												Марю	lap of node and cell number									
		num cells	z	K zone cell	K cell	Н	q	zone 1	zone 2	zone 3												
zone 1	0.0004	5.5											node	cell								
zone 2	0.01	6.5	60	1	4E-04	100		1	0			1	- 2		1							
zone 3	0.0001	0	55	1	4E-04	82.6395	0.00139	1	0	0		2	2		2							
			50	1	4E-04		0.00139	1	0			3	<u> </u>		3							
Keq	0.000833		45	1	4E-04	47.9164	0.00139	1	0	0		4	- 1		4							
q	0.001389		40	1	4E-04	30.5542	0.00139	1	0	0		5	2		5							
		1 1	35	1	4E-04	13.1921	0.00139	1	0	0		6	-		6							
			30	2	0.01	4.16393	0.00139	0	1	0		7	-		7							
			25	2	0.01	3.46965	0.00139	0	1	0		8	-		8							
			20	2	0.01	2.77553	0.00139	0	1	0		9	-		9							
			15	2	0.01	2.08155	0.00139	0	1	0		10	-		10							
			10	2	0.01	1.38767	0.00139	0	1	0		11	-		11							
			5	2	0.01	0.69384		0	1	0		12	-		12		- 1		1		1	
		1	0	2	0.01	0	0.00139	0	1	0		13	-		13							
Elevation above Base		0 40	+ + + + + + + + + + + + + + + + + + + +	80	80 100		Elevation above Base						Create a 1D, vertical steady state model with constant head top and bottom boundaries. Show, based on the flux with depth, that the model is steady state. Repeat this for a homogeneous and for a heterogeneous column. Show that the steady state flux agrees with the direct calculation based on the harmonic mean average K. Show the steady state head profile for a column with approximately equal-thickness layers with different K value. Use this profile to explain why the equivalent hydraulic conductivity, Keq, is closer to the lower of the K values.								·S.	
Hydraulic Head							0 0.002 0.004 0.006 0.008 0.01 Downward flux															