

Fish Hauling HACCP

HACCP Step 1 - Activity Description	
Facility: Iowa DNR	Site: Statewide
Project Coordinator: Jason Euchner	Project Description: Fish collection
Site Manager: Local Biologist or Technician	
Address: 1436 255th St, Boone, IA 50036	
Phone: 515-432-2823	

Project Description (Who, What, Where, When, How & Why)
<p>Who: Iowa DNR fisheries personnel.</p> <p>What: Fish collection for use at fish clinics, and state fair.</p> <p>When: During sampling season.</p> <p>Where: Statewide</p> <p>How: With standard electrofishing and netting.</p> <p>Why: To have display fish at fish clinics, and state fair.</p>

Fish Hauling HACCP

HACCP Step 2 - Potential Hazard Identification

Vertebrates:

Asian Carp, Round Goby, White Perch, Ruffe

Invertebrates:

Zebra Mussels, Quagga Mussels, and Spiny Water Flea

Plants:

Brittle Naiad, Eurasian watermilfoil, and Curly-leaf pondweed

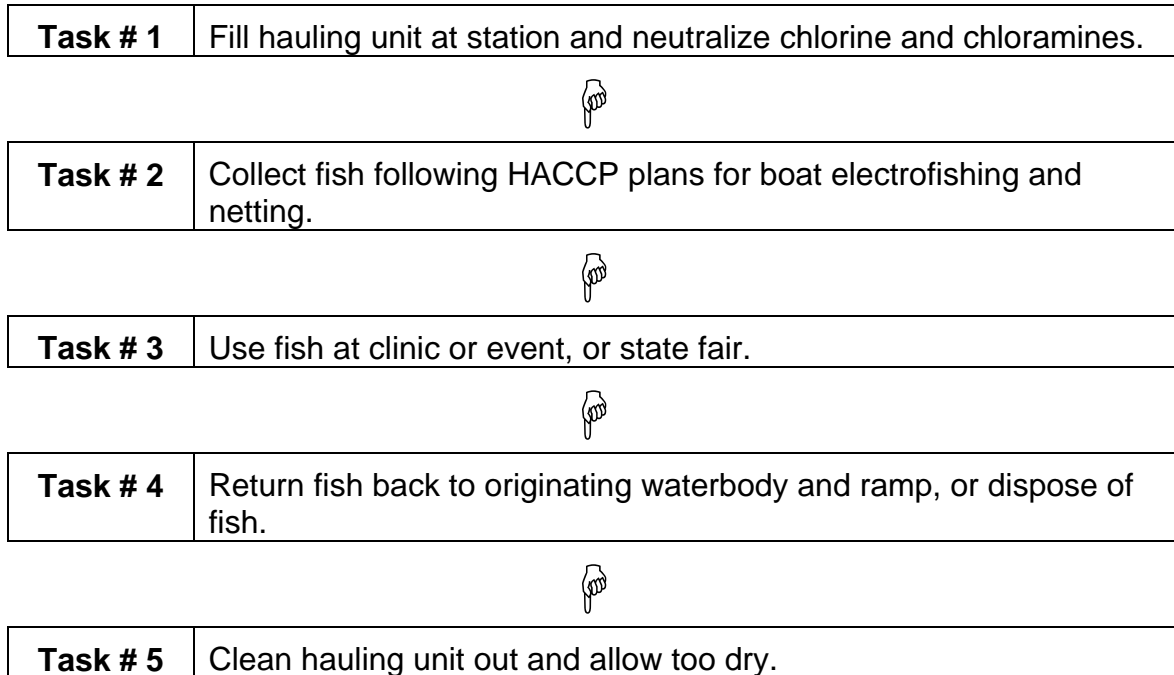
Other Biologics:

VHS (viral hemorrhagic septicemia) LMBV (largemouth bass virus)

Others:

Fish Hauling HACCP

HACCP Step 3 - Flow Diagram



Fish Hauling HACCP

HACCP Step 4 - Hazard Analysis

Task	Hazard	Probable?	Justification	Control Measures	CCP?
Fill hauling unit at station and neutralize chlorine and chloramines.	Vertebrate: Asian Carp, Round Goby, White Perch, Ruffe	No	Tank should be clean from previous uses.		No
	Invertebrate: Zebra Mussels, Quagga Mussels, and Spiny Water Flea	No	Tank should be clean from previous uses.		No
	Plant: Brittle Naiad, Eurasian watermilfoil, and Curly-leaf pondweed	No	Tank should be clean from previous uses.		No
	Other Biologic: VHS (viral hemorrhagic septicemia) LMBV (largemouth bass virus)	No	Tank should be clean from previous uses.		No
Collect fish following HACCP plans for boat electrofishing and netting.	Vertebrate: Asian Carp, Round Goby, White Perch, Ruffe	Yes	Could be collected during this task.	Refer to HACCP plans for boat electrofishing, and netting.	No
	Invertebrate: Zebra Mussels, Quagga Mussels, and Spiny Water Flea	Yes	Could be collected during this task.	Refer to HACCP plans for boat electrofishing, and netting.	No
	Plant: Brittle Naiad, Eurasian watermilfoil, and Curly-leaf pondweed	Yes	Could be collected during this task.	Refer to HACCP plans for boat electrofishing, and netting.	No

