

**Ohio EPA 2002 Integrated Report Appendix C
Assessment Unit (AU) Summaries**

HUC11	AU Description	AU Size (mi2)
04110003 020	Chagrin River (headwaters to downstream Aurora Branch)	119.5

Aquatic Life Use Assessment

Sampling Year(s): 1994, 1995, 1996

Sampling Site Size Distribution (mi2)

Aquatic Life Use(s): CWH,EWH,WWH

# Sites Sampled:	<5	5-20	20-50	>50
	10	9	5	8

Impairment? Yes

% Attainment

	<u>Full</u>	<u>Partial</u>	<u>Non</u>
Small Streams (sites w/<50 mi2 drainage):	66.1	26.1	7.8
Large Streams/Rivers (sites w/>50 mi2 drainage):	97.8	2.2	0.0

AU Score
(relative amount of attainment)

Weighted AU Score
(relative amount of attainment weighted by AU size)

<u>Full</u>	<u>Partial</u>	<u>Non</u>
0.82	0.14	0.04

<u>Full</u>	<u>Partial</u>	<u>Non</u>
97.9	17.0	4.6

High Magnitude Causes

High Magnitude Sources

- Mercury
- Unionized Ammonia
- Chlorine
- Organic Enrichment/DO
- Thermal Modifications
- Flow Alteration
- Other Habitat Alterations
- Noxious Aquatic Plants

- Filling and Draining
- Major Industrial Point Source
- Package Plants (Small Flows)
- Highway/Road/Bridge/Sewer Line
- Onsite Wastewater Systems (Septic Tanks)
- Drainage/Filling of Wetlands - Dev.
- Natural
- Upstream Impoundment

Recreation Use Assessment

of Samples w/ an Ohio WQS Violation of the Secondary Contact Recreation Maximum Criterion

>5000 colonies/100 ml. fecal coliform bacteria: 0

>576 colonies/100 ml. E. coli bacteria): 3

Sites in AU w/ Bacteria Violations: 2

Total # Bacteria Sites in AU: 2

Other:

Impairment? Indeterminate

Fish Consumption Assessment

A "One Meal per Month" Fish Consumption Advisory is in effect for the Chagrin River (Rock Bass, Smallmouth Bass). The area under the advisory includes the entire length of the river.

Integrated Report Assessment Category: 5

Priority: 4

Scheduled Monitoring: 2004