

Supporting information 2 – Statistics of travel time distribution and field observations

Statistics of multiple regression between mean travel times (MTT), on one hand, and slope, groundwater travel distance (MTD), and the proportion of low conductive sediments (LCS). The statistics are based on MTT and equations 4 and 5 (Table S2).

5 **Table S2:** Regression statistics of Eq 4 and Eq 5

Regression statistics of Eq 4					
	Multiple R	R Square	Adjusted R Square	Standard Error	Observations
ANOVA	0.95	0.90	0.88	0.31	14
	df	SS	MS	F	Significance F
Regression	2	9.5	4.8	48.2	3.6E-06
Residual	11	1.1	0.1		
Total	13	10.6			
	Coefficients	Standard Error	t Stat	P-value	
Intercept	-0.33	0.50	-0.66	0.52	
LCS (%)	0.31	0.11	2.99	0.01	
Slope (°)	0.08	0.01	6.30	0.00	
Regression statistics of Eq 5					
	Multiple R	R Square	Adjusted R Square	Standard Error	Observations
ANOVA	0.95	0.90	0.88	0.32	14
	df	SS	MS	F	Significance F
Regression	2	9.53	4.76	47.71	3.8E-06
Residual	11	1.10	0.10		
Total	13	10.62			
	Coefficients	Standard Error	t Stat	P-value	
Intercept	0.19	0.34	0.57	0.58	
LCS (%)	0.01	0.00	2.96	0.01	
MTD (m)	0.08	0.01	5.87	0.00	