

NMFRO Boat Electrofishing HACCP Plan

- 1. Product Description
- 2. Flow Diagram
- 3. Potential Hazards
- 4. Hazard Analysis Worksheet
- 5. HACCP Plan Form

1. Product Description

Firm Name:	New Mexico Fishery Resources Office
Firm Address:	2105 Osuna NE Albuquerque, NM 87113
Species of fish:	all
Cultured, wild harvested, or both:	n/a
Harvest method:	Boat electrofishing gear
Method of distribution and storage:	n/a
Intended use and consumer:	Fishery survey data collection using boat electrofishing gear

2. Flow Diagram

Step 1	Launch boat
Step 2	Sample using boat mounted electrofishing equipment
Step 3	Capture fish using dip nets
Step 4	Put fish in live wells, measure &/or tag fish, release fish back into water. Occasionally fish will be kept for voucher specimens, contaminant analysis, genetic analysis, or other purposes.
Step 5	Load boat on trailer & drive (trailer the boat) to another site or back to the office
Step 6	Either sample another location or return to office & store gear/equipment
Step 7	Any fish kept will be handled according to intended purposes
Step 8	
Step 9	
Step 10	
Step 11	
Step 12	

3. Potential Hazards

List aquatic species here that are found in hatchery water supply or local waters that could potentially hitchhike to receiving waters and cause ecological harm. These are called *Aquatic Nuisance Species* (ANS).

- a. **ANS Fish:** any fish species not native to NM
- b. **ANS Other Vertebrates:** Includes bullfrog tadpoles, African clawed frog tadpoles
- c. **ANS Invertebrates:** crayfish, whirling disease
- d. **ANS Plants:** giant salvinia

4. Hazard Analysis Worksheet

(1) Harvest or Aquaculture Step	(2) Identify potential ANS hazards introduced or controlled at this step (1)	(3) Are any potential ANS hazards significant? (Yes/No)	(4) Justify your decisions for column 3.	(5) What preventive measures can be applied to prevent the significant hazards?	(6) Is this step a critical control point? (Yes/No)
6. Either sample another location or return to office & store gear/equipment	Fish	yes	Some fish species aren't in all watersheds	Empty all live wells & dispose of all fish properly	yes
	Other Vertebrates	yes	Some other vertebrate species aren't in all watersheds	Empty all live wells & dispose of all animals properly	yes
	Invertebrate	yes	Some invertebrate species aren't in all watersheds	Wash gear & equipment with disinfectant, allow to dry before using again	yes
	Plant	yes	Some plants aren't in all watersheds	Wash gear & equipment with disinfectant, allow to dry before using again	yes
	Fish				
	Other Vertebrates				
	Invertebrate				
	Plant				
	Fish				
	Other Vertebrates				
	Invertebrate				
	Plant				
	Fish				
	Other Vertebrates				
	Invertebrate				
	Plant				
	Fish				
	Other Vertebrates				
	Invertebrate				
	Plant				
	Fish				
	Other Vertebrates				
	Invertebrate				
	Plant				
	Fish				
	Other Vertebrates				
	Invertebrate				
	Plant				

5. HACCP Plan Form

(1) Critical Control Point (CCP)	(2) Significant Hazard(s)	(3) Control Measures	Monitoring				(8) Corrective Actions(s)	(9) Records	(10) Verification
			(4) What	(5) How	(6) Frequency	(7) Who			
6. Either sample another location or return to office & store gear/equipment	fish, other verts, inverts, plants	0 - fish 0 - other verts 0 - crayfish 0 - live plants	inspection of boat, trailer, & gear	visually	after each sampling trip	Project Coordinator or delegated employee	re-wash gear	Each Project Coordinator will record the date that all equipment was cleaned. This will be necessary before the equipment can be used again.	No animal or plant matter or mud present on or in boat, trailer, or sampling gear.

Firm Name: NMFRO	Species of Fish: all
Firm Address: 2105 Osuna NE Albuquerque, NM 87113	Method of Storage and Distribution: N/A
Signature: Jim Brooks	Intended Use and Consumer: Fishery survey data collection using boat electrofishing gear.
Date: 05-31-02	