemented
Extremely Weak (EW)
Very Weak Cemented (VW)
Weakly Cemented (W)

Block Specimen:

NA Very Slight Force Slight Force Mod Force

Strong Force

NAME: Barry Palumbo Date: May 3, 2016

Civic A	ddress:	Palum	nbo Heights				Logged by: Mar	rio Pecora, F	ROWP
TP#	3 Pi	t Location	on: Proposed L					Slope	: 5 %
Soil Horizons (depths measured in cm / m / in / ft)							-		
from	pth to	Colour	Texture	Structure	Rupture resistance (or density)		Roots depth & quantity	Mottles depth & quantity	Moisture
			Relative portions of various soil e.g. Silt, clay, sand.	Structureless 0 Weak 1 Moderate 2 Strong 3	Notes Below	35-60% Very 60-90% Extremely >90% if <10% fine earth use size class ROCK>75mm			
0	6	Black	Organic	-	-		Many fine	•	-
6	15.5	Brown	Sandy clay loam	1	SH	-	Some fine	-	-
15.5	26	Grey	Silty clay loam	1	S	-	Very few fine	-	-
26	26.5	Black	Organic	-	-	-	Very few fine	-	-
26.5	30	Brown	Fine sandy loam	1	L	-	-	-	-
30	47.5	Grey	Silty loam	3	МН	-	-	-	-
OTES:	re horizo	on presen	nt at:>47.5"	. M	ottlina pres	ent at: > 47 5°			
HWT: > 47.5" Rooting Depth: 26.5"									

Rupture Resistance: DRY:

Loose (L) Soft (S) Slightly Hard (SH) Mod Hard (MH) Hard (HA) Molet: Loose (L) Very Friable (VFR) Friable (FR) Firm (FI) Very Firm (VFI)

Comentation:
NA
Non-Cemented
Extremely Weak (EW)
Very Weak Cemented (VW)
Weakly Cemented (W)

Block Specimen: NA Very Slight Force Slight Force Mod Force Strong Force

NAME: Barry Palumbo Date: May 3, 2016

Civic Address: Palumbo Heights Logged by: Mario Pecora, ROWI						ROWP			
TP# 4	Pit	Location	: Proposed Lot	1. Field 2.				Slope	: 5%
Soil Horizons (depths measured in cm / m / in / ft)									
from	pth to	Colour	Texture	Structure	Rupture resistance (or density)	Coarse gravel (%)	Roots depth & quantity	Mottles depth & quantity	Moisture
			Relative portions of various soil e.g. Silt, clay, sand.	Structureless 0 Week 1 Moderate 2 Strong 3	Notes Below	35-60% Very 60-90% Extremely >90% if <10% fine earth use size class ROCK>75mm			
0	9	Brown	Sandy loam	0	L	-	Med-fine	-	-
9	13	Tan	Sandy loam	1	L	-	Few fine	-	-
13	24	Grey	Coarse sandy loam	0	L	Very	Very few fine	-	-
24	31	Grey	Silty clay loam	2	SH	-	Very few fine	-	-
31	38	Grey	Coarse sand	0	L	Ext	-	-	-
38	43	Grey	Coarse sand	1	L	-	-	•	-
43	43.5	Black	Organic	0	L	-	Few med	-	-
43.5	50	Grey	Loamy sand	1	S	-	-	-	-
					5,500				
NOTES:									
	Restrictive horizon present at:>50" Mottling present at: _> 50"								
HWT: > 50" Rooting Depth: 43" .									

Rupture Resistance:

DRY: Loose (L) Soft (S) Slightly Hard (SH) Mod Hard (MH)

Hard (HA)

Moist: Loose (L) Very Friable (VFR) Friable (FR) Firm (FI) Very Firm (VFI) Cementation: NA

Non-Cemented
Extremely Weak (EW)
Very Weak Cemented (VW)
Weakly Cemented (W)

Block Specimen:

Very Slight Force Slight Force Mod Force Strong Force

Percolation Tests

NAME: Barry Palumbo	Date: _May 4, 2016_
Civic Address: Palumbo Heights Road	
Legal Address:	
Location: Proposed Lot 1. Field 1 and 2	

Perc. Hole # 1	
Location: Field	1
5	min. / inch
7	min. / inch
8	min. / inch
9	min. / inch
Depth: _27_ inc	ches, cm

Perc. Hole	# 3		
Location: Field 1			
5	min. / inch		
7	min. / inch		
9	min. / inch		
11	min. / inch		
Depth: 20	6_ inches, cm		

Perc. Hole # 2			
Location: Field 2			
3	min. / inch		
5	min. / inch		
5	min. / inch		
	min. / inch		
Depth: _27_ ir	nches, cm		

Perc. Hole # 4				
Location: Field 2				
2	min. / inch			
4	min. / inch			
4	min. / inch			
	min. / inch			
Depth: _24_ in	ches, cm			

Average Perc. Rate: _7.25_ min/inch or 2.5 cm