

**Ohio EPA 2008 Integrated Report Section M3
Large River Assessment Unit (LRAU) Results**

LRAU Description

Grand River Mainstem (downstream Mill Creek to mouth)

LRAU Size (mi²)

705.0

Integrated Report Assessment Category: 5

Priority Points: 2

Next Scheduled Monitoring: 2019

Aquatic Life Use (ALU) Assessment

Subcategories of ALU: EWH, WWH, SSH

Sampling Year(s): 2003, 2004

Impairment: No (1)

LRAU Total Length (miles): 41.28

No. Miles Full Attainment: 38.28

LRAU Monitored Miles: 38.28

No. Miles Partial Attainment: 0.00

No. Sites Sampled: 12

No. Miles Non-Attainment: 0.00

% LRAU Attainment (Monitored Miles)

Full	Partial	Non
100.0	0.0	0.0

High Magnitude Causes

High Magnitude Sources

Recreation Use Assessment

Subcategory of Use: Primary Contact

Impairment: No (1)

Geometric Mean: 136

No. of Ambient Sites: 9

No. of Ambient Sampling Records: 102

75th %ile: 240

No. of NPDES MOR Sites: 2

No. of NPDES MOR Records: 75

90th %ile: 1320

Other:

Public Drinking Water Supply Assessment

Location(s): No Public Drinking Water Supply Intakes

Impairment:

Nitrate Indicator:

Cause:

Pesticide Indicator:

Fish Tissue Assessment

Large River Sampled: Yes Impairment: Yes (5)

Miles Monitored: 41.28 Miles Impaired: 41.28

Pollutant(s): PCBs, Mercury

Comments

The 2004 Integrated Report assessment of fish tissue data documented body burdens of one or more pollutants at levels exceeding the threshold level upon which Ohio Water Quality Standards human health criteria are based which resulted in listing as impaired for fish consumption. The 2003/2004 watershed survey revealed full attainment of the aquatic life use in the monitored reach of the mainstem assessment unit. However, the mainstem remains threatened by suburban development. The area around the waste lagoons in the lower mainstem showed aquatic life use impairment as recently as 2000. High base flows in 2003 and 2004 likely attenuated some of this impact. DELTs were still elevated in 2004 suggesting the fish remain stressed by pollution.