

Table S3. Probability of Impairment and associated 95% confidence intervals for the total creek, each site, and each month that was sampled.

	8-variable Mean Probability (95% CI)	5-variable Mean Probability (95% CI)	4-variable Mean Probability (95% CI)
Sinking Creek	0.338 (0.319, 0.358)	0.353 (0.334, 0.373)	0.359 (0.340, 0.378)
SC1	0.427 (0.343, 0.512)	0.456 (0.379, 0.534)	0.455 (0.376, 0.535)
SC2	0.434 (0.364, 0.503)	0.453 (0.384, 0.522)	0.456 (0.384, 0.527)
SC3	0.410 (0.334, 0.485)	0.430 (0.355, 0.505)	0.434 (0.359, 0.508)
SC4	0.409 (0.332, 0.486)	0.418 (0.351, 0.508)	0.430 (0.349, 0.510)
SC5	0.403 (0.337, 0.470)	0.418 (0.353, 0.483)	0.413 (0.348, 0.477)
SC6	0.373 (0.314,0.433)	0.385 (0.326, 0.444)	0.386 (0.327,0.445)
SC7	0.359 (0.295,0.423)	0.372 (0.308, 0.435)	0.371 (0.307, 0.434)
SC8	0.336 (0.269,0.403)	0.351 (0.285, 0.418)	0.360 (0.295, 0.425)
SC9	0.317 (0.242,0.391)	0.331 (0.255, 0.406)	0.343 (0.271, 0.416)
SC10	0.289 (0.232,0.347)	0.305 (0.247, 0.364)	0.315 (0.258, 0.372)
SC11	0.292 (0.221, 0.363)	0.303 (0.233, 0.373)	0.316 (0.249, 0.382)
SC12	0.276 (0.202, 0.350)	0.288 (0.214, 0.362)	0.303 (0.233, 0.374)
SC13	0.189 (0.140, 0.237)	0.195 (0.146, 0.245)	0.211 (0.167, 0.255)
SC14	0.176 (0.132, 0.221)	0.184 (0.139, 0.230)	0.187 (0.148, 0.226)

February	0.225 (0.223, 0.228)	0.211 (0.209, 0.214)	0.191 (0.188, 0.194)
May	0.353 (0.351, 0.356)	0.352 (0.349, 0.355)	0.344 (0.342, 0.347)
August	0.535 (0.531, 0.538)	0.529 (0.526, 0.532)	0.511 (0.508, 0.514)
November	0.317 (0.312, 0.323)	0.315 (0.309, 0.321)	0.299 (0.294, 0.305)