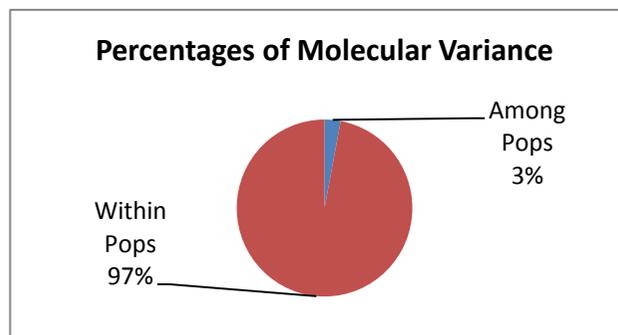


Results of Analysis of Molecular Variance

Data Sheet File S2
 Data Title Eco separation

No. Samples 1592
 No. Pops 4
 No. Permutations 999
 NO 313.448
 SSTOT 6187.791



Pop	Air	Clinical	Soil	Water
n	529	858	117	88
SSWP	2060.386	3325.593	381.051	300.159

Summary AMOVA Table

Source	df	SS	MS	Est. Var.	%
Among Pops	3	120.602	40.201	0.116	3%
Within Pops	1588	6067.189	3.821	3.821	97%
Total	1591	6187.791		3.937	100%

Stat Value P(rand >= data) Probability, P(rand >= data), for PhiPT is based on standard permutation across the full data set.

PhiPT 0.029 0.001 $\Phi_{iPT} = AP / (WP + AP) = AP / TOT$

PhiPT max 0.158

Phi'PT 0.187

Nm (Haploid) 16.459 $Nm \text{ (Haploid)} = [(1 / \Phi_{iPT}) - 1] / 2$

Key: AP = Est. Var. Among Pops, WP = Est. Var. Within Pops

Pairwise Population PhiPT Values

	Air	Clinical	Soil	Water	
		0.001	0.001	0.001	Air
	0.005		0.001	0.001	Clinical
	0.089	0.082		0.001	Soil
	0.032	0.034	0.115		Water

PhiPT Values below diagonal. Probability, P(rand >= data) based on 999 permutations is shown above diagonal.