Fish Hauling HACCP

	Other Biologic: VHS (viral hemorrhagic septicemia) LMBV (largemouth bass virus)	Yes	Could be collected during this task.	Refer to HACCP plans for boat electrofishing, and netting.	No
Use fish at clinic or event, or state fair.	Vertebrate: Asian Carp, Round Goby, White Perch, Ruffe	No	Fish and water are not being released anywhere.		No
	Invertebrate: Zebra Mussels, Quagga Mussels, and Spiny Water Flea	No	Fish and water are not being released anywhere.		No
	Plant: Brittle Naiad, Eurasian watermilfoil, and Curly-leaf pondweed	No	Fish and water are not being released anywhere.		No
	Other Biologic: VHS (viral hemorrhagic septicemia) LMBV (largemouth bass virus)	No	Fish and water are not being released anywhere.		No
Return fish back to originating waterbody and ramp, or dispose of fish.	Vertebrate: Asian Carp, Round Goby, White Perch, Ruffe	Yes	Eggs could be in water or on fish in tank.	Water and fish can only be released back at originating boat ramp or disposed of properly. Can't be released into nearest waterbody to fishing clinic.	Yes
	Invertebrate: Zebra Mussels, Quagga Mussels,	Yes	Veligers could be present in water.	Water and fish can only be released	Yes

Fish Hauling HACCP

	and Spiny Water Flea			back at originating boat ramp or disposed of properly. Can't be released into nearest waterbody to fishing clinic.	
	Plant: Brittle Naiad, Eurasian watermilfoil, and Curly-leaf pondweed	Yes	Plant fragments could be present in tank.	Water and fish can only be released back at originating boat ramp or disposed of properly. Can't be released into nearest waterbody to fishing clinic.	Yes
	Other Biologic: VHS (viral hemorrhagic septicemia) LMBV (largemouth bass virus)	Yes	Biological hazards could be present in water.	Water and fish can only be released back at originating boat ramp or disposed of properly. Can't be released into nearest waterbody to fishing clinic.	Yes
Clean hauling unit out and allow too dry.	Vertebrate: Asian Carp, Round Goby, White Perch, Ruffe	No	Hauling unit should be clean.		No
	Invertebrate: Zebra	No	Hauling unit should		No

Fish Hauling HACCP

	Mussels, Quagga Mussels, and Spiny Water Flea		be clean.		
	Plant: Brittle Naiad, Eurasian watermilfoil, and Curly-leaf pondweed	No	Hauling unit should be clean.		No
	Other Biologic: VHS (viral hemorrhagic septicemia) LMBV (largemouth bass virus)	No	Hauling unit should be clean.		No

Fish Hauling HACCP

HACCP Step 5 - HACCP Plan

Critical Control Point #1:

Task # 4: Return fish back to originating waterbody and ramp, or dispose of fish.

Significant Hazards:

Vertebrate: Asian Carp, Round Goby, White Perch, Ruffe

Control Measures:

Water and fish can only be released back at originating boat ramp or disposed of properly. Can't be released into nearest waterbody to fishing clinic.

Limits for Control Measures:

Water and fish must be released back at originating waterbody, and ramp. If not releasing fish back into water dispose of fish properly.

Monitoring: What?

Water and fish.

Monitoring: How?

Visual.

Monitoring: Frequency?

Once.

Monitoring: Who?

Fisheries biologist or technician.

Evaluation & Corrective Actions:

Water and fish can't be released anywhere other than originating waterbody.

Supporting Documentation:

Critical Control Point #2:

Task # 4: Return fish back to originating waterbody and ramp, or dispose of fish.

Significant Hazards:

Invertebrate: Zebra Mussels, Quagga Mussels, and Spiny Water Flea

Control Measures:

Water and fish can only be released back at originating boat ramp or disposed of properly. Can't be released into nearest waterbody to fishing clinic.

Limits for Control Measures:

Water and fish must be released back at originating waterbody, and ramp. If not releasing fish back into water dispose of fish properly.

Monitoring: What?

Water and fish.

Monitoring: How?

Visual.

Monitoring: Frequency?

