

HACCP Step 1 – Activity Description

Activity Description	
Facility: Tulsa District Office Various Tulsa District Lakes	Site: Rivers and Reservoirs
Project Coordinator: Everett Laney	Activity: Airboat Use – Interior Least Tern Surveys and Other Activities.
Site Manager: PE-E Branch Chief – District Lake Manager – Reservoirs	
Address: Tulsa District Office 1645 S. 101 st East Ave Tulsa, OK 74128	
Phone: (918) 669-7411	
Project Description i.e. Who; What; Where; When; How; Why	
<p>Tulsa District personnel use airboats to access reaches of rivers that are too shallow to use a conventional boat. This is done for surveillance, rescues, and endangered species surveys. This description assumes the airboat has the potential to be transported to other Project Offices for use.</p> <p>The species listed in this HACCP Plan are of primary concern to the Tulsa District. For a detailed list of additional species, refer to your state’s Aquatic Nuisance Species (ANS) Management Plan.</p> <p>Kansas: http://www.kdwp.state.ks.us/news/Fishing/Aquatic-Nuisance-Species/KS-Nuisance-Species-Plan</p> <p>Oklahoma: http://anstaskforce.gov/State%20Plans/OK/OKLAHOMA%20ANS%20PLAN%20JULY08.pdf</p> <p>Texas: Currently the Texas ANS Management Plan is under development http://www.tpwd.state.tx.us/publications/pwdpubs/media/pwd_pl_t3200_1221_draft.doc</p>	

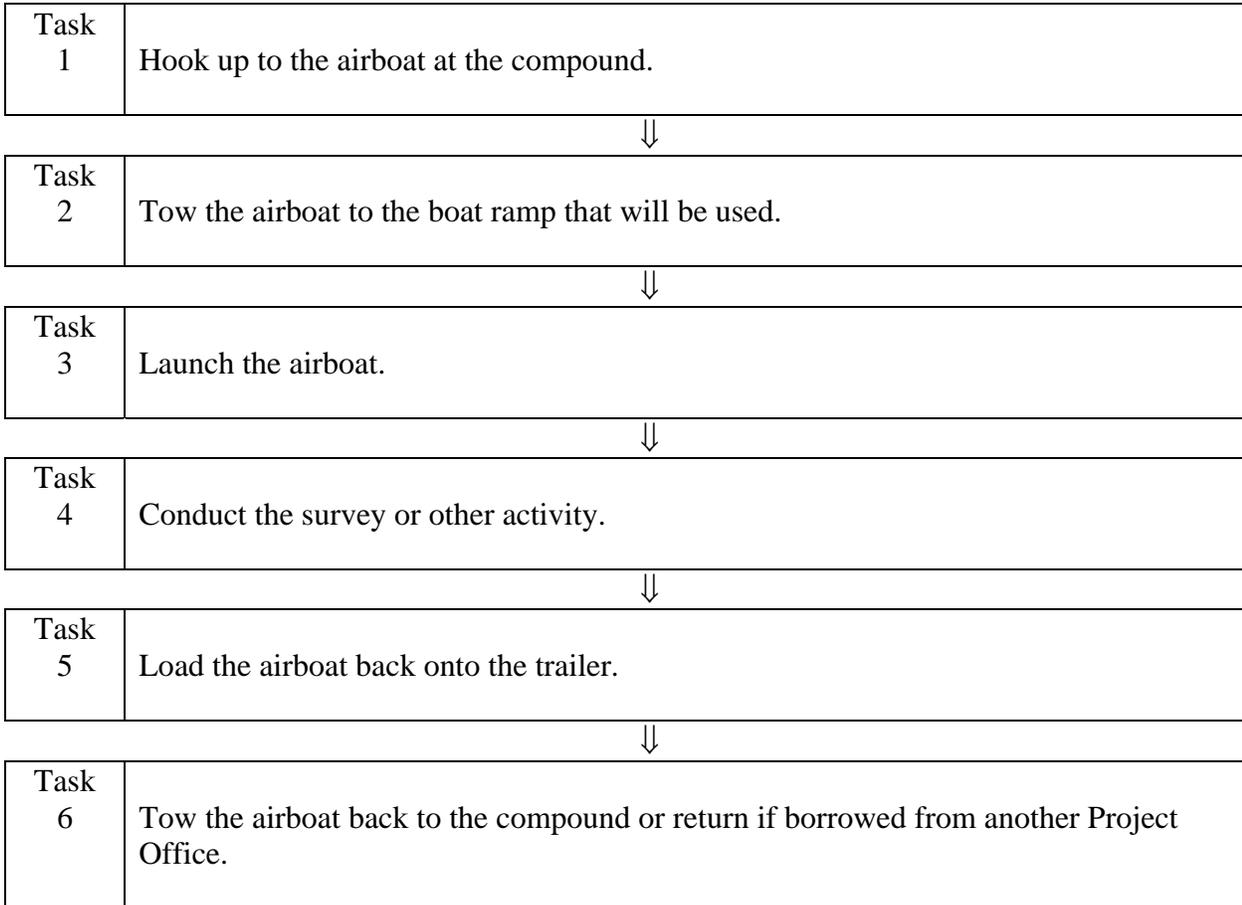
HACCP Step 2 – Identify Potential Hazards

