FDEP Biology Lab-Toxicity Section
Test Instrument Serial Number Page
Method: EPA-821-R-02-014

METER / DEVICE	ID	SOP	Parameter	Method	Benchsheet Code
YSI Model 58 Dissolved Oxygen Meter	90H018262	TA-06.04	Dissolved Oxygen	SM 4500 O G	DO1
Thermoscientific Orion Star A213	SN X49117 Probe: 019059	TA-06.39	Dissolved Oxygen	SM 4500 O G	DO2
Accumet AR-10 pH Meter	93312105	TA-06.23	pH	SM 4500 H+	PH1
Fisherbrand FE150	SN 2753630 Probe: 01X218988 Temp: S35934	TA- 06.37	pH	SM 4500 H+	PH2
Mettler-Toledo SevenMulti Conductivity Meter	SN: 1225117049 Probe: H04257	TA-06.25	Conductivity Salinity	SM 2510 B SM 2520 B	COND1
Traceable Bench Conductivity Meter	SN 170814827	TA-06.36	Conductivity Salinity	SM 2510 B SM 2520 B	COND2
Hach Ammonia Mid-Range Kit for freshwater	Kit Lot # A6070	TA-06.33	Ammonia	SM 4500 NH3	$NH_3$2
Hach Ammonia Kit NI-SA for saltwater	Kit Lot # A6055	TA-06.33	Ammonia	SM 4500 NH3	$NH_3$1
Hach Ammonia Nitrogen Pocket Colorimeter II	Kit Lot # A8051	TA-06.35	Ammonia	SM 4500 NH3	$NH_3$4
Traceable Thermometer	#15 - SN 210217416	TA-06.13	Temperature	SM-2530B modified & DEP SOP-001/01 FT1400	#15
Traceable Thermometer	#16- SN 210217465	TA-06.13	Temperature	SM-2530B modified & DEP SOP-001/01 FT1400	#16
Traceable Thermometer	#17- SN 210790518	TA-06.13	Temperature	SM-2530B modified & DEP SOP-001/01 FT1400	#17
Hach Chlorine Pocket Colorimeter II	#2-05050C026378	TA-06.22	Total Residual Chlorine	EPA 330.5 SM 4500 CL G	#2
Alkalinity (Hach Kit)	No SN	TA-06.08	Alkalinity	SM 2320 B	ALK1
Hardness (Hach Kit)	No SN	TA-06.08	Hardness	SM 2340 C	HARD1
Mettler Toledo XA105	B314195659	BB-36	Weight	-	BAL1
Mettler Toledo MS403TS/00	B815673069	TA-06.34	Weight	-	BAL3
S-Weights	BIO-S-WEIGHTS-01	NA	Balance check	-	S01

SM-2503B modified to allow use of electrionic and non-mercury filled thermometers.
Insert other device information in blank spaces as needed.

FDEP Biology Laboratory-Toxicity Section
Chronic PT Bench Sheet

Method: EPA-821-R-02-014

Start Date: _____ Time: _____
End Date: _____ Time: _____

Test Type
Definitive
Static

Organism: *A. bahia* (SOP: TA-07.15, Method: 1007.0)

PT Sample ID:_____
Chamber Size 500 mL
Test Volume 250 mL

Light Intensity: 50-100 ft candles (recommended)
Photoperiod:16 hr light, 8 hr dark (recommended)

Diluent	Batch #/LIMS ID #	Days Used

Organism Age: _____
Batch #: _____

Feeding Times	
First	Second
Day 0 * _____	Day 0_____
Day 1 _____	Day 1 _____
Day 2 _____	Day 2 _____
Day 3 _____	Day 3 _____
Day 4 _____	Day 4 _____
Day 5 _____	Day 5 _____
Day 6 _____	Day 6 _____

*** Day 0 first feeding is 2 hours prior to test intiation.**

Artemia Batch #'s
Day 0 _____
Day 1 _____
Day 2 _____
Day 3 _____
Day 4 _____
Day 5 _____
Day 6 _____
Artemia Lot # _____

Stats run by/Date: _____
Stats verified by/Date: _____

Results	
Control % CV(%):	
Dunnetts PMSD(%):	
ICP25(%):	
Reproduction NOEC(%):	
Reproduction LOEC(%):	
Survival NOEC(%):	
Survival LOEC(%):	

Randomizer #_____

LIMS upload:_____ Verified by:_____

Test Validation		
Control Survival ≥ 80%:	Yes	No
Temperature Range ≤ 3° C:	Yes	No

REVIEWER:_____

Comments:

FDEP Biology Laboratory-Toxicity Section
PT Water Quality Information Sheet

Method: EPA-821-R-02-012

Water Quality Parameters	ASW LIMS ID # _____ Batch # _____	ASW LIMS ID # _____ Batch # _____	Method	SOP	Measured By:	Transcription Checked by:
Lab Total Residual Cl_2 (mg/L)			HACH	TA-06.22		
Alkalinity (mg/L as $CaCO_3$)			HACH	TA-06.08		
Total Ammonia (mg/L as N)			HACH	TA-06.35 or TA-06.33		
Conductivity (mmhos)			FISHER	TA-06.36		
Salinity (ppt)			FISHER	TA-06.36		
Days Used						

Temperature Range (°C)
Incubator #_____ **Min._____ Max._____**
Test **Min._____ Max._____**
Room B246 **Min._____ Max._____**

Comments:

FDEP Biology Laboratory-Toxicity Section
Chronic *A. bahia* PT Survival Page

Conc. (%)	Rep.	TEST DAY 0	1	2	3	4	5	6	7
Control	A	5							
	B	5							
	C	5							
	D	5							
	E	5							
	F	5							
	G	5							
	H	5							
6.25%	A	5							
	B	5							
	C	5							
	D	5							
	E	5							
	F	5							
	G	5							
	H	5							
12.5%	A	5							
	B	5							
	C	5							
	D	5							
	E	5							
	F	5							
	G	5							
	H	5							
25%	A	5							
	B	5							
	C	5							
	D	5							
	E	5							
	F	5							
	G	5							
	H	5							
Checked by:									
Concentrations prepared by:									

Conc. (%)	Rep.	TEST DAY 0	1	2	3	4	5	6	7
50%	A	5							
	B	5							
	C	5							
	D	5							
	E	5							
	F	5							
	G	5							
	H	5							
100%	A	5							
	B	5							
	C	5							
	D	5							
	E	5							
	F	5							
	G	5							
	H	5							
Checked by:									
Concentrations prepared by:									

Loaded by (0 hr): _____

Verified by (0 hr): _____

Concentrations prepared by (0 hr): _____

Chamber Letter: _____

hr= hour

M= missing

D= dead

Conc.= Concentration

Comments:

FDEP Biology Laboratory-Toxicity Section
Chronic *A. bahia* PT Parameters Benchsheet

Concentration: % EPA 821-R-02-014 Method 1007.0 **Rep = replicate** **Cond = conductivity**

		Before Renewal						After Renewal					
Test Day	**Concentration**	**Test Rep**	**pH** (SU)	**Temp** (°C)	**DO** (mg/L)	**Cond** (mmhos-cm)	**Salinity** (ppth)	**Test Rep**	**pH** (SU)	**Temp** (°C)	**DO** (mg/L)	**Cond** (mmhos-cm)	**Salinity** (ppth)
Day 0	**Control**												
	Measured by:												
	Recorded by:												
Day 1	**Concentration**	**Rep**	**pH**	**Temp**	**DO**	**Cond**	**Salinity**	**Rep**	**pH**	**Temp**	**DO**	**Cond**	**Salinity**
	Control												
	Measured by:												
	Recorded by:												
Day 2	**Concentration**	**Rep**	**pH**	**Temp**	**DO**	**Cond**	**Salinity**	**Rep**	**pH**	**Temp**	**DO**	**Cond**	**Salinity**
	Control												
	Measured by:												
	Recorded by:												
Day 3	**Concentration**	**Rep**	**pH**	**Temp**	**DO**	**Cond**	**Salinity**	**Rep**	**pH**	**Temp**	**DO**	**Cond**	**Salinity**
	Control												
	Measured by:												
	Recorded by:												

Comments:

FDEP Biology Laboratory-Toxicity Section
Chronic *A. bahia* PT Parameters Benchsheet

Concentration: % EPA 821-R-02-014 Method 1007.0 **Rep = replicate** **Cond = conductivity**

		Before Renewal						After Renewal					
Test Day	**Concentration**	**Test Rep**	**pH** (SU)	**Temp** (°C)	**DO** (mg/L)	**Cond** (mmhos-cm)	**Salinity** (ppth)	**Test Rep**	**pH** (SU)	**Temp** (°C)	**DO** (mg/L)	**Cond** (mmhos-cm)	**Salinity** (ppth)
Day 4	**Control**												
	Measured by:												
	Recorded by:												
Day 5	**Concentration**	**Rep**	**pH**	**Temp**	**DO**	**Cond**	**Salinity**	**Rep**	**pH**	**Temp**	**DO**	**Cond**	**Salinity**
	Control												
	Measured by:												
	Recorded by:												
Day 6	**Concentration**	**Rep**	**pH**	**Temp**	**DO**	**Cond**	**Salinity**	**Rep**	**pH**	**Temp**	**DO**	**Cond**	**Salinity**
	Control												
	Measured by:												
	Recorded by:												
Day 7	**Concentration**	**Rep**	**pH**	**Temp**	**DO**	**Cond**	**Salinity**	**Rep**	**pH**	**Temp**	**DO**	**Cond**	**Salinity**
	Control												
	Measured by:												
	Recorded by:												

Comments:

FDEP Biology Laboratory-Toxicity Section
Chronic *A. bahia* PT Weighing Benchsheet

Mean wt.=Mysid wt. divided by 5

Concentration (g/L)	Replicate	Pan #*	Pan wt. (g)	Pan + mysid wt. (g)	Mysid wt. (g)	Original # mysids	Mean wt. (mg)	Mean wt./ Concentration (mg)
Control	A					5		
	B					5		
	C					5		
	D					5		
	E					5		
	F					5		
	G					5		
	H					5		
	A					5		
	B					5		
	C					5		
	D					5		
	E					5		
	F					5		
	G					5		
	H					5		
	A					5		
	B					5		
	C					5		
	D					5		
	E					5		
	F					5		
	G					5		
	H					5		
Weighed by initials:								

* Note: Pan number refers to actual replicate # wt. = Weight

Comments:

FDEP Biology Laboratory-Toxicity Section
Chronic *A. bahia* PT Weighing Benchsheet

Mean wt.=Mysid wt. divided by 5

Concentration (g/L)	Replicate	Pan #*	Pan wt. (g)	Pan + mysid wt. (g)	Mysid wt. (g)	Original # mysids	Mean wt. (mg)	Mean wt./ Concentration (mg)
	A					5		
	B					5		
	C					5		
	D					5		
	E					5		
	F					5		
	G					5		
	H					5		
	A					5		
	B					5		
	C					5		
	D					5		
	E					5		
	F					5		
	G					5		
	H					5		
	A					5		
	B					5		
	C					5		
	D					5		
	E					5		
	F					5		
	G					5		
	H					5		
Weighed by initials:								

* Note: Pan number refers to actual replicate # wt. = Weight

Comments:

FDEP Biology Laboratory-Toxicity Section
A. bahia Chronic PT
Weight Quality Control

EPA 821-R-02-014 Method 1007.0

Empty Pan Weights **Date: _____ By:_____**

Weights in grams	Pan 1 wt.	Pan 1 initial wt.
after Pan 5	@	
after Pan 10	@	
after Pan 15	@	
after Pan 20	@	
after Pan 25	@	
after Pan 30	@	
after Pan 35	@	
after Pan 40	@	
after Pan 45	@	
after Pan 48	@	

	Measured Value (g)	Class 1 Weight Value (g)
Class 1 weights	@	
	@	

S-Weights: BIO-S-WEIGHTS-01
Balance: Mettler Toledo XA105
Ser# B314195659

Mysid + Pan Weights **Date: _____ By:_____**

Weights in grams	Pan 1 wt.	Pan 1 initial wt.
after Pan 5	@	
after Pan 10	@	
after Pan 15	@	
after Pan 20	@	
after Pan 25	@	
after Pan 30	@	
after Pan 35	@	
after Pan 40	@	
after Pan 45	@	
after Pan 48	@	

Note: Pan number (5, 10, etc.) refers to sequence of weighing as actual Pan #s may differ.

	Measured Value (g)	Class 1 Weight Value (g)
Class 1 weights	@	
	@	

Drying Oven ID:_____
Temperature °C:_____
Drying Hours:_____
Date/Time Organisms in oven:_____
Date/Time Organisms out of oven:_____

Comments:

FDEP Biology Laboratory-Toxicity Section
Chronic PT Instrument Code Page

Test ID: **Dates:**

METER / DEVICE	Instrument Code
DO Meter	
pH Meter	
Conductivity Meter	
Ammonia Kit	
Traceable Thermometer	
Chlorine Kit	
Alkalinity Kit	
Hardness Kit	
Balances used	
Weights used	
Entered by and date:	