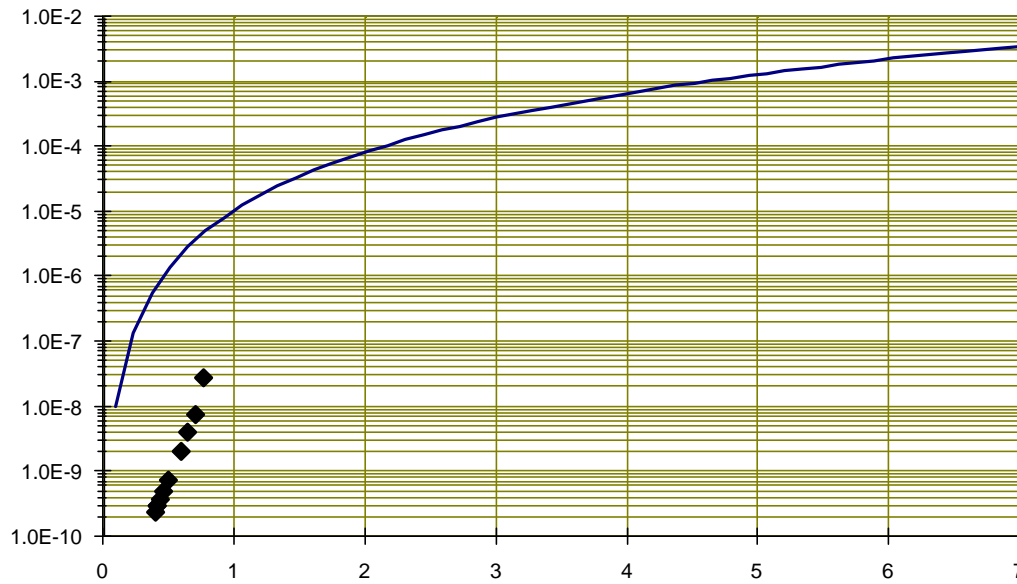


# Void Ratio vs. Permeability Taylor Relationship



— Taylor PTF  
 ◆ Laboratory data

Void ratio

Equation

$$k(e) = \frac{C e^3}{1 + e}$$

USDA Texture:	Silt Loam
USCS Texture:	Sandy fat clay
Geologic Description:	
Soil Name:	Coal Lake Loam
Soil Description:	Dark gray sandy clayey Loam

kVoid Specimen ID:	SM1332	
ksat:		m/s
Void Ratio:	0.650	
Taylor Coefficient:	1.668943E-05	
Taylor Predicted:	Yes	
Taylor Error:	-88526.78	
# kVoid Points:	10	

USCS Percent Clay:	23.79%
USCS Percent Silt:	43.89%
USCS Percent Sand:	32.02%
USCS Percent Coarse:	0.29%
Plastic Limit:	22.00%
Liquid Limit:	57.00%

kVoid Test Method:	Falling head test
kVoid Lab Notes:	



**Company:** B&L Consulting  
**Address:** 2109 McKinnon Ave S.  
 Vancouver SK  
**Country:** Canada  
**Telephone:** (306) 477-3324 **Fax:** (306) 955-4575

## VOID RATIO vs. PERMEABILITY

<b>Project:</b> PRJ2079	<b>Test Date:</b>
<b>Location:</b> Northern Saskatchewan, Canada	
<b>Borehole:</b> BR1340	<b>Depth:</b> 2.20 m
<b>Site:</b>	<b>Technician:</b> Jacob Anderson
<b>Soil Counter:</b> 948597316	<b>Sample ID:</b> SM1332