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

Hazards: Species Which May Potentially Be Moved/Introduced
Vertebrates:
Invertebrates: Zebra mussels
Plants: Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)
Other Biologics (e.g. disease, pathogen, parasite):
Others (e.g. construction materials, etc.):

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 Tasks (from HACCP Step 3 - Flow Diagram)	2 Potential hazards identified in HACCP Step 2	3 Are any potential hazards probable? (yes/no)	4 Justify evaluation for column 3	5 What control measures can be applied to prevent undesirable results?	6 Is this task a critical control point? (yes/no)
Task 1 Hook up to the airboat at the compound	Vertebrates	No			No
	Invertebrates Zebra mussels	Yes	Zebra mussels could have gotten on the airboat during the previous survey or other activity.	Check the airboat for zebra mussels. Check to make sure the bilge water has been previously drained.	Yes If the airboat is transported from infested water to non-infested water for use.
	Plants Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)	Yes	Plants could have gotten on the airboat or trailer during the previous usage.	Physically examine the airboat and trailer for weeds and remove any that are seen.	Yes If the airboat is transported from infested water to non-infested water for use.
	Others	No			No
Task 2 Tow the airboat to the boat ramp	Vertebrates	No			No
	Invertebrates	No			No
	Plants	No			No
	Others	No			No

HACCP Step 4 - Hazard Analysis Worksheet (continued)

1 Tasks (from HACCP Step 3 - Flow Diagram)	2 Potential hazards identified in HACCP Step 2	3 Are any potential hazards probable? (yes/no)	4 Justify evaluation for column 3	5 What control measures can be applied to prevent undesirable results?	6 Is this task a critical control point? (yes/no)
Task 3 Launch the airboat	Vertebrates	No			No
	Invertebrates	No			No
	Plants	No			No
	Others	No			No
Task 4 Conduct the survey or other activity	Vertebrates	No			No
	Invertebrates Zebra mussels	Yes	Zebra mussel adults and veligers could get on the airboat during the survey or other activity.	None	No
	Plants Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)	Yes	Plants could get on the airboat while it is on the water.	Avoid driving through weed beds and other vegetation.	No
	Others	No			No

HACCP Step 4 - Hazard Analysis Worksheet (continued)

1 Tasks (from HACCP Step 3 - Flow Diagram)	2 Potential hazards identified in HACCP Step 2	3 Are any potential hazards probable? (yes/no)	4 Justify evaluation for column 3	5 What control measures can be applied to prevent undesirable results?	6 Is this task a critical control point? (yes/no)
Task 5 Load the airboat back onto the trailer	Vertebrates	No			No
	Invertebrates Zebra mussels	Yes	Zebra mussel adults and veligers could have gotten on the airboat and trailer during usage.	Drain the bilge by pulling the plug.	Yes
	Plants Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)	Yes	Plants could have gotten on the airboat and trailer during usage. Algae could have gotten in the bilge and on trailer during usage.	Examine the boat and trailer and remove any plants that are seen. Drain the bilge.	Yes
	Others	No			No

