



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10

1200 Sixth Avenue
Seattle, Washington 98101

Reply to
Attn of: WD-139

JAN 13 1993

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Department of Ecology
Water Quality Program
JAN 15 1993

Michael T. Llewelyn, Program Manager
Water Quality Program
Washington Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

Re: Approval of Total Maximum Daily Load (TMDL) for Lake Fenwick - Total Phosphorus

Dear Mr. Llewelyn: *Mike*

I am pleased to approve the following TMDL and associated load allocation that was submitted by your Department on March 9, 1992:

<u>Waterbody Segment</u>	<u>Waterbody Name</u>	<u>TMDL Parameter</u>
WA-09-9100	Lake Fenwick	Total Phosphorus

Under the authority of the Clean Lakes Program, as administered by the Environmental Protection Agency (EPA), a comprehensive lake and watershed management plan, including an implementation schedule, was developed for Lake Fenwick. The plan, which is to be conducted in two phases, contains a combination of regulatory watershed controls, structural watershed controls, and in-lake restoration techniques. By implementing the plan, continued progress will be made toward attaining water quality standards in Lake Fenwick. The Clean Lakes Program approved the plan as meeting the requirements of that program. In addition, the plan, as approved, is equivalent to establishing a TMDL for Lake Fenwick.

By EPA's approval of this TMDL, it is now incorporated into the state's water quality management plan.

Sincerely,

Charles E. Findley
Director, Water Division

cc: Lynn Singleton, Ecology
Steve Butkus, Ecology
Will Kendra, Ecology

TOTAL MAXIMUM DAILY LOAD

Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

Developed pursuant to 40 CFR 130.7 and the Federal Clean Water Act

WATERBODY SEGMENT: WA-09-9100

Lake Fenwick
(outlet at TRS 22N-04E-26)

RECEIVING SYSTEM INFORMATION:

Basin: Duwamish-Green
County: King

TMDL PARAMETER:

Total Phosphorus

APPLICABLE RULES:

WAC 173-201-035(8)
WAC 173-201-045(5)(viii)
City of Kent Ordinances

SOURCES COVERED BY THIS TMDL:

<u>Allocation</u>	<u>Source Description</u>
<u>Type</u>	
LA	Lake Fenwick Tributaries

TMDL:

A loading capacity for total phosphorus of 0.22 kg P per day (79 kg P/yr) to Lake Fenwick has been determined. This loading rate has been shown to be consistent with maintaining an average in-lake total phosphorus concentration of 19 ug P/l.

Technical Documents:

ENTRANCO. 1991. Lake Fenwick: Phase IB Restoration Project. Report to the City of Kent, WA.

Public Participation:

In June 1991, a public meeting was held to discuss studies on the lake water quality and present various available alternatives for improvement of water quality. Meeting discussions focused on the level of improvement likely with each alternative and the associated costs. Based on public responses, the City of Kent has chosen a particular set of restoration activities that will achieve a water quality standard for aesthetic enjoyment acceptable by the lake user community. These activities have been formalized in the application for funding through a Phase II Clean Lakes Program grant.

Implementation:

Implementation is scheduled to occur in two stages. Phase IIA implementation is scheduled to be completed by November 1995 and Phase IIB completion is planned for December 1998.

Monitoring:

Both stages of Phase II implementation plans identify monitoring activities for evaluation of load allocation effectiveness. The plans include monitoring for phosphorus and other parameters in the lake water column, at the lake outfall, in the lake sediments, from adjacent wetland enhancements, and fishery surveys.