Clark County Environmental Services

Long-Term Index Site Monitoring Summary

2002-2011

A trend analysis of Clark County's watershed health

February 2013

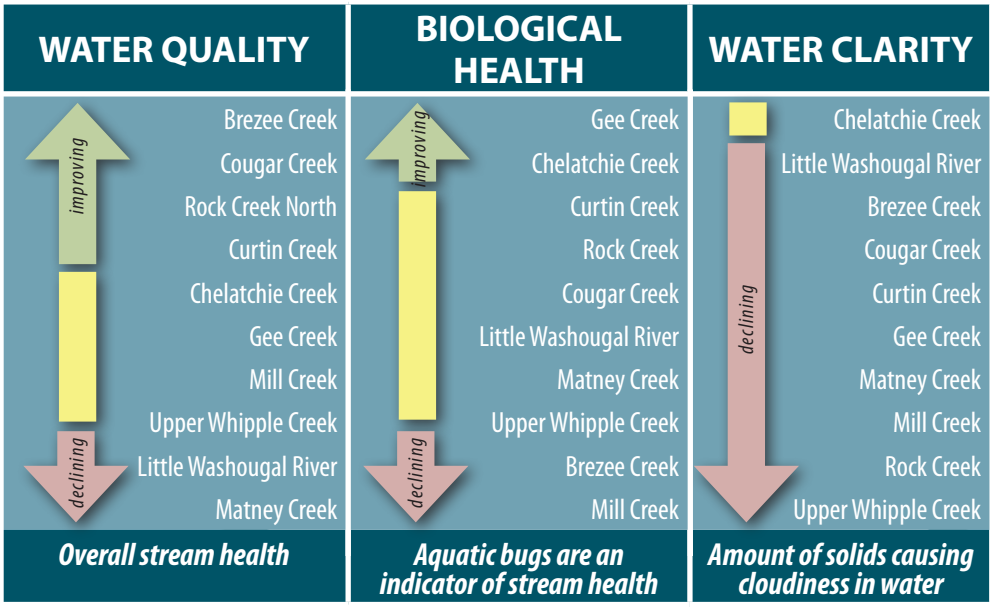
Photo credit: Gary Piazza

Clark County's Department of Environmental Services (DES) provides a service to our citizens to protect our surface and groundwater resources. To best understand the health of Clark County's watersheds, rivers and streams, DES staff collect a variety of data through our Clean Water Program's monitoring activities. The *Long-Term Index Site Summary Report* provides an overview of the data collected from 2002-2011 at ten locations throughout Clark County. The report highlights conditions and changes to be considered for future planning efforts, such as identifying projects and priorities for improvements to protect stream health throughout our community.

Clark County analyzed monthly storm water quality and annual benthic macroinvertebrate data collected from ten wadeable stream stations during 2002 through 2011. A water quality index is calculated based on a set of measured water quality variables. A benthic macroinvertebrate index (aquatic bugs) is calculated based on measurements of the kind and number of insects living on the stream bottom. Each station was analyzed for the presence of significant trends in water quality and benthic scores, as well as individual water quality variables.

TRENDS stream health 2002-2011

Trends based on 10 years of data. Current conditions shown on next page



For more information about the Clean Water Program:

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CURRENT STATUS *2011 Results*

As of 2011, the current water quality and biological health status for the ten stations is:

Water quality scores

- A = 1 station
- B = 2 stations
- C = 1 station
- D = 2 stations
- F = 4 stations

