

HACCP Step 1 – Activity Description

Activity Description	
Facility: Lock & Dams	Site: Locks & Dams on the McClellan-Kerr Navigation System
Project Coordinator: Everett Laney	Activity: Lock Dewatering – Placement of Stop Logs
Site Manager: Lock Master	
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 and Little Rock District personnel perform scheduled dewatering of lock chambers along the navigation system in both districts. To accomplish the dewatering of a lock chamber, stop logs are set at each end of the chamber and then the chamber is pumped dry. This allows maintenance to be performed inside the dewatered area. Each district has a set of stop logs capable of dewatering one lock chamber. Often two lock chambers are simultaneously dewatered requiring the use of the stop logs from the other district. When not in use, the stop logs are stored at the respective marine terminals in each district. The stop logs are periodically sand blasted and repainted to protect them from corrosion. This task is performed in the compound at the respective marine terminal. This description assumes that the stop logs could be sent outside of the Tulsa and Little Rock Districts 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>

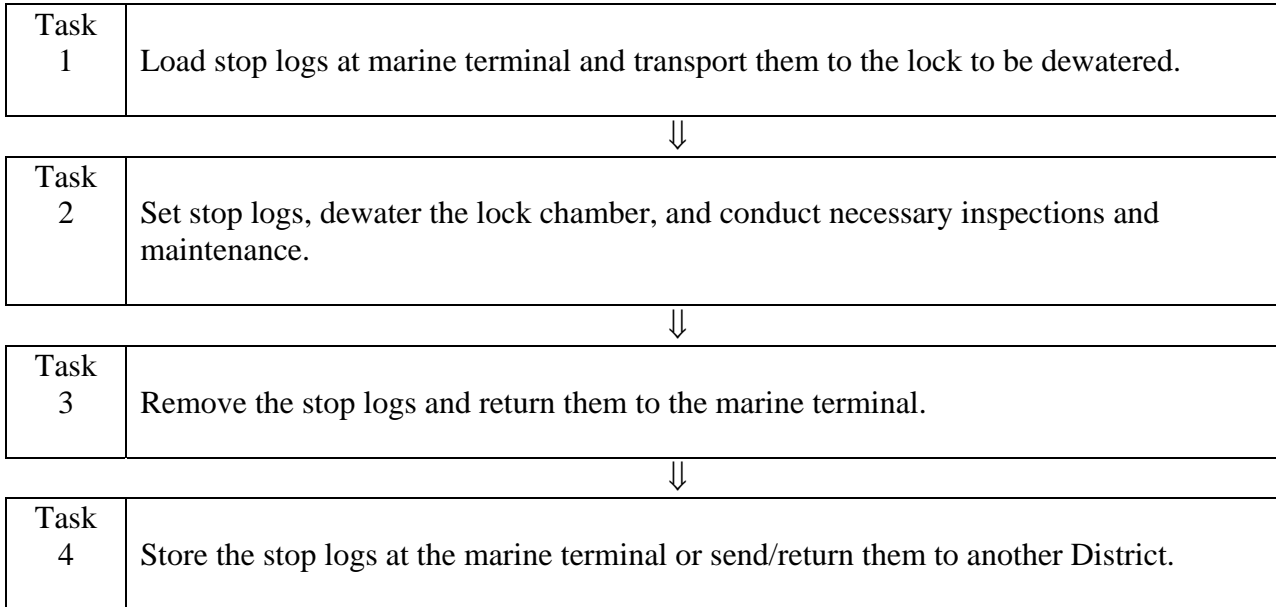
HACCP Step 2 – Identify Potential Hazards

(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 Load stop logs at the marine terminal and transport them to the lock to be dewatered	Vertebrates	No			No
	Invertebrates Zebra mussels	Yes	Zebra mussels are in all of the water of the navigation system in the Tulsa and Little Rock Districts.	None	No
	Plants Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)	No	These plants are in all of the water of the navigation system in the Tulsa and Little Rock Districts.	None	No
	Others	No			No
Task 2 Set the stop logs, dewater the lock chamber, and conduct necessary inspections and maintenance	Vertebrates	No			No
	Invertebrates Zebra mussels	Yes	Zebra mussels could get on the stop logs.	None	No
	Plants Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)	Yes	Any of these plants can get on the stop logs.	None	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 Remove the stop logs and return to the marine terminal	Vertebrates	No			No
	Invertebrates Zebra mussels	Yes	Zebra mussels could have gotten on the stop logs.	None	No
	Plants Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)	Yes	Any of these plants could have gotten on the stop logs.	None	No
	Others	No			No
Task 4 Store the stop logs at the marine terminal or send/return them to another District	Vertebrates	No			No
	Invertebrates Zebra mussels	Yes	Zebra mussels could be on the stop logs.	Using at least 140°F water, pressure wash the stop logs and allow them to completely dry before next use.	Yes If stop logs are to be used or returned outside of the Tulsa and Little Rock Districts.
	Plants Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)	Yes	Plants could be on the stop logs.	Pressure wash the stop logs and allow them to completely dry before next use.	Yes If stop logs are to be used or returned outside of the Tulsa and Little Rock Districts.
	Others	No			No

HACCP Step 5 – HACCP Plan Form

<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 4</p> <p>Store the stop logs at the marine terminal or send/return them to another District</p>	Zebra mussels Eurasian milfoil Alligator weed Common reed – genus <i>Phragmites</i> Algae (golden)	Zero tolerance on stop logs.	The stop logs.	Pressure wash* the stop logs at the terminal.	When the stop logs are to be transported to waters outside of the Tulsa and Little Rock Districts.	Employee conducting the lock dewatering and placement of stop logs.		
				*Use at least 140°F water for zebra mussels.				

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: