

Table S5. Random forest model showing the potential important factors influencing OTUs that occurred outside or inside predictions by dominance test. The importance of each predictor was determined by assessing the decrease in prediction accuracy (%IncMSE) when the data for the predictor was randomly permuted. $\sum\%IncMSE$ is the accumulated %IncMSE of each significant predictor.

		Environmental factors		Spatial factors		R ²	P
		Variable	$\sum\%IncMSE$	Variable	$\sum\%IncMSE$		
layer	Outside predictions	AP、pH、TP、TN	39.78	PCNM16、PCNM24	27.81	0.179	0.01
	Inside predictions	AP、pH、TP、TK	23.39	PCNM16、PCNM10、PCNM24、PCNM1、PCNM11	30.80	0.187	0.01
10-20cm	Outside predictions	pH、AP、AN、TP、TN、TK、Fe	58.05	PCNM2、PCNM16、PCNM25、PCNM11、PCNM24、PCNM9、PCNM1、PCNM10、PCNM7、PCNM13、PCNM8	83.89	0.365	0.01
	Inside predictions	TK、AP	8.64	PCNM2、PCNM16、PCNM5、PCNM20、PCNM18、PCNM25、PCNM14、PCNM23、PCNM24	69.90	0.232	0.01
layer	Outside predictions	pH、CEC、SOC、TN、TK	28.96	PCNM22、PCNM16、PCNM18、PCNM24	19.79	0.146	0.01
	Inside predictions	Fe、SOC、TN、pH、CN、CEC	17.66	PCNM22、PCNM17、PCNM18、PCNM25、PCNM1、PCNM7	19.87	0.125	0.01