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Asian Carp Survivability Experiments and Water Transport Surveys in the Illinois River, Volume II

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January 2013



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16. Abstract (MAXIMUM 200 WORDS)

This report combines two earlier reports regarding investigations into the potential for barges and towboats to transport Asian carp upstream across the United States Army Corps of Engineers' electronic dispersal barrier and release them on the Lake Michigan side of the barrier. It summarizes a series of experiments conducted during June 2011 to evaluate the potential for Asian carp larvae to be entrained into and survive in barge ballast tanks on the Illinois River. It also describes investigations in 2010 and 2012 to determine the amount of water normally carried in barge ballast tanks.

Experiments were conducted in the LaGrange Reach of the Illinois River. Results indicated few Asian carp larvae were entrained and the majority of entrained fish were non-Asian carp, primarily gizzard shad. Survival of Asian carp larvae in test cages in tanks was high, even when water quality conditions were not favorable (low dissolved oxygen concentrations). A very small percentage (0.56%) of Asian carp survived for 30 minutes after being pumped through either a 2-inch or 3-inch pump. Although long-term survival following pumping was not determined, this extremely low survival rate translates to a minimal risk.

Visual inspections of ballast tanks and voids on 132 barges (empty and loaded) and 14 towboats were completed in the Chicago Sanitary and Ship Canal (CSSC) in August 2010. An additional tank survey was conducted in July 2012 on barges operating locally near the electronic dispersal barriers. Overall, only 5 percent of the more than 1000 tanks surveyed contained a measurable amount of water. Dissolved oxygen (DO) in tanks ranged between 0.44 - 7.80 mg/L. Although the water quality conditions were not optimal and water depth was very shallow, tanks could support early developmental stages of Asian carp.

Volume I of this report contains the descriptions, results, and conclusions from the experiments and surveys as well as a description of barge design and normal operating procedures. Volume II is comprised of the appendices containing a test plan for experiments and field and laboratory data sheets from the original reports.

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EXECUTIVE SUMMARY

This volume of four appendices supports "Asian Carp Survivability Experiments and Water Transport Surveys in the Illinois River, Volume I". That volume report combines two earlier reports regarding investigations into the potential for barges and towboats to transport Asian carp across the U. S. Army Corps of Engineers electronic dispersal barriers in the Chicago Shipping and Sanitary Canal. The work was reported earlier in the reports "Survivability of Asian Carp in Barge Tanks in the Illinois River" and "Water Transport during Normal Operations of Towboats and Barges in the Illinois River". Due to the size of the individual reports, their large appendices containing a test plan for experiments and field and laboratory data sheets have been combined as "Asian Carp Survivability Experiments and Water Transport Surveys in the Illinois River, Volume II".

Appendix A is the experimental study plan referred to in "Survivability of Asian Carp in Barge Tanks in the Illinois River". The plan was not previously published but was used as the basis for the 2011 survivability experiments.

Appendix B consists of field and laboratory data sheets that were generated during the survivability experiments. These are broken into sub-sets to deal with the different aspects of the experiments and analyses.

Appendix C contains the data sheets from the 2010 survey of ballast tanks of towboats and barges to determine the volume of water carried during normal barge operations. The information was reported in "Water Transport during Normal Operations of Towboats and Barges in the Illinois River".

Appendix D contains data sheets from a similar survey conducted in 2012 of ballast tanks of barges operating locally near the dispersal barriers. The findings from that effort were used to update the original "Water Transport during Normal Operations of Towboats and Barges in the Illinois River" report.



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LIST OF ACRONYMS

ARTCO/ADM American River Transportation Company/Archer Daniels Midland Co.

COTR Contracting Officer's Technical Representative

CSSC Chicago Sanitary and Ship Canal RDC Research & Development Center

SAIC Science Applications International Corporation

UMRS Upper Mississippi River System
USACE U.S. Army Corps of Engineers
USCG United States Coast Guard
YSI Yellow Springs Instrument



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APPENDIX A. TEST PLAN: ENTRAINMENT AND SURVIVAL OF ASIAN CARP IN BARGE BALLAST TANKS ASIAN CARP TRANSPORT BY TOW BOATS AND BARGES

1 INTRODUCTION

The objective of this project is to determine the potential for early life stages of Asian carp to become entrained into and survive in ballast tanks of barges. This project will also test whether barges and towboats can potentially provide a transport mechanism for Asian carp to bypass the U.S. Army Corps of Engineers (USACE) electric dispersal barrier in the Chicago Sanitary and Ship Canal (CSSC). This study will conduct a series of tests to determine if carp eggs, larvae, or small fry can become entrained, transported, and survive in vessel ballast water and bypass the fish barrier.

Science Applications International Corporation (SAIC) has assembled a team of experts to perform this study. The Team includes the following subcontractors: ECORP Consulting, Tenera Environmental, and the University of Illinois (Illinois River Biological Station). Each of these subcontractors has specific expertise for aquatic resources, ichthyoplankton, and/or Asian Carp ecology. See 0 for a list of the study participants.

2 BACKGROUND

Bighead and silver carp (collectively, Asian carp) were intentionally introduced to Arkansas in the early 1970's. Shortly thereafter, they escaped aquacultural confinement and are now distributed throughout waters of the Upper Mississippi River System (UMRS). Asian carp were introduced to improve water quality of aquaculture ponds. These species invaded rivers through pond escapement or by deliberate introductions and were first documented in the UMRS in 1982. Asian carp are voracious planktivores and reproduce rapidly. They may grow up to 4 feet in length and weigh up to 100 pounds. Asian carp are now some of the most abundant fish species in some areas of the Mississippi River. Some scientists suggest that Asian carp could become a dominant species in the Great Lakes.