HACCP Step 4 - Hazard Analysis Worksheet (continued)

1 Tasks (from HACCP Step 3 - Flow Diagram)	2 Potential hazards identified in HACCP Step 2	3 Are any potential hazards probable? (yes/no)	4 Justify evaluation for column 3	5 What control measures can be applied to prevent undesirable results?	6 Is this task a critical control point? (yes/no)
Task 6 Tow the airboat back to the compound or return if borrowed from another Project Office	Vertebrates	No			No
	Invertebrates Zebra mussels	Yes	Zebra mussel adults and veligers could still be on the boat and trailer.	Using at least 140°F water, pressure wash the boat and trailer. Using at least 140°F water, pressure wash the anchor and rope (if used) and/or allow anchor storage area to be completely dried before using again.	Yes If the airboat is to be transported from infested water to non-infested water for use.
	Plants Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)	Yes	Plants could have been overlooked at the boat ramp.	Pressure wash the boat and trailer. Pressure wash the anchor and rope (if used) and/or allow anchor storage area to be completely dried before using again.	Yes If the airboat is to be transported from infested water to non-infested water for use.
	Others	No			No

HACCP Step 5 – HACCP Plan Form

HACCP Plan Form

(all CCP's or "yes's" from column 6 of HACCP Step 4 – Hazard Analysis Worksheet)

Critical Control Point (CCP)	Significant Hazard(s)	Limits for each Control Measure	Monitoring				Evaluation & Corrective Action(s) (if needed)	Supporting Documentation (if any)
			What	How	Frequency	Who		
Task 1 Hook up to the airboat at the compound	Zebra mussels Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)	Zero tolerance on the airboat and trailer.	All areas of the airboat and trailer.	Visual inspection and feeling with hands.	Before each use if the airboat has been transported from infested water to non-infested water for use.	Airboat operator	Check the airboat and trailer before each use.	

HACCP Step 5 – HACCP Plan Form (continued)

HACCP Plan Form								
(all CCP's or "yes's" from column 6 of HACCP Step 4 – Hazard Analysis Worksheet)								
Critical Control Point (CCP)	Significant Hazard(s)	Limits for each Control Measure	Monitoring				Evaluation & Corrective Action(s) (if needed)	Supporting Documentation (if any)
			What	How	Frequency	Who		
Task 5 Load the airboat back onto the trailer	Zebra mussels Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)	Zero tolerance in the bilge and on trailer.	Bilge and trailer.	Drain the bilge. Remove any visible zebra mussels and weeds.	Before leaving the ramp.	Airboat operator		

HACCP Step 5 – HACCP Plan Form (continued)

<p align="center">HACCP Plan Form (all CCP's or "yes's" from column 6 of HACCP Step 4 – Hazard Analysis Worksheet)</p>								
Critical Control Point (CCP)	Significant Hazard(s)	Limits for each Control Measure	What	Monitoring			Evaluation & Corrective Action(s) (if needed)	Supporting Documentation (if any)
				How	Frequency	Who		
<p>Task 6 Tow the airboat back to the compound and/or return if borrowed from another Project Office</p>	Zebra mussels Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)	Zero tolerance on airboat and trailer.	All areas of the airboat and trailer. Any part of the pickup that came into contact with the water (i.e. tires, wheels, and fenders).	Pressure wash* the airboat, trailer, and pickup. Pressure wash* the anchor and rope (if used) and/or allow anchor storage area to be completely dried before using again. *Use at least 140°F water for zebra mussels.	After each use when the airboat is used in infested water and is to be transported to non-infested water for use.	Airboat operator		

HACCP Plan has been discussed with all employees. It is the manager's responsibility to review plan with all new employees as required.

Facility:	Address:
Signature:	Date: