

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

**LRAU Description**

Great Miami River Mainstem (downstream Tawawa Creek to mouth)

**LRAU Size (mi<sup>2</sup>)**

5371.0

**Integrated Report Assessment Category: 5**

**Priority Points: 11**

**Next Scheduled Monitoring: 2009**

**Aquatic Life Use (ALU) Assessment**

Subcategories of ALU: EWH, WWH

Sampling Year(s): 1994, 1995, 2000

Impairment: Yes (5-Historical Data)

LRAU Total Length (miles): 130.41

No. Miles Full Attainment: 87.42

LRAU Monitored Miles: 130.38

No. Miles Partial Attainment: 39.36

No. Sites Sampled: 89

No. Miles Non-Attainment: 3.60

**% LRAU Attainment (Monitored Miles)**

Full	Partial	Non
67.0	30.2	2.8

High Magnitude Causes

Flow Alteration  
Direct Habitat Alterations  
Organic Enrichment/DO  
Nutrients  
Priority Organics

High Magnitude Sources

Dam Construction - Development  
Flow Reg/Mod - Development  
Major Municipal Point Source  
Upstream Impoundment  
Combined Sewer Overflow  
Major Industrial Point Source  
Removal of Riparian Vegetation - Development

**Recreation Use Assessment**

Subcategory of Use: Primary Contact

Impairment: Yes (5)

Geometric Mean: 296

No. of Ambient Sites: 2

No. of Ambient Sampling Records: 41

75<sup>th</sup> %ile: 700

No. of NPDES MOR Sites: 14

No. of NPDES MOR Records: 948

90<sup>th</sup> %ile: 2320

Other:

**Public Drinking Water Supply Assessment**

Location(s): Great Miami River @RMs 86.6 and 90.3 [Dayton], 118.3 [Piqua] and 130.2 [Sidney]

Impairment: Unknown (3-Insufficient Data)

Nitrate Indicator: Insufficient Data

Cause:

Pesticide Indicator: Insufficient Data, Watch List

**Fish Tissue Assessment**

Large River Sampled: Yes      Impairment: Yes (5)

Miles Monitored: 98.90      Miles Impaired: 98.90

Pollutant(s): PCBs

**Comments**

Biological and water quality surveys were conducted throughout the mainstem in 1994 (upper Great Miami River) and 1995 (lower Great Miami River). Sampling was conducted in the Middletown reach of the river in 2000. Most of the mainstem assessment unit is in full or partial attainment of designated aquatic life uses (EWH and WWH) based on biological criteria. However, 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. Due to the age of most of the bioassessment data, aquatic life use status is now considered unknown.