This appendix is in support of the main manuscript: Wilson et al. (In Review). Life-history variation along environmental and harvest clines of a northern freshwater fish: plasticity and adaptation. *Journal of Animal Ecology*.

Figure S6.1 – Posterior mean length versus observed length for lake trout (a), standardized residuals (b), and standardized residuals versus posterior mean length (c). Dashed blue line shows trend fitted with smoothing spline, dashed red line shows the zero-bias line.



Figure S6.2 – Observed (points) and posterior predictive distribution of size-at-age for six example lake trout populations that varied in sample size (N), and environmental features: degree-days (DD), total dissolved solids (TDS), prey fish species diversity, lake trout exploitation class (EC), and travel mode/distance. White circles show size-at-age of lake trout that lacked maturity data, blue squares show size-at-age of immature lake trout, orange triangles show size-at-age of mature lake trout. The 75% and 95% credible intervals shown in light and dark grey, respectively.

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| Table S6.1 – Posterior mean standardized correlations (ρ) between life-history traits of lake trout in western Canada. Traits estimated using multivariate normal distribution and variance-covariance matrix. | | | | | |
|  |  |  |  |  |  |
|  | 1 | - | - | - | - |
|  | 0.58 | 1 | - | - | - |
|  | -0.31 | -0.17 | 1 | - | - |
|  | 0.31 | 0.16 | -0.83 | 1 | - |
|  | -0.41 | -0.35 | 0.85 | -0.69 | 1 |