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U.S. Fish and Wildlife Service
Marquette Biological Station
3090 Wright Street
Marquette, Michigan 49855
U.S.A.

and

U.S. Fish and Wildlife Service
Ludington Biological Station
5050 Commerce Drive
Ludington, Michigan 49431
U.S.A.

and

Fisheries and Oceans Canada
Sea Lamprey Control Centre
1219 Queen Street East
Sault Ste. Marie, Ontario P6A 2E5
Canada

TECHNICAL OPERATING PROCEDURE

PROCEDURE TITLE:

Procedures for Protecting Populations of State -Listed Endangered and Threatened Species During Lampricide Treatments.

APPLICABILITY:

Protocol applies to treatment of waters with known populations of state-listed endangered and threatened species.

PRINCIPLE:

To protect state-listed endangered and threatened species during applications of lampricides.

SAMPLE COLLECTION AND PRESERVATION:

Not applicable

EQUIPMENT REQUIRED:

Not applicable

POTENTIAL INTERFERENCES:

Not applicable

SAFETY:

Not applicable

DISPOSAL:

Not applicable

REAGENTS:

Not applicable

PROCEDURES:

INTRODUCTION

State-listed endangered and threatened species exist in and near streams of North America. The Sea Lamprey Control Program (SLCP) consults with state agencies in the eight states bordering the Great Lakes each year to identify streams that support populations of state-listed species where lampricide treatments are proposed.

Actions will be taken to minimize the effect of SLCP activities to state-listed endangered and threatened species (e.g. Lake Sturgeon – see Attachment 1). If a lampricide treatment is required in a stream in which a state-listed species is known to exist, the following will be initiated:

- I. Consultation will be initiated between the SLCP (Risk Management Team Leader and Larval Unit Supervisor) and the endangered species program of the state in which the scheduled treatment is located to discuss and to negotiate:
 - A. Selection of a treatment scenario that minimizes risk to the species.
 - B. Adoption of a treatment schedule for application at a time when the species is least vulnerable.
 - C. Application for an incidental take permit through the appropriate regulatory agency.
 - D. Election not to apply lampricides.
 - E. Conducting toxicity tests with lampricides (TFM and/or a combination of TFM and Bayluscide) on certain life stages of:
 1. a surrogate species if a suitable substitute exists and is available in sufficient numbers
 - or*
 2. the listed species if available in sufficient numbers from areas in which the species is not listed.
- II. The following protocols will be distributed annually to all field personnel involved in the treatment of streams:
 - A. *Protocol to Protect and Avoid Disturbance to Federal and State-Listed Endangered, Threatened, Candidate, Proposed, or Special Concern Species and Critical or Proposed Critical Habitats in or near Great Lakes Streams Scheduled for Lampricide Treatments in the United States*
 - B. *Protocol to Protect and Avoid Disturbance to Federal and State-Listed Endangered,*

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*Threatened, Candidate, Proposed, or Special Concern Species and Critical or Proposed
Critical Habitats in or near Great Lakes Streams Scheduled for Granular Bayluscide
Assessments in the United States*

REFERENCES:

State Endangered Species Acts.

This procedure has been reviewed and approved by the undersigned representative of the U.S.
Fish and Wildlife Service.

REVIEWED/APPROVED _____ DATE _____
Field Supervisor (U.S.)