

# Terraprobe

*Consulting Geotechnical & Environmental Engineering  
Construction Materials Inspection & Testing*

July 29<sup>th</sup>, 2017

Our File No. 5-16-0001-24  
**Sudbury Office**

Francois Savoie  
1193 Main Street  
Val Caron, Ontario  
PP3N 1E5

Attention: Francois Savoie

---

**RE: Estimation of Soil Percolation Rate  
1193 Main Street  
Val Caron, Ontario**

---

As requested, Terraprobe Inc. (Terraprobe) has performed a grain size distribution analysis on the soil sample delivered to our laboratory on July 25<sup>th</sup>, 2017. Terraprobe provides the attached estimated percolation rate ("T"-time) for the soil sample that was received from the subject property.

A grain size distribution curve was plotted for the sample tested and is presented on the attached T-time sieve analysis test report (Lab No. 6602). The results indicate the soil predominately consists of a Gravelly Silty SAND. Based on the grain size distribution, the material is classified as an SP - SW (poorly graded sands & gravelly sand with little or no fines to well-graded sands, gravelly sands) under the Unified Soil Classification System. The Supplementary Standard to the Ontario Building Code 2012 document *Percolation Time and Soil Descriptions* (SB-5) assigns percolation rates from 2 to 12 min/cm for soils within this classification. Considering the grading of the soil and a 32% silt & clay fraction, a percolation rate of 6 to 7 min/cm is considered appropriate for the sample submitted.

It should be noted that Terraprobe did not conduct a field investigation in conjunction with the sample collection, or witness the collection of the sample tested. Terraprobe assumes no responsibility for the application of the above-noted percolation rate ("T"-Time) for use in design of an on-site sewage disposal system. The design of an on-site sewage system must be conducted by a qualified professional with due regard for a number of site-specific conditions in addition to the percolation rate of the soil.

Francois Savoie  
Estimation of Soil Percolation, 1193 Main St., Val Caron, Ontario

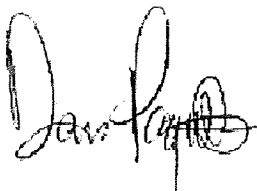
July 29<sup>th</sup>, 2017  
File No. 5-17-0001-24

Terraprobe does not present the estimated percolation rate given in this report as a warranty of performance for the soil tested. The client or any third party using this information as a basis for tile field design assumes all risk associated with their evaluation of this report and all other criteria used in the design of any private sewage disposal system. This report is based entirely on the grain size distribution curve of the soil sample submitted for analysis. Additional analyses may be required following any future processing of the subject material or following supply of the material to individual sites for use in any tile bed construction.

We trust this information is sufficient for your present purposes. Should you have any questions concerning this or any related matter, please do not hesitate to contact the undersigned at our Sudbury office.

Respectfully submitted,

**Terraprobe Inc.**



Denis Paquette, P. Eng.  
Principal, Sudbury Branch Manager





**Terraprobe**

## T-TIME SIEVE ANALYSIS TEST REPORT

PROJECT: **Estimation of Soil Percolation**  
LOCATION: **Val Caron, Ontario**  
CLIENT: **François Savoie**  
RE: **1193 Main Street**

FILE NO.: **5-17-0001-24**  
SAMPLE DATE: **July 25, 2017**  
SAMPLED BY: **Client**  
TEST DATE: **July 26, 2017**  
TESTED BY: **T.E.**  
LAB NO.: **6602**

SAMPLE DESCRIPTION: **Gravelly Silty SAND**

*\* To be read in conjunction with cover letter only \**

**Estimated rate of Percolation = 6 -7 min/cm**

### GRAIN SIZE DISTRIBUTION