USACE constructed a permanent electrical barrier to protect Lake Michigan and the Great Lakes from Asian carp that are moving up the Illinois River. The CSSC Dispersal Barrier stretches two arrays of electrodes across the canal (approximately 220 feet apart). The electrodes pulse direct current into the water; this causes fish to turn back rather than pass through the electric current. In June 2010, the Illinois Department of Natural Resources captured one 20-pound live Asian carp in Lake Calumet, which sits near the Illinois-Indiana border and is connected to Lake Michigan's canal system. This fish represented the first physical specimen that has been found above the electric barrier system. No information exists on potential transport mechanisms for other stages of Asian carp, including eggs and larvae.

Reproductive needs of adult bighead and silver carp are similar and have been well documented (DeGrandchamp, et al., 2007 (Reference 1)). Generally, these species require water temperatures of at least 17.8 °C, with an optimum range of 21-26.8 °C. River flow is also important for successful spawning; with water velocities of 0.7 m/s (2.3 fps) or higher needed for productive spawning. The length of unimpeded river required for successful spawning by silver carp may be 100 km or more (Gorbach and Krykhtin 1980 (Reference 2)).



Yi, et. al. (1988, as translated by Duane Chapman 2006 (Reference 3)) have documented the egg and larval stages of grass, black, silver and bighead carps in the Yangtze River. This early paper also reported the development times, but water temperature were not tightly controlled, so it is not certain if the development times they reported are similar to what would be observed in the Illinois River. Chapman (personal communications) stated that they are currently working on growth and development rates at controlled temperatures to better understand the early egg and larval stages of silver and bighead carp. In the Yangtze River, after the eggs are released and fertilized, they undergo development to the larval stage in between about 33-35 hours and then continue larval development. Chapman (personal communications) stated that after about 100-200 hours, the larvae move out of the current and move into generally shallower areas and are then generally found oriented to natural or man-made substrates.

3 TECHNICAL APPROACH

We propose to conduct all experiments in the La Grange Reach of the Illinois River, between La Grange Lock & Dam located south of Beardstown, Illinois, upstream to Peoria Lock & Dam located near Peoria, Illinois (Figure 1). Asian carp spawning has been often observed in this reach over the past 10 years. This stretch of the river likely contains the greatest ambient densities of wild Asian carp in the world (Sass, et al., 2010, Biological Invasions (Reference 4)). Details concerning each experiment are presented below. Error! Reference source not found, provides data sheets that will be used during these experiments. We will conduct the following testing first in the river current in an area that has been verified to have Asian carp eggs and larvae based on plankton tows. Soon after the first test has been completed, we will conduct a second test period downriver from the start of the first test in an area hopefully containing eggs and larval individuals. If only one spawning event takes place, it is possible that only larger larval stages will be available for this second test based on information from Chapman. It is also possible that these larger larvae might be difficult to catch with the plankton net due to their behavioral change at about 100-200 hours of life. If they cannot be successfully captured using the plankton nets, but can be caught in and around natural and man-made structures using dip nets, then we will use this technique to collect larvae for the second survival experiments that is scheduled to take place in quieter waters. If spawning continues after the first and second tests, an optional third test could be implemented.

3.1 Technical Approach to Evaluate Leakage Effects via Entrainment Experiments (Task 3.4)

For all tests during this study, American River Transportation Company/Archer Daniels Midland Co. (ARTCO/ADM) under contract to the U.S. Coast Guard (USCG) will furnish a barge modified to simulate leakage into ballast tanks. The SAIC Team will coordinate with the barge operator (ARTCO/ADM) and the Contracting Officer's Technical Representative (COTR)/Workgroup to schedule experiments aboard the barge according to the finalized experimental sampling design. Prior to commencing the entrainment experiments, the Team will verify that the barge is located within an area with early life stages of Asian carp by conducting plankton tows in the potential study area. ARTCO/ADM will then position the barge in this area where Asian carp larvae have been located and we will preserve a representative sample of the collected eggs and larvae from that area.





Figure 1. Location of the experiments.

We will conduct plankton tows from a University of Illinois, Illinois River Biological Station research vessel using a 500-micron mesh net deployed at surface water depths. At the conclusion of each tow, we will lift the net from the water and carefully rinse the contents into the cod end (collecting bucket) at the bottom of the net. We will check the collected material for the presence of Asian carp eggs and larvae using a dissecting microscope. When Asian carp eggs and larvae are found, we will mark the location for positioning the test barge. We will preserve a representative sample of the eggs and larvae collected at this location.

The Team will work with ARTCO/ADM to flood four experimental tanks to the depth of approximately 3 feet in the area where Asian carp eggs and larvae were located. At approximately the times defined in the finalized test plan (Table 1), the Team will sequentially pump out the appropriate tank using a 3" water pump. We will adjust this schedule in the field based on the timing of the initial flooding of the tanks. We will filter this pump-out water through a plankton net suspended in the river to help minimize the impact of the eggs and larvae striking the net mesh. We will position the top of the net above the water surface so that water and its contents will be filtered through the net. The Team will immediately analyze each resulting sample following the pump-out to determine the number, life stage, and initial viability of Asian carp eggs



and larvae. We will preserve all viable eggs and larvae in a labeled vial; we will preserve all dead eggs and larvae in a separate labeled vial. We will send all preserved samples to the laboratory at the conclusion of the field testing. The laboratory will record the number of individuals in each life stage number based on the stage numbering system presented by Yi, et al. (1988) (Reference 3).

	I		.,	
Tank #	Fill	Empty	Refill	Empty
1	0	8	12	120
2	0	24	28	132
3	0	48	52	144
4	0	72	76	156

Table 1. Expected fill and empty times in hours.

We will record all field-collected data on data sheets (see **Error! Reference source not found.**) and enter the data into an electronic database (Microsoft® Office Access®) for data analyses.

The barge will drift down the river and try to maintain its proximity to the group of larval carp from which the original plankton tows were collected. Prior to re-flooding each tank after pump-out, we will use additional plankton tows during daylight hours to verify that the barge is in the water mass containing Asian carp eggs and larvae. The Team will then empty and re-flood the appropriate tank. We will analyze the eggs and larvae contained in the pumped-out water soon after collection based on the proposed preliminary schedule in Table 2. We will adjust the times in this table in the field based on the actual time of the first flooding of the barge tanks. In addition to larval fish data, the Team will collect water quality data throughout the study in both the experimental tanks and ambient (river) locations. Water quality parameters to be recorded include water depth, water temperature, dissolved oxygen, pH, and ammonia (total and unionized). We will use a Yellow Springs Instrument (YSI) water quality probe to collect all parameters except ammonia, which will be collected using a Turner Fluorometer. We will collect data at a minimum in early morning and late afternoon for the duration of the experiment. We will record all water quality data on separate sequenced data sheets (see Error! Reference source not found.).

3.2 Technical Approach to Evaluate Asian Carp Survival in Tanks (Task 3.5)

We will run Asian carp survival experiments concurrently with entrainment experiments (Section 3.1). The barge will already be located in an area confirmed by plankton tows to have Asian carp for the entrainment experiments. After the barge tanks are flooded, the Team will deploy three cages containing a known number of eggs and larvae into each flooded tanks. We will construct the cages from 5-gallon buckets with lids. We will cut openings in the sides and lids and will cover the openings with 500-micron mesh netting held in place by aquarium-grade silicone. We will collect Asian carp eggs and larvae using the same plankton net setup used for Task 3.4, but we will limit the tow length to approximately 2-5 minutes to decrease the time the eggs and larvae are in the net. We are targeting 20 eggs and 30 larvae in each cage but, if fewer individuals are available in the river tows, we will adjust this number.



Table 2. Preliminary proposed sampling schedule for Tasks 3.4 - 3.5.

Note: Times are based on flooding and pump-out each taking 2 hours. Task 3.6 will be conducted after Day 1.

running time (hrs)	day	time	Tank 1	1	1	Tank 2	Tank 3 Tank 4		Control A cages	Control B cages	
running time (ms)	0	0800		f oggs and	d langa an	rivae and placement into test cages to help determine handling times. Also determine initial location for b			Control B cages		
	U	0000	premimary conection o	ii eggs aiii	u idivae dii	u piacement into test t	ages to help determine nanding	times. Also determine mittai loca	l		
-3	1	0500	hegin egg/larval collect	n egg/larval collections [A] begin egg/larval collec		/larval collections [A]	hegin egg/larval collections [A]	hegin egg/larval collections [A]	begin egg/larval collections [A]	begin egg/larval collections [A]	
0	1	0800	tank empty, filling b			npty, filling begins	tank empty, filling begins	tank empty, filling begins	begin egg/larvar concertons [/t]	begin egg/iai vai concetions [/i]	
2	1	1000	filling complete	-		ling completed	filling completed	filling completed	cages w/ larvae suspended in river	cages w/ larvae suspended in river	
8	1	1600	begin egg/larval collect		1111	ing completed	minig completed	mining completed	begin egg/larval collections [B]	cages w/ larvae suspended in river	
10	1	1800	pump out begins (8						larvae removed (8 hr) and replaced		
12	1	2000	pump out end, filling						Taivae Terrioveu (8 fil) and Tepraceu		
14	1	2200	filling complete								
14	1	2200	mining complete	u							
24	2	0800			begin egg	g/larval collections [C]				begin egg/larval collections [C]	
26	2	1000			pump	out begins (24 hr)				larvae removed (24 hr) and replaced	
28	2	1200			pump ou	it end, filling begins					
30	2	1400				ling completed					
48	3	0800					begin egg/larval collections [D]				
50	3	1000					pump out begins (48 hr)				
52	3	1200					pump out end, filling begins				
54	3	1400					filling completed				
72	4	0800						begin egg/larval collections [E]	begin egg/larval collections [E]		
74	4	1000						pump out begins (72 hr)	larvae removed (72 hr) and replaced		
76	4	1200						pump out end, filling begins			
78	4	1400						filling completed			
98	5	1000	pump out (108 h	r)							
120	6	0800									
122	6	1000							larvae removed (48 hr)	larvae removed (96 hr)	
134	6	2200			nu	mp out (104 hr)			iaivae removeu (48111)	iaivae removeu (50 m)	
134	- 0	2200			pui	mp out (10-111)					
146	7	1000					pump out (92 hr)				
-	7						p p se (0 - se)	pump out (80 hr)			
158	7	midnight						pump out (80 hr)			

