Cottage Country Septic Systems

INSIGHTS INTO WHAT IS OUT OF SIGHT AND OUT OF MIND

Rick Esselment | ESSE Canada

Saturday, March 3, 2018

FOCA AGM

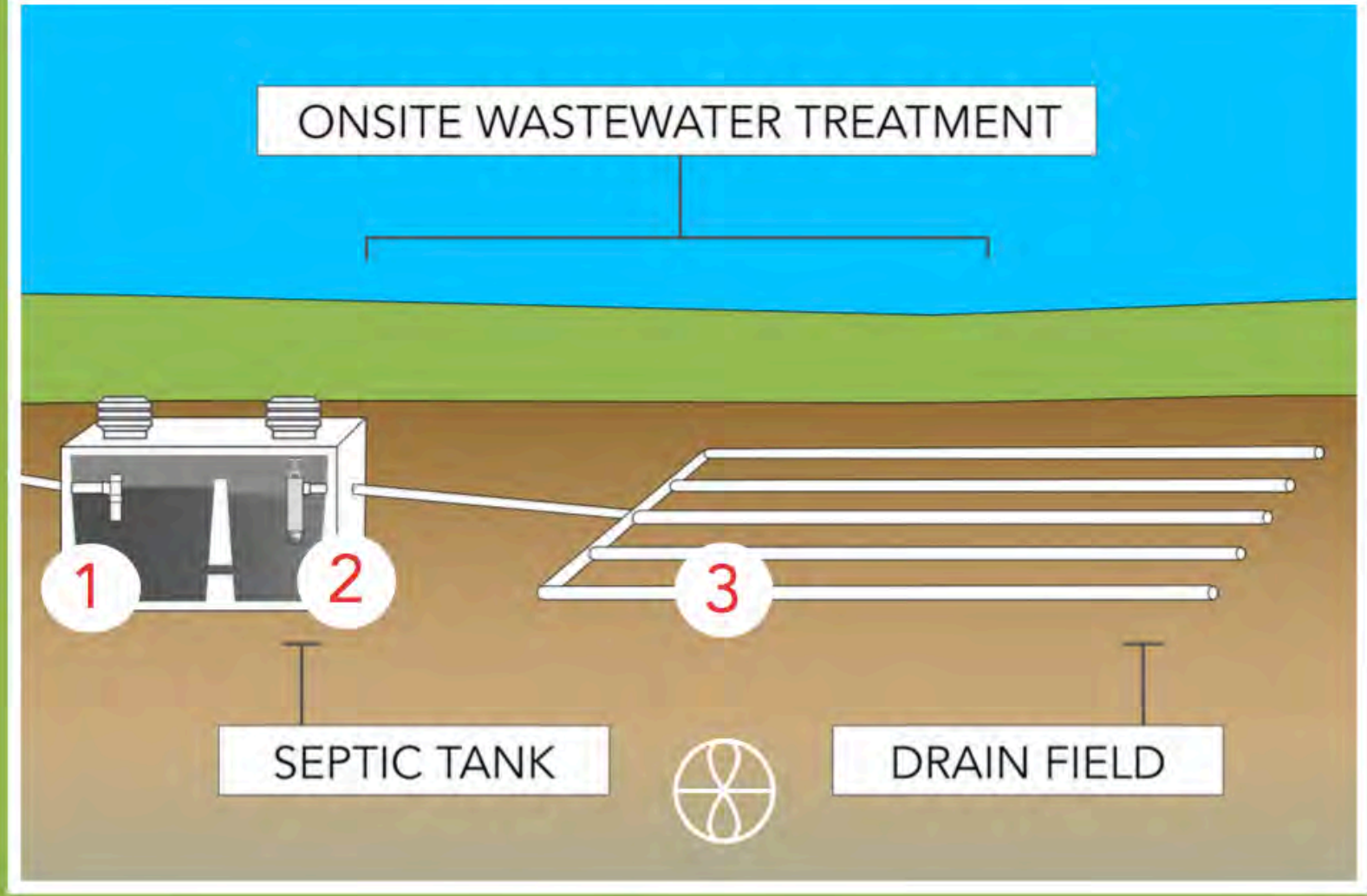
Rick Esselment

Professional Background

OOWA

WHAT WE WILL COVER

1. Background
2. A Brief Overview
3. What Can Go Wrong?
4. Current Policy Framework
5. ECO RFR
6. What Do We Know?
7. What Can We Do?
8. Q&A


ONSITE WASTEWATER TREATMENT
1
2
3
SEPTIC TANK
DRAIN FIELD

WHAT COULD POSSIBLY GO WRONG?


