**Ecosystem Type: RIVERS AND STREAMS**

**Category: Clean Air**

1. **Materials**

***Supplier*** – not applicable

***Driver*** – not applicable

***Demander*** – not applicable

1. **Nutrition**

***Supplier*** – not applicable

***Driver*** -not applicable

***Demander*** - not applicable

1. **Energy**

***Supplier*** – not applicable

***Driver*** – not applicable

***Demander*** - not applicable

1. **Mediation of Waste, Toxics, and Other Nuisances**

***Supplier*** – not applicable

***Driver*** – not applicable

***Demander*** – not applicable

1. **Mediation of Flows**

***Supplier*** – not applicable

***Driver*** – not applicable

***Demander*** – not applicable

1. **Maintenance of Physical, Chemical, and Biological Indicators**

***Supplier*** – Rivers and streams can support clean air by providing the maintenance of physical and chemical indicators such as absorbing nitrogen and sulfur deposition because of their ability to trap, alter and transport nutrients (Williamson et al., 2008). Aquatic species that live in these ecosystems can also release oxygen into the atmosphere as they alter nutrients.

***Driver*** – not applicable

***Demander*** – not applicable

1. **Spiritual, Symbolic, Religious, and Social Experiences**

***Supplier*** – not applicable

***Driver*** –not applicable

***Demander*** – not applicable

1. **Physical and Intellectual Interactions w/ Biota, Ecosystems, and Land/Seascapes**

***Supplier*** –not applicable

***Driver*** – not applicable

***Demander*** - not applicable

**Sources:**

Williamson, C.E. et al. (2008) Lakes and streams as sentinels of environmental change in terrestrial and atmospheric processes. *Frontiers in Ecology and the Environment, 6*(5), 247-254. DOI: 10.1890/070140. [abstract only]