

## HACCP Step 1 – Activity Description

| <b>Activity Description</b>  |   |
|--|---|
| Facility: Silver Creek Hatchery  | Site:   |
| Project<br>Coordinator: Roger Sorensen   | Activity/Management Objective:<br><br>Control of non-target species that may use various equipment as a pathway to hatchery |
| Site<br>Manager: Mark Severson   |   |
| Address:<br>PO Box 90804<br>White Mountain Lake, AZ 85912<br>8800 Hatchery Way   |   |
| Phone: 928-537-7513,   |   |
| <b>Project Description</b><br>i.e. Who; What; Where; When; How; Why  |   |
| <p><b>Who:</b> Silver Creek Hatchery, Arizona Game and Fish Department. Specific equipment is construction (rented or owned); distribution equipment (POD and other); Department visitors (Fish Health, water Quality, Hatchery Program Manager)</p> <p><b>What:</b> All agency personnel and associated equipment may have potential to be a pathway for non-resident (hazardous) biological organisms. This is a plan to control the ingress/egress of these potential problems.</p> <p><b>Where:</b> At originating facility</p> <p><b>When:</b> Before POD equipment leaves the facility and before equipment enters the facility.</p> <p><b>How:</b> Inspect, clean, and potentially disinfect equipment as needed to ensure non target organisms do not enter or leave hatchery property.</p> <p><b>Why:</b> Reduce, eliminate, prevent introduction or export of hazards any time equipment is brought to hatchery from an area of potential hazards.</p> |   |

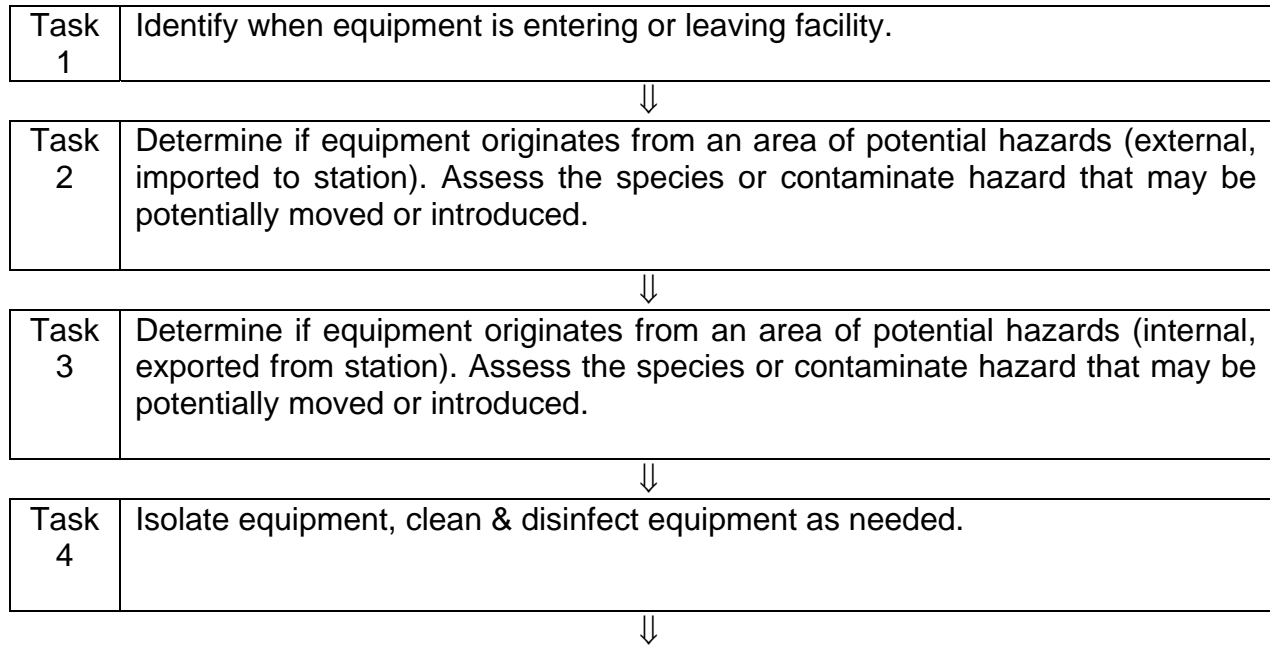
## HACCP Step 2 – Identify Potential Hazards

(to be transferred to column 2 of HACCP Step 4 – Hazard Analysis Worksheet)

| <b>Hazards: Species or Contaminants Which May Potentially Be Moved/Introduced</b>  |
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| Vertebrates:<br>Amphibians are a possibility all though remote.  |
| Invertebrates:<br>Miscellaneous aquatic insects and crayfish   |
| Plants:<br>Aquatic Macrophytes   |
| Other Biologics (e.g. genetics, disease, pathogen, parasite, or non-pathogens):<br>Gyrodactylus, Trichodina, "Ich"<br>Certifiable fish pathogens         |
| Others (non-biological contaminants e.g. pesticide residue, oil products, etc.<br>or harborage via packing or construction materials, etc.):<br><br>None |

### HACCP Step 3 – Flow Diagram

Flow Diagram Outlining Sequential Tasks to Complete Activity/Project  
Described in HACCP Step 1 – Activity Description  
(to be transferred to column 1 of the HACCP Step 4 – Hazard Analysis Worksheet)



### HACCP Step 4 – Hazard Analysis Worksheet

| 1<br>Tasks<br>(from HACCP Step 3 -<br>Flow Diagram) | 2<br>Potential hazards<br>identified in HACCP<br>Step 2 | 3<br>Are any<br>potential<br>hazards<br>significant?<br>(yes/no) | 4<br>Justify evaluation for<br>column 3 | 5<br>What control measures can<br>be applied to prevent<br>undesirable results? | 6<br>Is this task<br>a critical<br>control<br>point?<br>(yes/no) |
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| Task 1<br>Identify when<br>equipment is entering<br>or leaving facility. | Vertebrates<br>Amphibians   | No | They are not considered<br>to be a significant threat.          | All equipment entering the<br>property are restricted to<br>entry parking   | No |
|  | Invertebrates:<br>Miscellaneous aquatic<br>insects and crayfish                     | No | They are not considered<br>to be a significant threat.          | All equipment entering the<br>property are restricted to<br>entry parking until operator<br>has discussed potential for<br>being a pathway has been<br>discussed and determined | No |
|  | Plants:<br>Aquatic Macrophytes  | No | They are not considered<br>to be a significant threat.          | All equipment entering the<br>property are restricted to<br>entry parking until operator<br>has discussed potential for<br>being a pathway has been<br>discussed and determined | No |
|  | Other Biologics<br>Certifiable fish pathogens<br>Gyrodactylus, Trichodina,<br>"Ich" | No | The is an absence of<br>restricted fish pathogens in<br>Arizona | NA  | No |
|  | Others<br>None  | NA | NA  | NA  | NA |

|   |                           |     |  |  |    |
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| Task 2<br>Determine if<br>equipment originates<br>from an area of | Vertebrates<br>Amphibians | Yes | Pathway exists for non<br>target species although<br>remote. | Communication with<br>operator to determine<br>potential for equipment<br>being a pathway; visual<br>inspection. | No |
|---|---------------------------|-----|--|--|----|

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| potential hazards (external, imported to station). Assess the species or contaminate hazard that may be potentially moved or introduced. | Invertebrates:<br>Miscellaneous aquatic insects and crayfish                     | Yes | Pathway exists for non target species although remote. | Communication with operator to determine potential for equipment being a pathway; visual inspection. | No |
|  | Plants:<br>Aquatic Macrophytes   | NA  | Pathway exists for non target species although remote. | Communication with operator to determine potential for equipment being a pathway; visual inspection. | No |
|  | Other Biologics<br>Certifiable fish pathogens<br>Gyrodactylus, Trichodina, "Ich" | Yes | Pathway exists for non target species although remote. | Communication with operator to determine potential for equipment being a pathway; visual inspection. | No |
|  | Others<br>None   | NA  | NA   | NA   | NA |

### HACCP Step 4 – Hazard Analysis Worksheet (continued)

| 1<br>Tasks<br>(from HACCP Step 3 -<br>Flow Diagram)  | 2<br>Potential hazards<br>identified in HACCP<br>Step 2                             | 3<br>Are any<br>potential<br>hazards<br>significant?<br>(yes/no) | 4<br>Justify evaluation for<br>column 3  | 5<br>What control measures can<br>be applied to prevent<br>undesirable results?  | 6<br>Is this task<br>a critical<br>control<br>point?<br>(yes/no) |
|--|---|--|--|--|--|
| <p>Task # 3<br/>Determine if equipment originates from an area of potential hazards (internal, exported from station). Assess the species or contaminate hazard that may be potentially moved or introduced.</p> | Vertebrates<br>Amphibians   | No   | This biological group does not impact production at facility and would not leave the station with fish distribution because of HACCP Plan for distribution | Equipment is cleaned prior to leaving the hatchery facility and all imported equipment is inspected at property entry prior to being allowed into complex. | No   |
|  | Invertebrates:<br>Miscellaneous aquatic<br>insects and crayfish                     | No   | This biological group does not impact production at facility and would not leave the station with fish distribution because of HACCP Plan for distribution | Equipment is cleaned prior to leaving the hatchery facility and all imported equipment is inspected at property entry prior to being allowed into complex. | No   |
|  | Plants:<br>Aquatic Macrophytes  | No   | This biological group does not impact production at facility and would not leave the station with fish distribution because of HACCP Plan for distribution |  | No   |
|  | Other Biologics<br>Certifiable fish pathogens<br>Gyrodactylus, Trichodina,<br>"Ich" | Possible   |  |  | No   |
|  | Others<br>None  | NA   | NA   | NA   | NA   |

|   |   |     |   |  |     |
|---|---|-----|---|--|-----|
| Task # 4<br>Isolate equipment,<br>clean & disinfect<br>equipment as needed. | Vertebrates<br>Amphibians   | No  | It is highly unlikely that this biological group would be transported by equipment used at the facility.  | Communication with operator to determine potential for equipment being a pathway; visual inspection. | No  |
|   | Invertebrates:<br>Miscellaneous aquatic<br>insects and crayfish                     | No  | It is unlikely that this biological group could be transported on the outside of equipment. The fish that are transferred in for production originate at a facility with a captured water supply system and crayfish are not present. | Communication with operator to determine potential for equipment being a pathway; visual inspection. | Yes |
|   | Plants:<br>Aquatic Macrophytes  | No  | It is highly unlikely that this biological group would be transported by equipment used at the facility.  | Communication with operator to determine potential for equipment being a pathway; visual inspection. | No  |
|   | Other Biologics<br>Certifiable fish pathogens<br>Gyrodactylus, Trichodina,<br>"Ich" | Yes | Potential for introduction is always present when production fish are imported.   | Communication with operator to determine potential for equipment being a pathway; visual inspection. | No  |
|   | Others<br>None  | NA  | NA  | NA   | NA  |

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