10/01/2014

CURRENT POLICY FRAMEWORK

PROVINCIAL POLICY & REGULATION

PROVINCIAL & LOCAL
APPROVALS AND ENFORCEMENT

ECO REQUEST FOR REVIEW: THE PLAYERS

Ontario Onsite Wastewater Association

Educators, regulators, engineers, contractors, manufacturers, suppliers, service providers, and other parties dedicated to providing the best onsite wastewater industry services

Federation of Ontario Cottagers Association

Represents the people who live at the waterfront in Ontario, whether seasonally or year-round. Members are lake and road associations of all sizes.

Environmental Commissioner

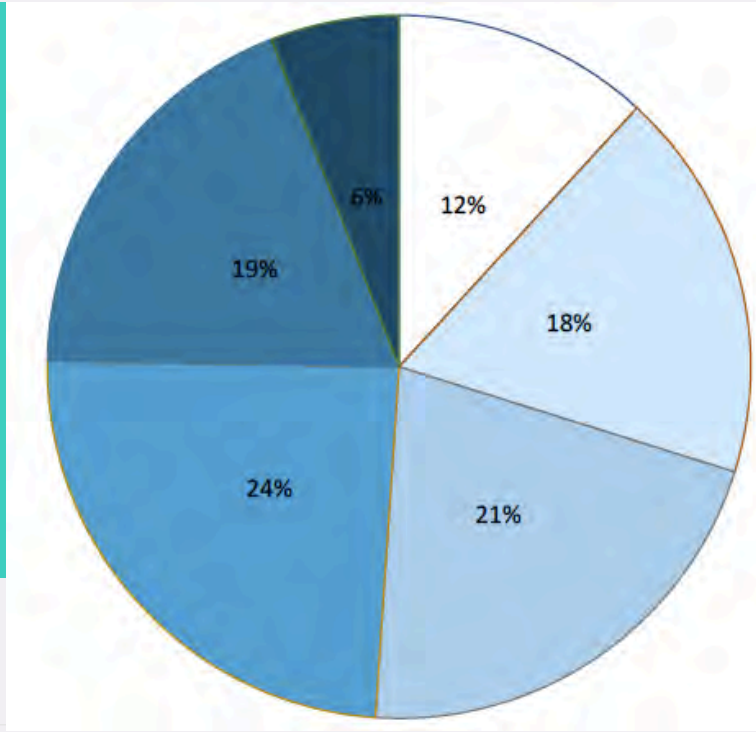
The Environmental Commissioner of Ontario is the province's environmental watchdog. Appointed by an all-party committee, the ECO is an independent officer of the Ontario Legislature

DATA SET NO.1

This data set represents inspections conducted in a one-time fee-for-service arrangement with over 370 clients between 2015 through to 2017. ESSE Canada has no vested interest in the outcomes of this analysis, other than to provide relevant and recent septic system condition information.

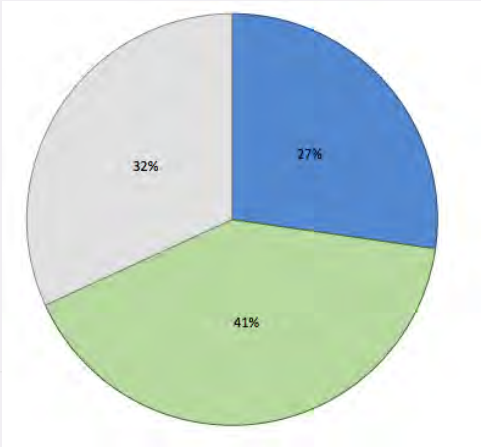
SYSTEM AGE PROFILES

1-10 Years	12%
11-20 Years	18%
21-30 Years	21%
31-40 Years	24%
41-50 Years	19%
51+ Years	16%



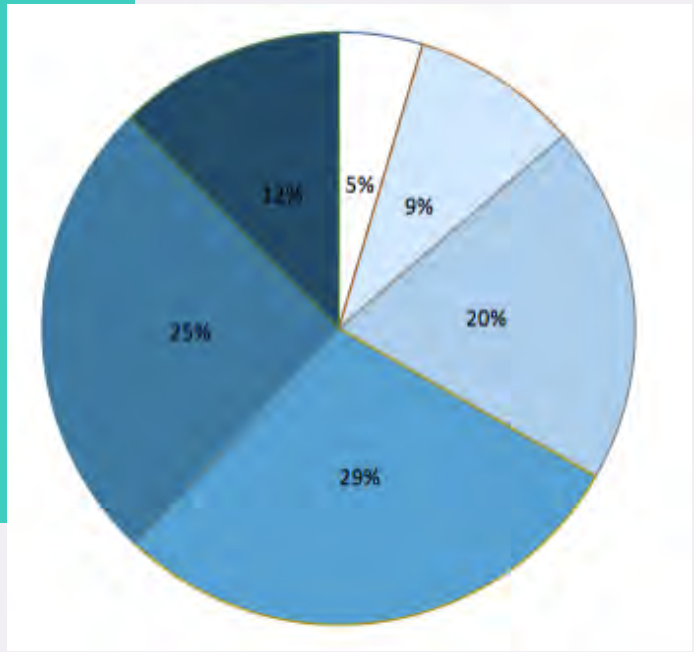
SYSTEM CONDITION PROFILES

None (32%)	**No Deficiencies of Note:** No impediments to function or performance at the time of assessment
Minor (27%)	**Minor Deficiencies:** Functional but required repairs or upgrades in order to ensure performance
Major (41%)	**Major Deficiencies:** Deficient in significant or extreme ways, impeding function and performance



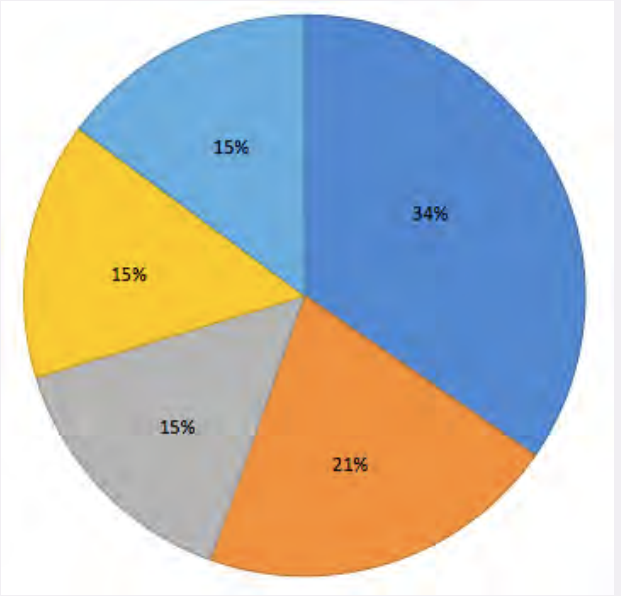
SYSTEM AGE PROFILES FOR SYSTEMS WITH MAJOR DEFICIENCIES

1-10 Years	5%
11-20 Years	9%
21-30 Years	20%
31-40 Years	29%
41-50 Years	25%
51+ Years	12%



MAJOR DEFICIENCIES CAUSAL BREAKDOWN

Category 1	Field Failure (34%)
Category 2	Deficient Outlet Baffle (21%)
Category 3	Saturated System Fileld (15%)
Category 4	Sludge in System Field (15%)
Category 5	Heavy Tank Corrosion and/or Structural Failure (15%)

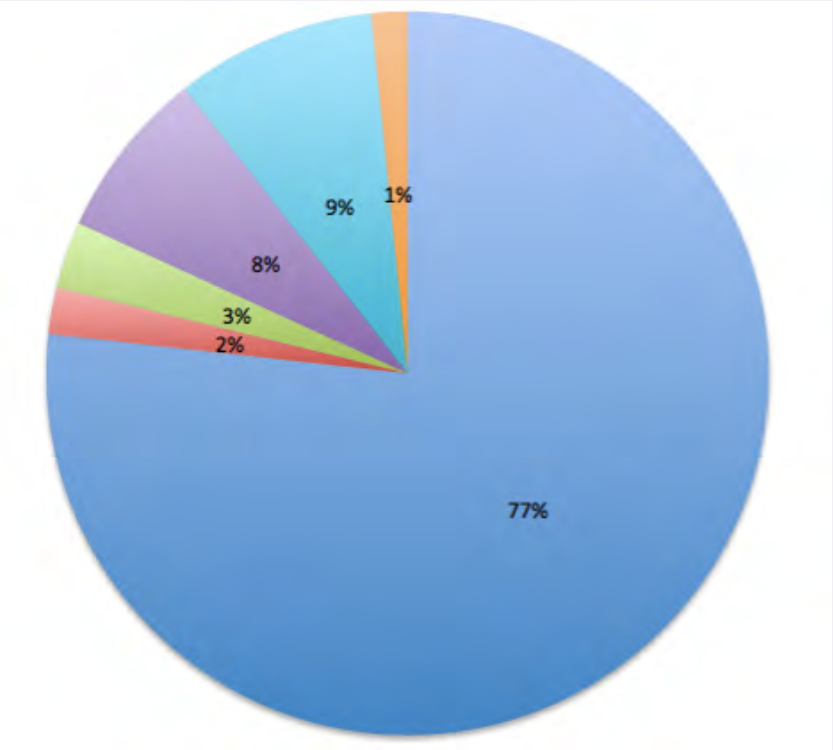


DATA SET NO.2

The following analysis and findings are based on a data set provided by WSP. The data set represents re-inspection programs at various townships at conducted at approximately 7667 individual properties, between 2013 through to 2017. WSP has administered Sewage System Maintenance Inspection Programs on behalf of the Townships requesting the program, either through the requirements of the mandatory inspection programs (every 5 years) or through a discretionary program.