Fish Hauling HACCP

Once.
Monitoring: Who? Fisheries biologist or technician.
Evaluation & Corrective Actions: Water and fish can't be released anywhere other than originating waterbody.
Supporting Documentation:
Critical Control Point #3: Task # 4: Return fish back to originating waterbody and ramp, or dispose of fish.
Significant Hazards: Plant: Brittle Naiad, Eurasian watermilfoil, and Curly-leaf pondweed
Control Measures: Water and fish can only be released back at originating boat ramp or disposed of properly. Can't be released into nearest waterbody to fishing clinic.
Limits for Control Measures: Water and fish must be released back at originating waterbody, and ramp. If not releasing fish back into water dispose of fish properly.
Monitoring: What? Water, fish, and plant fragments.
Monitoring: How? Visual.
Monitoring: Frequency? Once.
Monitoring: Who? Fisheries biologist or technician.
Evaluation & Corrective Actions: Water and fish can't be released anywhere other than originating waterbody. Check for plant fragments as tank is draining.
Supporting Documentation:
Critical Control Point #4: Task # 4: Return fish back to originating waterbody and ramp, or dispose of fish.
Significant Hazards: Other Biologic: VHS (viral hemorrhagic septicemia) LMBV (largemouth bass virus)
Control Measures: Water and fish can only be released back at originating boat ramp or disposed of properly. Can't be released into nearest waterbody to fishing clinic.
Limits for Control Measures:

Fish Hauling HACCP

Water and fish must be released back at originating waterbody, and ramp. If not releasing fish back into water dispose of fish properly.	
Monitoring: What? Water and fish	
Monitoring: How? Visual.	
Monitoring: Frequency? Once.	
Monitoring: Who? Fisheries biologist or technician.	
Evaluation & Corrective Actions: Water and fish can't be released anywhere other than originating waterbody.	
Supporting Documentation:	
Facility: Iowa DNR	Activity: Fish collection
Address: 1436 255th St, Boone, IA 50036	
Signature:	Date:

Fish Hauling HACCP

HACCP Checklist: Fish collection

Facility Iowa DNR
Site Statewide
Coordinator Jason Euchner
Manager Local Biologist
Address 1436 255th St., Boone, IA 50036

- Task # 1: Fill hauling unit at station and decloranate.**
- Task # 2: Collect fish following HACCP plans for boat electrofishing and netting.**
- Task # 3: Use fish at clinic or event.**
- Task # 4: Return fish back to originating waterbody and ramp, or dispose of fish.**
CRITICAL CONTROL POINT
 - Hazards were contained
Hazards: Vertebrate: Asian Carp, Round Goby, White Perch, Ruffe
 - Control measures were implemented
Control Measures: Water and fish can only be released back at originating boat ramp or disposed of properly. Can't be released into nearest waterbody to fishing clinic.
 - Control limits were maintained
Control Limits: Water and fish must be released back at originating waterbody, and ramp. If not releasing fish back into water dispose of fish properly.
 - Corrective actions were (performed if necessary)
Corrective Actions: Water and fish can't be released anywhere other than originating waterbody.
- Hazards were contained
Hazards: Invertebrate: Zebra Mussels, Quagga Mussels, and Spiny water flea
- Control measures were implemented
Control Measures: Water and fish can only be released back

Fish Hauling HACCP

at originating boat ramp or disposed of properly. Can't be released into nearest waterbody to fishing clinic.

- Control limits were maintained
Control Limits: Water and fish must be released back at originating waterbody, and ramp. If not releasing fish back into water dispose of fish properly.
- Corrective actions were (performed if necessary)
Corrective Actions: Water and fish can't be released anywhere other than originating waterbody.

- Hazards were contained
Hazards: Plant: Brittle Naiad, Eurasian watermilfoil, and Curlyleaf pondweed
- Control measures were implemented
Control Measures: Water and fish can only be released back at originating boat ramp or disposed of properly. Can't be released into nearest waterbody to fishing clinic.
- Control limits were maintained
Control Limits: Water and fish must be released back at originating waterbody, and ramp. If not releasing fish back into water dispose of fish properly.
- Corrective actions were (performed if necessary)
Corrective Actions: Water and fish can't be released anywhere other than originating waterbody. Check for plant fragments as tank is draining.

- Hazards were contained
Hazards: Other Biologic: VHS (viral hemorrhagic septicemia) LMBV (largemouth bass virus)
- Control measures were implemented
Control Measures: Water and fish can only be released back at originating boat ramp or disposed of properly. Can't be released into nearest waterbody to fishing clinic.
- Control limits were maintained
Control Limits: Water and fish must be released back at originating waterbody, and ramp. If not releasing fish back into water dispose of fish properly.
- Corrective actions were (performed if necessary)
Corrective Actions: Water and fish can't be released anywhere

Fish Hauling HACCP

other than originating waterbody.

- Task # 5: Clean hauling unit out and allow too dry.**