Ohio EPA 2008 Integrated Report Section M4
Lake Erie Assessment Unit Results

Lake Erie AU Description
Lake Erie Western Basin Shoreline (including Maumee Bay and Sandusky Bay)

Integrated Report Assessment Category: 5
Priority Points: 9
Next Scheduled Monitoring: 2012

Aquatic Life Use (ALU) Assessment
Subcategories of ALU: EWH
Impairment: Yes (5)
Sampling Year(s): 2000 - 2002
No. Sites Sampled: 10
% Lake Erie AU Attainment (Monitored Sites)

<table>
<thead>
<tr>
<th></th>
<th>Full</th>
<th>Partial</th>
<th>Non</th>
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<tbody>
<tr>
<td></td>
<td>0.0</td>
<td>0.0</td>
<td>100.0</td>
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</table>

High Magnitude Causes
Nutrients
Siltation
Organic Enrichment/DO
Exotic Species
High Magnitude Sources
Municipal Point Source
Combined Sewer Overflow
Nonirrigated Crop Production

Recreation Use Assessment
Subcategory of Use: Bathing Waters
Impairment: Yes (5)
Number of Beaches: 8
Average No. Days E. coli Criteria Exceeded per Beach per Season: 11

Public Drinking Water Supply Assessment
Location(s): [Sandusky, Marblehead, Ottawa County Regional, Erie Industrial Park, Carrol Water & Sewer, Oregon, Toledo]
Impairment: No (1)
Nitrate Indicator: Full Support
Pesticide Indicator: Insufficient Data, Watch List

Fish Tissue Assessment
Waters Within the Lake Erie AU Sampled and Assessed: Yes
Impairment: Yes (5)
Pollutant(s): PCBs
Shoreline Miles Monitored: 119.90
Shoreline Miles Impaired: 119.90

Comments
The aquatic life use assessment was restricted to fish community data collected from the Western Basin using monitoring and assessment protocols developed for the Lake Erie shoreline habitat. Except for a few locations collected from 2000 to 2002, most data in this assessment unit are now more than 10 years old and are considered historical.
Lake Erie AU Description
Lake Erie Central Basin Shoreline


Aquatic Life Use (ALU) Assessment

<table>
<thead>
<tr>
<th>Subcategories of ALU</th>
<th>Sampling Year(s): 1997 - 2002</th>
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<tbody>
<tr>
<td>EWH</td>
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</table>

Impairment: Yes (5)

<table>
<thead>
<tr>
<th>Lake Erie AU Total Length (miles)</th>
<th>132.40</th>
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<tbody>
<tr>
<td>Lake Erie AU Monitored Miles:</td>
<td>114.80</td>
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<tr>
<td>No. Sites Sampled:</td>
<td>32</td>
</tr>
<tr>
<td>% Lake Erie AU Attainment (Monitored Sites)</td>
<td>Full</td>
</tr>
<tr>
<td>-----------------------------------</td>
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</tr>
<tr>
<td>No. Sites Full Attainment:</td>
<td>3</td>
</tr>
<tr>
<td>No. Sites Partial Attainment:</td>
<td>9</td>
</tr>
<tr>
<td>No. Sites Non-Attainment:</td>
<td>20</td>
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</table>

High Magnitude Causes

- Nutrients
- Siltation
- Direct Habitat Alterations
- Exotic Species

High Magnitude Sources

- Major Municipal Point Source
- Combined Sewer Overflow
- Urban Runoff/Storm Sewers (NPS)
- Nonirrigated Crop Production
- Streambank Modification/Destabilization
- Habitat Modifications other than Hydromodification
- Other

Recreation Use Assessment

Subcategory of Use: Bathing Waters

Impairment: Yes (5)  Cause: Pathogens
Number of Beaches: 13  Average No. Days E. coli Criteria Exceeded per Beach per Season: 18

Public Drinking Water Supply Assessment

Location(s): [Conneaut, Ashtabula-Ohio American Water, Lake County East, Lake County West, Painesville, Fairport Harbor, Mentor-Aqua Ohio, Cleveland, Avon Lake, Elyria, Lorain, Vermilion, Huron]

Impairment: No (1)  Cause: Pathogens
Nitrate Indicator: Full Support  Pesticide Indicator: Insufficient Data

Fish Tissue Assessment

Waters Within the Lake Erie AU Sampled and Assessed: Yes
Impairment: Yes (5)  Pollutant(s): PCBs
Shoreline Miles Monitored: 132.40  Shoreline Miles Impaired: 132.40

Comments

The aquatic life use assessment was restricted to fish community data collected from the Central Basin using monitoring and assessment protocols developed for the Lake Erie shoreline habitat. Nearly half of this data was collected prior to 1997 and is now considered historical.
Lake Erie AU Description
Lake Erie Islands Shoreline

Integrated Report Assessment Category: 5
Next Scheduled Monitoring: 2012
Priority Points: 4

Aquatic Life Use (ALU) Assessment
Subcategories of ALU: EWH
Impairment: Yes (5)
Sampling Year(s): 2000, 2002
No. Sites Sampled: 7
Lake Erie AU Total Length (miles): 37.20
Lake Erie AU Monitored Miles: 12.10
% Lake Erie AU Attainment (Monitored Sites)
<table>
<thead>
<tr>
<th>Full</th>
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<tr>
<td>28.6</td>
<td>28.6</td>
<td>42.8</td>
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</table>
High Magnitude Causes
Nutrients
Siltation
Direct Habitat Alterations
Exotic Species
High Magnitude Sources
Municipal Point Source
Combined Sewer Overflow
Nonirrigated Crop Production
Other

Recreation Use Assessment
Subcategory of Use: Bathing Waters
Impairment: No (1)
Number of Beaches: 2
Cause:
Average No. Days E. coli Criteria Exceeded per Beach per Season: 0

Public Drinking Water Supply Assessment
Location(s): {Kelleys Island, Camp Patmos, Lake Erie Utility Co., Put-in-Bay}
Impairment: No (1)
Nitrate Indicator: Full Support
Pesticide Indicator: Insufficient Data

Fish Tissue Assessment
Waters Within the Lake Erie AU Sampled and Assessed: Yes
Impairment: Yes (5)
Pollutant(s): PCBs
Shoreline Miles Monitored: 37.20
Shoreline Miles Impaired: 37.20

Comments
The aquatic life use assessment was restricted to fish community data collected from the Lake Erie Islands using monitoring and assessment protocols developed for the Lake Erie shoreline habitat.