Biological health scores

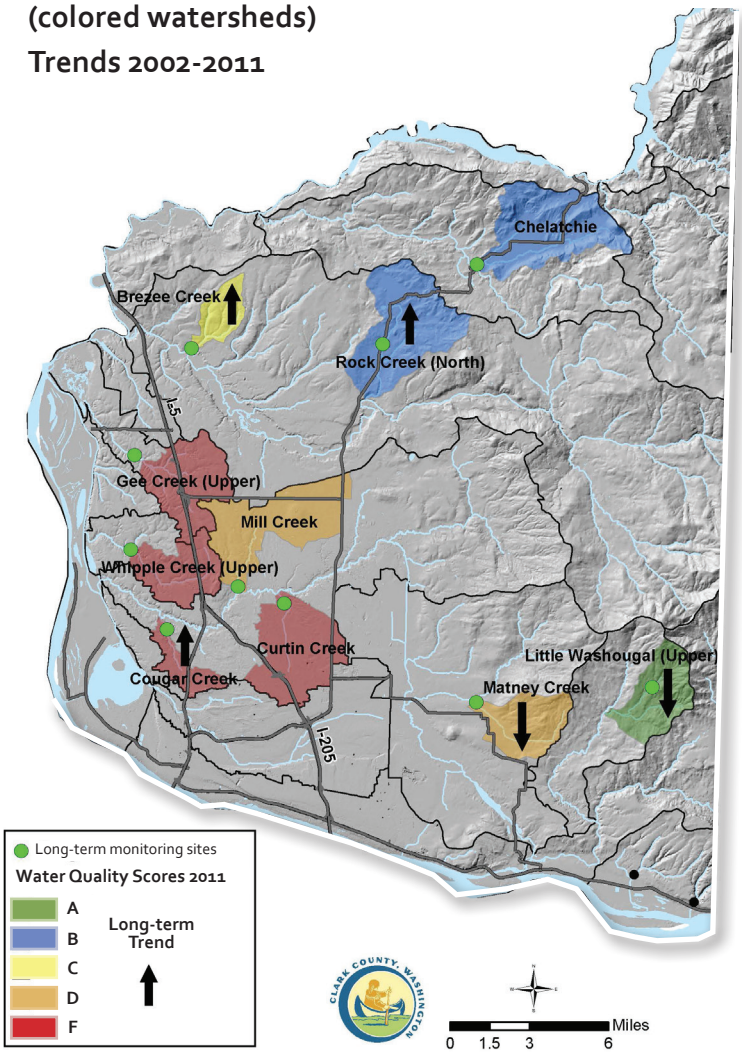
- A = 1 station
- C = 5 stations
- F = 4 stations

Variables measured:

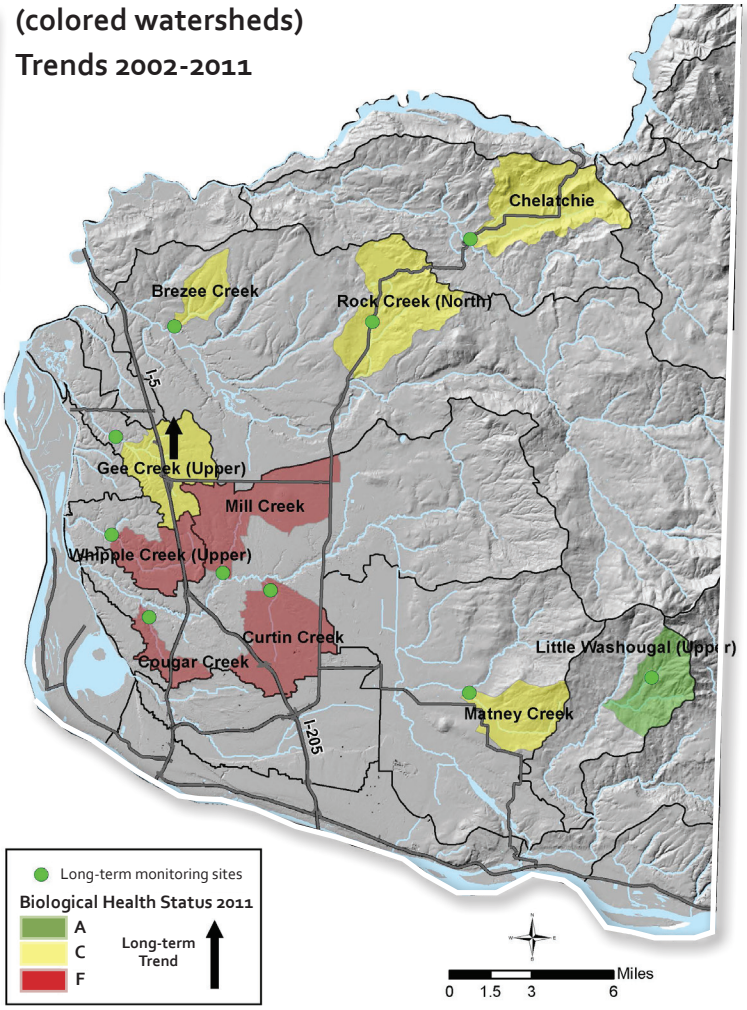
- Temperature
- Dissolved oxygen
- pH
- Total solids
- Inorganic nitrogen
- Total phosphorus
- Bacteria (fecal coliform)
- Benthic macroinvertebrates

Mayfly

Water Quality Status - 2011 (colored watersheds) Trends 2002-2011



Biological Health Status - 2011 (colored watersheds) Trends 2002-2011



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The "Long-Term Index Monitoring Report" is available on:
www.clark.wa.gov/environment

For other formats, contact the Clark County ADA Office: **Voice** (360) 397-2322; **Relay** 711 or (800) 833-6388; **Fax** (360) 397-6165; **E-mail** ADA@clark.wa.gov.