MUNICIPAL REINSPECTION FINDINGS SYSTEM AGE PROFILES

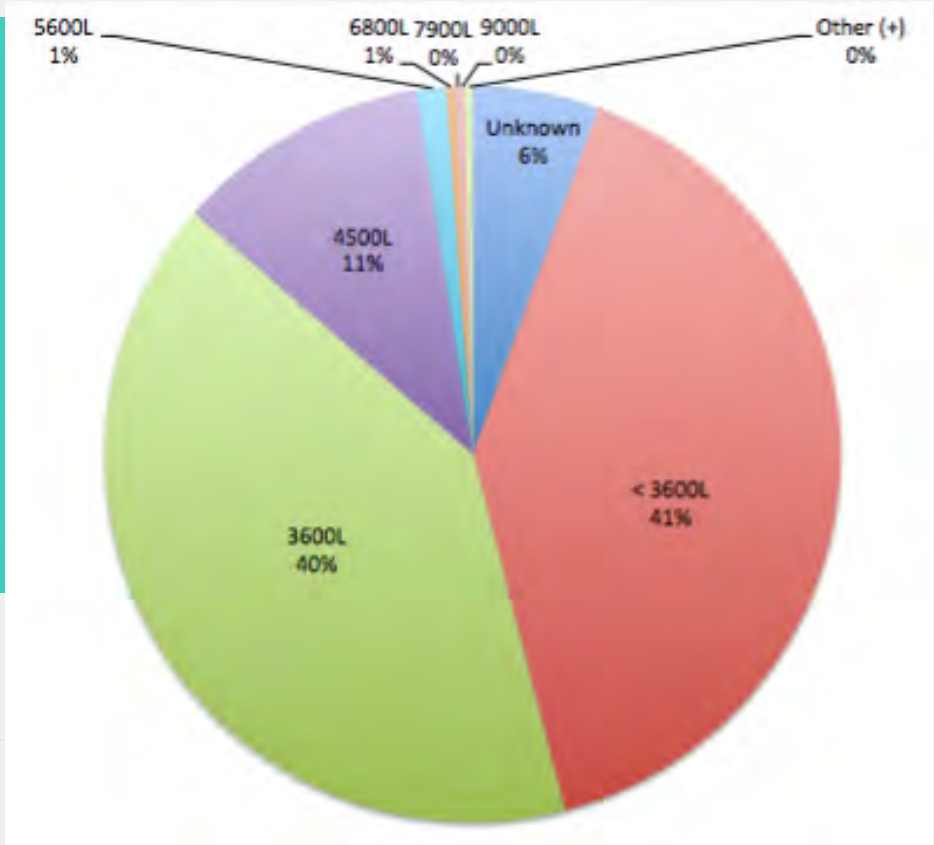
Unknown Age	77%
1970-1979	2%
1980-1989	3%
1990-1999	8%
2000-2009	9%
2010-2017	1%



MUNICIPAL REINSPECTION TANK VOLUME PROFILES

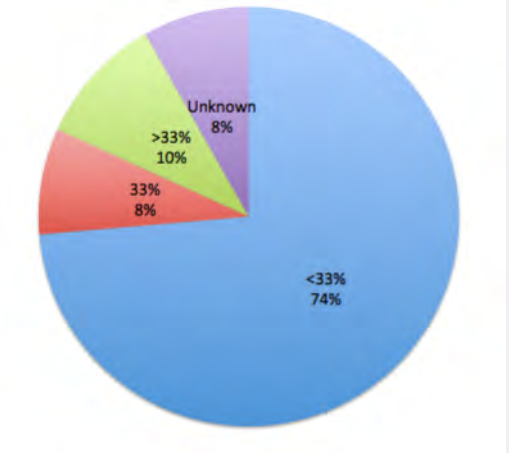
< 3600L	41%
3600L	40%
4500L	11%
Unknown	6%

5600L	0.5%
6800L	1%
7900L	0.5%
Other +	0.5%



MUNICIPAL REINSPECTION TANK SOLIDS ACCUMULATION PROFILES

Unknown	*Unknown (8%)*
At 33%	*Pump-out due (8%)*
Greater Than 33%	*Pump-out over due (10%)*
Less Than 33%	*No pump out required (74%)*




WHAT CAN WE DO?


DANGER
ATTENTION
ADVERTENCIA


DO NOT
EMPTY


RIDGID
SeeSnake
RIDGID
SeeSnake
MINI


ESSE
ESSE

PULLING IT ALL TOGETHER…

QUESTIONS?


THANK YOU!