At the conclusion of each tow, we will lift the net from the water and carefully rinse the contents into the cod end. We will transfer the collected material to a holding chamber from which we will remove the Asian carp eggs and larvae and place them in a container of river water that was filtered through 500-micron mesh net. We will place these eggs and larvae in the test cages with three test cages being suspended in each barge tank water soon after they have been flooded. We will record the number of eggs and larvae placed in each numbered cage on a data sheet (Error! Reference source not found.). Just prior to the tanks being pumped out, we will remove the three test cages and record the number of live and dead eggs and larvae in each cage. To determine the effects of ballasting operations and residence time on the viability and survival of Asian carp early life stages, we will analyze the eggs and larvae in each cage for number, life stage, and viability. We will remove eggs considered nonviable and any dead larvae, preserve then in labeled vials, and archive for later analysis in the laboratory. We will preserve all live eggs and larvae in a separate labeled vial. Each vial label will contain at a minimum the date, survey, tank number, fill number, and cage number to allow tracking of the results of each test. We also plan to set up two sets (three each) of control cages each containing live eggs and larvae. We will suspend the control cages in the river off the side of the barge. These controls as set up will allow a determination of viability after 8, 24, 48, 72, and 96 hours of being submerged in the river. We will check the larvae in these cages for viability on the schedule presented in Table 2.

The Team will measure the same water quality parameters as collected in the entrainment study above (Section 3.1), including water depth, water temperature, dissolved oxygen, pH, and ammonia. We will record measurements in the ballast tanks and alongside the barge at least twice daily.

3.3 Technical Approach to Evaluate Pump Effects on Asian Carp (Task 3.6)

We will carry out this task in conjunction with both the entrainment (Section 3.1) and survival (Section 3.2) experiments. With the barge in an area known to have Asian carp eggs and larvae (as verified with plankton tows) and with the assistance of ARTCO/ADM, the Team will pump a known volume of river water (at least 100 gallons) with a 3" water pump into a plankton net submerged in the river in the same manner as is conducted for Task 3.4 (Section 3.1). The Team may also use a 2" water pump to for this testing to compare pump effects with the two pump sizes available on the barge. We will analyze samples collected during this task in the field soon after collection to determine viability of the carp life stages and to assess potential effects of pumping on their viability after a single pass through the pump assembly. We will handle these samples using the same methods described above for the entrainment (Section 3.1) and survival (Section 3.2) experiments to verify number of individuals in each life stage number.

Results of all three experiments and the finalized Test Plan will be presented in the Final Report.

4 REFERENCES

- 1. DeGrandchamp, et al., 2007, Linking Adult Reproduction and Larval Density of Invasive Carp in a Large River.
- 2. Gorbach and Krykhtin, 1980, Maturation rate of the white amur Ctenopharyngodon idella and silver carp Hypophthalmichthys molitrix in the Amur River, Journal of Ichthyology, 21(4):835–843.
- 3. Yi, B., Z. Liang, Z. Yu, R. Lin, and M. Hee, 1988, as translated by Duane Chapman 2006, Gezhouba Water Control Project and four famous fishes in Yangtze River, Hubei Science and Technology Press, Wuhan, China.
- 4. Sass, et al., 2010, Biological Invasions.



Appendix A: Study Participants

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Appendix B: Data Sheets

Figure A-1 through Figure A-3 show the data sheets for the experiments.

(T1 - T4)	Fill # for Tank:_	(F1 - F2)	(T1 - T4)		
Tank #:	_	` ′	` '		
Date:	_				(F1 - F2)
Date:	FILLED		Tank #:	Fill # for Ta	ank:
		<u>EM PTIED</u>		FILLED	<u>EM PTIED</u>
Time:			Date:		_
			Time:		_
Water Depth (ft):			Water Depth (ft):		_
# Hours Filled (Target):	(Ac	tual):	# Hours Filled (Target):	(Actual):
(T1 - T4)		(F1 - F2)	(T1 - T4)		(F1 - F2)
Tank #:	Fill # for Tank:_		Tank #:	Fill # for Ta	ank:
<u> </u>	FILLED	<u>EM PTIED</u>		FILLED	<u>EM PTIED</u>
Date:			Date:		
Time:			Time:		
Water Depth (ft):			Water Depth (ft):		_
# Hours Filled (Target):	(Ac	tual):	# Hours Filled (Target):	(Actual):
(T1 - T4)		(F1 - F2)	(T1 - T4)		(F1 - F2)
Tank #:	Fill # for Tank:_		Tank #:	Fill # for Ta	ank:
<u> </u>	FILLED	<u>EM PTIED</u>		FILLED	<u>EM PTIED</u>
Date:			Date:		
Time:			Time:		
Water Depth (ft):			Water Depth (ft):		_
# Hours Filled (Target):	(Ac	tual):	# Hours Filled (Target):	(Actual):
(T1 - T4)		(F1 - F2)	(T1 - T4)		(F1 - F2)
Tank #:	Fill # for Tank:_		Tank #:	Fill # for Ta	ank:
<u> </u>	FILLED	<u>EM PTIED</u>		FILLED	<u>EM PTIED</u>
Date:			Date:		
Time:			Time:		_
Water Depth (ft):			Water Depth (ft):		_
# Hours Filled (Target):	(Ac	tual):	# Hours Filled (Target):	(Actual):
NOTES			Review By / Date:		

Figure A-1. Entrainment Fill/Empty Data Sheet.

		Coast G	uard/SAI	C Entrainm	ent and	d Survival	of Asiar	n Carp	Surviva	I - FIELD	/LAB Datas	sheet	
Surv	/ey #:				Survey	Start Date	e:	: Sheet #:					
Location:													
						FIELD	DATA						
	Tan										Tank (1-2):	-	
					_		ter; P# - I	Pump R	UN Numbe	er [1 or 2];	C# - Cage N	umber [1	I-21])
				n Volume:			4	# l a		la al\.			
	11 (Jage ine		Inserted): DEAD		ALIVE	(# Laiv	ae msen	.eu):	DEAD	-	AL IVE
	Numl	per of EG		DEAD			N	umbei	r of LAR\	/AE:	DEAD		<u>ALIVE</u>
							DATA						
		mation_	Egg /	Life			Via		<u>nation</u>	Egg /	Life		
- 1	Fill	Task (B, P#,	Larv.	Stage #	Cond.	Carret	Tank		Task (B, P#,	Larv.	Stage #	Cond.	Count
1-14)	(F1-F2)	C#)	(E or L)	(1-48)	(A/D)	Count	(T1-T4)	(F1-F2)	C#)	(E or L)	(1-48)	(A/D)	Count
							-						
							_						
				** ** ** **									
\neg													
_													
NOT	ES							Revi	ew By / [Date:			
									red Bv / [

Figure A-2. Field/Lab Data Sheet.

Coas	t Guard/SAI	C Entrai	Entrainment and Survival of Asian Carp in Ballast Tanks - WATER QUALITY Datasheet Sheet #:													
Surv	ey #:		Survey Start Date:						Loc	ation:						
					AN	Л							PN	Л		
	Date			ter Temp			Am	monia			Wa Depth				Am	monia
Site	(mm/dd/yy)	Time	(ft)	(°C)	DO	pН	Total	Unionized		Time	(ft)	(°C)	DO	pН	Total	Unionized
T1																
T2																
Т3																
T4																
R																
T1																
T2																
Т3																
T4																
R																
T1																
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Figure A-3. Water Quality Data Sheet.

APPENDIX B. FIELD AND LABORATORY DATA SHEETS FROM 2011 SUR-VIVABILITY EXPERIMENTS

Appendix B is comprised of field and laboratory data sheets filled out during the experiments and later analyses. Two sets of experiments or trials were conducted on the Illinois River near Pekin, IL during June 2011. The data sheets are grouped according to experiment type.

Appendix B1: Times for Fill and Empty of each Tank during Entrainment and Survival Testing

Appendix B2: Water Quality Measurement Datasheets

Appendix B3: Trial 1. Asian carp entrainment/leakage (Task 3.4) laboratory datasheet

Appendix B4: Trial 1. Asian carp survival (Task 3.5) laboratory datasheets – in tank cages

Appendix B5: Trial 1. Asian carp survival (Task 3.5) laboratory datasheets – control cages

Appendix B6: Trial 2. Asian carp entrainment/leakage (Task 3.4) laboratory datasheets

Appendix B7: Trial 2. Asian carp survival (Task 3.5) laboratory datasheets – in tank cages

Appendix B8: Trial 2. Asian carp survival (Task 3.5) laboratory datasheets – control cages

Appendix B9: Trial 2. Plankton Tow Datasheets during Tank Filling

NOTE: The word "Survey" in the following datasheets is referred to as "Trial" in the report text. Two (2) trials were conducted for the entrainment, survival, and pump effects experiments.

Appendix B1: Times for Fill and Empty of each Tank during Entrainment and Survival Testing

Coast Guard/SAIC Entrainment and Survival of Asian Carp in Ballast Tanks - FILL/EMPTY Datasheet

Survey #: Run Survey Start Date:	Sheet #:
Location: Peur J BOCK	
(T1 - T4) (F1) F2)	(T1 - T4) (F1 - F2)
Tank #: Fill # for Tank:	Tank #: Fill # for Tank:
FUNISHED STORT TO EMPTIED (2")	FILLED EMPTIED Flage
Date: 11 Jul 11 11/June/11	67 - 11 June 11 June 11 09:
Time: 0925 17:30	1 Time: 9:23 pm - 9:30 end
Water Depth (ft): ± 3 ft, $\rightarrow 51$ a drul	Water Depth (ft): <u>七 零 ^い</u>
# Hours Filled (Target): 🙎 📐 🤉 (Actual): 💍 🦒 🦳	# Hours Filled (Target): 108 (Actual): 32
(T1 - T4) (F1 - F2)	(T1 - T4) (F1 - F2)
Tank #: 17 Fill # for Tank: F1	Tank#: Tank Fill # for Tank: F2
end Start FILLED EMPTIED	end GIRATED DEALD FILLED EMPTIED STATE O 9:30 Am () 31
# used 3" pump FILLED EMPTIED Date: 11 200 11 (17 11	Date: 0 2 0 1 1
Time: 0925 0930	10:30 Time: 12:00 noon 09:15 en
Water Depth (ft): 344 \rightarrow 54" actual	Water Depth (ft): _50.5''
# Hours Filled (Target): <u> </u>	#Hours Filled (Target): 104 hp/5 (Actual): 117
(T1 - T4)	(T1 - T4) (F1 - F2)
Tank #: T3 Fill # for Tank: F1	Tank #: Fill # for Tank:
ディルングはり ちたねて てり FILLED EMPTIED	FILLED EMPTIED
7 Date: 11 LUNE 1 13 5UN 11	START FULL FILLED EMPTIED STAR
Time: 0937 0930	12:12 Time: 12:12 10:45 and
Water Depth (ft): 3 Ed - 44". Gogso	Water Depth (ff): 47 ACCUPE
# Hours Filled (Target): 🕂 🖁 المجال (Actual): 🛂 المجالة الم	# Hours Filled (Target): 97 NRS (Actual): 94.5
(T1 - T4) (F1 - F2)	(T1 - T4) (F1 - F2)
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3 7000 FILLED STATE TO	FILLED EMPTIED
Date: U Suve !!	Date: 14 June 11 6/17/11 She
Time: <u>0930</u> 0935	11:45 V
Water Depth (ft): 3 4 -> 4 7 a dual Puller	Water Depth (ft): 48 "ACTUPE
# Hours Filled (Target): 72 has (Actual): 72 has	# Hours Filled (Target): 80 (Actual): 72
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10.120	Treview by / Date. 9 4/ 50/11
	Entered By / Date: 8HOb -28-(1
1,981	h-Sh2-115 VOZ

Coast Guard/SAIC Entrainment and Survival of Asian Carp in Ballast Tanks - FILL/EMPTY Datasheet

Survey #: 2 Survey Start Date: 4	5/18 \ \ Sheet #: 2
Location: Pekin	
(T1 - T4) (F1 - F2)	(T1 - T4) (F1 - F2)
Tank #: Fill # for Tank:	Tank #: Fill # for Tank:
FILLED EMPTIED	FILLED EMPTIED
Date: 6/18/11 /0/24/11	Date:
15 cage -> Time: 11:20 11:45	Time:
Water Depth (ft): 50	Water Depth (ff):
# Hours Filled (Target): 156 (Actual): 144	# Hours Filled (Target): (Actual):
(T1 - T4) (F1 - F2)	(T1 - T4) (F1 - F2)
Tank#: T2 Fill # for Tank: F1	Tank #: Tank Fill # for Tank: F2
FILLED EMPTIED	<u>FILLED</u> <u>EMPTIED</u>
Date: 6/18/11 6/19/11	Date: 6/19/11 6/24/11
13 (age > Time: 10:35 10:30	Time: 13:32 69:45
Water Depth (ft): 59	Water Depth (ff): 45
# Hours Filled (Target): 24 (Actual): 24	# Hours Filled (Target): (Actual):
(T1 - T4) (F1 - F2)	(T1 - T4) (F1 - F2)
Tank #: Fill # for Tank:	Tank #: T3 Fill # for Tank: F2
FILLED EMPTIED	FILLED EMPTIED
Date: 6 18 11 (0/20 11	Date: (0/20/11 (6/24/11
(acg. Time: 11:00 10:45	Time: 13:10 10:00
Water Depth (ft): 48	Water Depth (ft): 48
# Hours Filled (Target): 48 (Actual): 48	# Hours Filled (Target): (Actual):
(T1 - T4) (F1 - F2).	(T1 - T4) (F1 - F2)
Tank #: Fill # for Tank: F	Tank #: 14 Fill # for Tank: F2
FILLED EMPTIED	FILLED EMPTIED
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Cay Time: 11:10 10:55	Time: 13:00 :30
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Water Depth (ff):	Water Depth (ff):
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recorder: D. Heilprin (Ecorp)

Coast Guard/SAIC Entrainment and Survival of Asian Carp in Ballast Tanks - WATER QUALITY Datasheet
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Sheet #:

Survey#: ー ナルハ

Survey Start Date:

Location: Pekin, IL

(Artco Fleeting)

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ate	Т3	06/11/11	1001	44"	25-1	4,01	644	/	0.20		
t D	T4	oldulli	1003	41"	25-0	4-62	614		0 25		
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Ie	T2	6/12/11	0930	54"	24.2	3.42	576		0.50		
y N	Т3										
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er	T1										
Vat	T2	1 1									
>	Т3	6/13/11	0936	44	24,1	1.87	612		0,50		
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Appendix B2: Water Quality Measurement Datasheets	T1			THE CONTROL OF THE CO		***************************************	ACCOUNTS OF STREET	SITE STATES STAT			
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Site: T# - Tank #; R - River

Coast Guard	/SAIC Entrainment an	d Survival of Asian Carp in Ballast Tanks - W	ATER QUALITY Datas	sheet	Sheet #: 2
Survey #: _	1- tun	Survey Start Date: 6 11 \ \	Location:	Pekin.	· · · · · · · · · · · · · · · · · · ·

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T4		0906	TANK	22.3	2.55	628		. 25
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Т3	06/18/11	10:32	.48	72.7	4.87	552	0,50			
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R	06/18/11	10:25	Surf	F,66	5.42	537	0.50			
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T4	06/24/11	11:25	48	22.60	1.15	7.0	0,25	
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Site: T# - Tank #; R - River

Appendix B3: Trial 1. Asian carp entrainment/leakage (Task 3.4) laboratory datasheets

		Coas	st Guard/s	SAIC Entrai	nment a	nd Surviva	of Asia	ın Carp	Survival	- FIELD/L	.AB Datash	eet	
	ırvey #				Surve	y Start Da	e: <u>6</u> `	(1.1)		_	Sheet #	:2	25
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		Task	: <u>P1</u>		الكاري B - Balla)_	ໜີ່ປິ່ງໄດ້ est Tank Wate	ი ე (გ.(r; P# - Pu	∬ ∐ mp RUN	Number [1	or 2]; C# - C	age Number [1-21])(-COMMON
	If	Ballast o	r Pump th	en Volume					Ta	sk #:	50	AK 17mg	<u> 8t</u>
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<u>Via</u> Tank		mation Task	Egg / Larv.	Life Stage #	Cond.		Vi:	I Infor	nation Task	Egg / Larv.	Life Stage #	Cond.	
(T1-T4)	(F1-F2)	(B, P#, C#)	(E or L)	(1-48)	(A/D)	Count		(F1-F2)		(E or L)	(1-48)	(A/D)	Count
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(T1-T4)	(F1-F2)	(B, P#, C#)	(E or L)	(1-48)	(A/D)	Count	1	(T1-T4)	(F1-F2)	(B, P#, C#)	(E or L)	(1-48)	(A/D)	Count
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7/10/15

Coast Guard/SAIC Entrainment and Survival of Asian Carp Survival - FIELD/LAB Datasheet Survey Start Date: 44 PEKIN Location: FIELD DATA Tank # (1-4): 1200 6/12/11 Fill # for Tank (1-2): 1200 6/12/11 Task: (B - Ballast Tank Water; P# - Pump RUN Number [1 or 2]; C# - Cage Number [1-21]) If Ballast or Pump then Volume: _____ Task #: ______

If Cage then (# Eggs Inserted): _____ (# Larvae Inserted): _____ <u>DEAD</u> <u>ALIVE</u> DEAD **ALIVE** Number of LARVAE: ____ \varnothing Number of EGGS: LABIDATA Life Vial Information Egg / Vial Information Egg / Life Tank Fill Task Larv. Stage # Cond. Tank Fill Task Stage # Cond. Larv. (T1-T4) (F1-F2) (B, P#, C#) (E or L) (1-48)(A/D) Count (T1-T4) (F1-F2) (B, P#, C#) (1-48)(A/D) Count (E or L) \Diamond NO FISH 1413 Review By / Date: 8/16/11
Entered By / Date: 8/106-(8-1/ **NOTES**



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Appendix B4: Trial 1. Asian carp survival (Task 3.5) laboratory datasheets – in tank cages Coast Guard/SAIC Entrainment and Survival of Asian Carp Survival - FIFL D/LAB Datasheet

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Coast Guard/SAIC Entrainment and Survival of Asian Carp Survival - FIELD/LAB Datasheet Survey Start Date: 6112011 Sheet #: 23 PEKIN) Location: FIELD DATA IN-2125 6-11-2011 (108425) Fill # for Tank (1-2): FZ (B - Ballast Tank Water; P# - Pump RUN Number [1 or 2]; C# - Cage Number [1-21]) If Ballast or Pump then Volume: _______ (# Larvae Inserted): Task #: _____ SAK TIME ___ If Cage then (# Eggs Inserted): (# Larvae Inserteu): 616-11 010 (2007 Alvae) DEAD **ALIVE** Number of EGGS: Number of LARVAE: LAB DATA Vial Information Egg / Life Life Vial Information Egg / Tank Fill Task Larv. Stage # Cond. Tank Fill Task Cond. Larv. Stage # (T1-T4) (F1-F2) (B, P#, C#) (1-48) (E or L) (1-48)(A/D) Count (T1-T4) (F1-F2) (B, P#, C#) (E or L) (A/D) Count t1 AC wost SVIJA 8 39,00 NON-AC A AC 3899 4 A 3899 AC L 43 -AC. 1 A 3900 NONAC D **NOTES** Entered By / Date: 8+06-18-11

Coast Guard/SAIC Entrainment and Survival of Asian Carp Survival - FIELD/LAB Datasheet Survey Start Date: 6 (1201) Sheet #: 24 FIELD DATA Tank # (1-4): T 50: 2125(6'(1.201)) (108+R) Fill # for Tank (1-2): F2

Task: B-16 (B - Ballast Tank Water; P# - Pump RUN Number [1 or 2]; C# - Cage Number [1-21]) CF - CONTROL Task #: SOAK TIME If Ballast or Pump then Volume: ___ (# Larvae Inserted): 30 If Cage then (# Eggs Inserted): 616-2011 - 0910 ATI WINE ALIVE DEAD **ALIVE** Number of EGGS: Number of LARVAE: LAB DATA **Vial Information** Egg / Life Vial Information Life Egg / Tank Fill Task Larv. Stage # Cond. Tank Fill Task Larv. Stage # Cond. (T1-T4) (F<u>1-F2) (B, P#, C#)</u> (T1-T4) (F1-F2) (B, P#, C#) (E or L) (1-48)(A/D) Count (E or L) (1-48)(A/D) Count 3900 .WW.AC A 16 AC 3899 A 3 41 9 AC 43 1 NON AC \mathcal{D} 2 3900 AC 42 D 1 3899 **NOTES** Entered By / Date: SH 76-16-11

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Coast Guard/SAIC Entrainment and Survival of Asian Carp Survival - FIELD/LAB Datasheet Survey Start Date: Survey #: Location: PEKIN FIELD DATA JV 0930 6.1(-1( 72 HOLRS Tank # (1-4): ____ Fill # for Tank (1-2): - ar 0930 6.14.11 Task: 5-2 (B - Ballast Tank Water; P# - Pump RUN Number [1 or 2]; C# - Cage Number [1-21]) (T-0) SOUL TIME If Ballast or Pump then Volume: Task #:_____ If Cage then (# Eggs Inserted): (# Larvae Inserted): **DEAD** <u>DEAD</u> <u>ALIVE</u> <u>ALIVE</u> Lf. Z 30 Number of EGGS: Number of LARVAE: LAB DATA Life Vial Information Egg / Vial Information Egg / Life Tank Fill Task Larv. Stage # Cond. Tank Fill Stage # Task Larv. Cond. (T1-T4) (F1-F2) (1-48) (A/D) Count (T1-T4) (F1-F2) (B, P#, C#) (E or L) (1-48)Count (B, P#, C#) (E or L) (A/D) TUAC L-42 42 AC 3899 A  $\Lambda$ 12 43 12 16 60068 NONAC A UNIT CYPRIMIOS 3 13 DAME (2VIALS) (ATA STOMIDAE 3900 M. 4 V NONAC D DEAD AC MUTICATED SO CANNOT STAGE **NOTES** 



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#### Appendix B5: Trial 1. Asian carp survival (Task 3.5) laboratory datasheets – control cages Coast Guard/SAIC Entrainment and Survival of Asian Carp Survival - FIELD/LAB Datasheet

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Coast Guard/SAIC Entrainment and Survival of Asian Carp Survival - FIELD/LAB Datasheet Survey Start Date: 6.11.11 Sheet #: 37 Survey #: PEKIN Location: FIELD DATA Tank # (1-4): GATROL (72) IN 1000 6.14.11 Fill # for Tank (1-2): F2 Task: C-20 (B - Ballast Tank Water: P#-Pump RUN Number [1 or 2]; C# - Cage Number [1-21]) If Ballast or Pump then Volume: 72 Hove Task #: If Cage then (# Eggs Inserted): (# Larvae Inserted): 6.16.11 - MOST SLAMMIND <u>DEAD</u> **ALIVE** <u>DEAD</u> <u>ALIVE</u> Number of LARVAE: 5 14 Number of EGGS: LAB DATA Life Life Vial Information Egg / Vial Information Egg / Tank | Fill Task Larv. Stage # Cond. Tank Fill Task Larv. Stage # Cond. (T1-T4) (F1-F2) (B, P#, C#) (1-48) (A/D) Count (T1-T4) (F1-F2) (B, P#, C#) (1-48) Count (E or L) (E or L) (A/D) 5 3900 NOT AC D No+ Ad A 3900 2 3899 43 6 44 1 **NOTES** Entered By / Date: SH 68 ( & 1 /

Coast Guard/SAIC Entrainment and Survival of Asian Carp Survival - FIELD/LAB Datasheet Survey Start Date: 612-201 Sheet #: 29 Survey #: Location: Tank # (1-4): CONTROL (118)

Task: CT-7 (B - Ballast Tank Water; P# - Pump RUN Number [1 or 2]; C# - Cage Number [1-21]) If Ballast or Pump then Volume:

If Cage then (# Eggs Inserted):

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Entered By / Date: 8/08/18-11 **NOTES** 



Coast Guard/SAIC Entrainment and Survival of Asian Carp Survival - FIELD/LAB Datasheet Survey Start Date: Survey #: PEKIN Location: FIELD DATA Tank # (1-4): CONTROL (18) IN: 1200 6/12/1011 Fill # for Tank (1-2): (B - Ballast Tank Water; P#- Pump RUN Number [1 or 2]; C# - Cage Number [1-21]) (#Larvae Inserted): If Ballast or Pump then Volume: If Cage then (# Eggs Inserted): 6-16-2011-0930-MOSTLY MINE DEAD DEAD <u>ALIVE</u> **ALIVE** 21 Number of EGGS: Number of LARVAE: LAB DATA Vial Information Egg/ Life Vial Information Egg / Life Tank Fill Task Larv. Stage # Cond. Tank Fill Task Larv. Stage # Cond. (A/D) (T1-T4) (F1-F2) (B, P#, C#) (E or L) (1-48)Count (T1-T4) (F1-F2) (B, P#, C#) (E or L) (1-48)(A/D) Count 3999 AC L Α 10 43 AC L 44 3999 P L A 10 3900 No+ AC 1DM AK 1 3900 1 window NOT STUCK down well Review By / Date: (8 6/18/11 Entered By / Date: ________ O8 - (8-1)

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#### Appendix B6: Trial 2. Asian carp entrainment/leakage (Task 3.4) laboratory datasheets

Coast Guard/SAIC Entrainment and Survival of Asian Carp Survival - FIELD/LAB Datasheet Survey Start Date: 6.18 Survey #: Location: FIELD DATA FLED Tank # (1-4): 71 Task: If Ballast or Pump then Volume: If Cage then (# Eggs Inserted): (# Larvae Inserted): **ALIVE** DEAD DEAD ALIVE Ø. Number of EGGS: Number of LARVAE: LAB DATA Vial Information Egg / Life **Vial Information** Egg / Life Tank Fill Task Larv. Stage # Cond. Tank Fill Task Larv. Stage # Cond. Count (T1-T4) (F1-F2) (1-48)(A/D) (B, P#, C#) (E or L) (T1-T4) (F1-F2) (B, P#, C#) (1-48)(A/D) Count (E or L) 3900 NON AC D Review By / Date: 8/16/1/
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Coast Guard/SAIC Entrainment and Survival of Asian Carp Survival - FIELD/LAB Datasheet Survey Start Date: 6/19/11 FIELD DATA Tank # (1-4): TZ OUT 945 6/24/11 Fill # for Tank (1-2): +2 Task: P2 (B - Ballast Tank Water; P# - Pump RUN Number [1 or 2]; C# - Cage Number [1-21]) If Ballast or Pump then Volume: Task #: _____ If Cage then (# Eggs Inserted): (# Larvae Inserted): **ALIVE** DEAD DEAD **ALIVE** Number of LARVAE: Number of EGGS: LAB DATA Life Vial Information Egg / Vial Information Egg / Life Tank Fill Cond. Task Larv. Stage # Tank Fill Task Larv. Stage # Cond. (T1-T4) (F1-F2) (B, P#, C#) (T1-T4) (F1-F2) (B, P#, C#) (E or L) (1-48)(A/D) Count (E or L) (1-48) (A/D) Count 0 1413 NO LARVAGE Review By / Date: 8/16/1/ **NOTES** Entered By / Date: 87 09 - 17 - 11

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