

TOXICITY TESTING RESULTS

**LOTT CLEAN WATER ALLIANCE
OLYMPIA, WASHINGTON**

WHOLE EFFLUENT TOXICITY TESTING: JUNE 2026

Prepared for

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All testing reported herein was performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and Spheros Environmental is not responsible for use of less than the complete report. The test results summarized in this report apply only to the sample(s) evaluated. This document is uncontrolled when printed or accessed from electronic distribution.

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ACRONYMS AND ABBREVIATIONS

ABS	Aquatic BioSystems, Inc.
ACEC	Acute Critical Effluent Concentration
CCEC	Chronic Critical Effluent Concentration
EPA	Environmental Protection Agency
EC ₂₅ /IC ₂₅	Effect/Inhibition Concentration to 25% of test population
LOEL	Lowest Observed Effect Level
mg/L	Milligrams per Liter
NOEL	No Observed Effect Level
NPDES	National Pollutant Discharge Elimination System
QM	Quality Manual
SOP	Standard Operating Practices
WDOE	Washington Department of Ecology
WET	Whole Effluent Toxicity
WWTP	Wastewater Treatment Plant

1. EXECUTIVE SUMMARY

Spheros Environmental (Spheros) conducted Whole Effluent Toxicity (WET) testing on effluent samples collected by LOTT Clean Water Alliance personnel as part of the effluent characterization. The objective of this program was to assess the potential toxicity of primary discharge water to selected aquatic organisms following procedures defined under the facility's National Pollutant Discharge Elimination System (NPDES) permit. The results of the biological testing are contained in this report.

Statistically significant biological response of the test organisms was not detected at or below the acute critical effluent concentration (ACEC) of 2.8% or the chronic critical effluent concentration (CCEC) of 2.0% for the chronic test endpoints. The chronic endpoints tested are summarized in Table 1-1. The effluent samples do not exceed the defined permit requirements for the chronic test endpoints. (Table 1-2).

Table 1-1. Toxicity Test Results Summary.

Test		NOEL (%)	LOEL (%)	EC ₂₅ /IC ₂₅ (%)
Chronic	<i>Atherinops affinis</i> 7-Day Survival	100	>100	>100
	<i>Atherinops affinis</i> 7-Day Biomass	100	>100	>100
	<i>Americamysis bahia</i> 7-Day Survival	100	>100	>100
	<i>Americamysis bahia</i> 7-Day Biomass	100	>100	>100

NOEL = No Observed Effect Level

LOEL = Lowest Observed Effect Level

EC₂₅/IC₂₅ = Effect/ Inhibition Concentration to 25% of test population

Table 1-2. Permit Compliance Results.

Permit Requirement	<i>The Permittee must:</i> <i>Conduct chronic toxicity testing on the final effluent annually. Conduct chronic toxicity testing during effluent characterization on a series of at least five concentrations of effluent and a control. This series of dilutions must include the acute critical effluent concentration (ACEC). The ACEC equals 2.8 percent effluent. The series of dilutions should also contain the CCEC of 2.0 percent effluent. Compare the ACEC to the control using hypothesis testing at the 0.05 level of significance.</i>
Result	No statistically significant biological effects were detected at or below the acute critical effluent concentration (ACEC) of 2.8% effluent or the chronic critical effluent concentration (CCEC) of 2.0% effluent for both chronic tests.

2. METHODS

The samples were analyzed for toxicity using criteria outlined in the Washington Department of Ecology's (WDOE) Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria (WDOE WQ-R-95-80). These criteria are further defined through the Environmental Protection Agency's (EPA) most recently promulgated effluent guidance documents outlined in Section 4.

2.1 Bioassay Testing

Bioassay testing for this project consisted of two chronic bioassays. The tests conducted in support of this project are summarized in Table 2-1.

Table 2-1. Biological Testing Performed

Test Type	Test Descriptor	Species	Method
Chronic	7-Day Survival and Growth	<i>Atherinops affinis</i> (Topsmelt)	WDOE WQ-R-95-80; EPA 600/R-95/136; Test Method 1006.0; SOP TOX002.10
Chronic	7-Day Survival and Growth	<i>Americamysis bahia</i> (Opossum Shrimp)	WDOE WQ-R-95-80; EPA-821-R-02-014; Test Method 1007.0; SOP TOX014.13

2.2 Sample Collection and Storage

LOTT Clean Water Alliance personnel collected composite samples on June 10, 11, and 15, 2026. The samples were delivered by overnight courier and received at the Spheros Port Gamble laboratory on the day following collection. Temperatures upon receipt were within the recommended temperature range of 0 – 6°C. Additional sample conditions are summarized in Table 2-2. The samples were held in a walk-in cold room at 4 ± 2 °C in the dark until utilized for testing.

Table 2-2. Sample Conditions upon Receipt

Sample	Final Effluent #1, Final Effluent #2, Final Effluent #3		
Laboratory ID	P260611.02	P260612.02	P260616.02
Date/Time sampled	06/10/26; 0500	06/11/26; 0800	06/15/26; 0710
Date/Time received	06/11/26; 1200	06/12/26; 1250	06/16/26; 1310
Dissolved Oxygen (mg/L) Recommended: >4.0 mg/L	10.4	8.9	8.3
Temperature (°C) Recommended: 0 – 6°C	0.2	0.3	0.1
pH (units) Recommended: 6 – 9	7.3	7.3	7.3
Salinity (ppt)	0.169	0.183	0.224
Total Chlorine (mg/L)	<0.02	0.02	0.04
Total Ammonia (mg/L)	<1.0	<1.0	<1.0

2.3 Water for Bioassay Testing

Seawater diluent used in this study came from the northern Hood Canal at Port Gamble, Washington. Extensive testing on a variety of test species has shown that there is no significant potential for toxicity or bioaccumulation of contaminants from this water supply. Chemical analysis of this water source is conducted and reviewed on an annual basis.

2.4 Sample Adjustment

Salinity adjustments were necessary to bring the samples within the recommended test salinity for each marine test species (30 ± 2 ppt) using Crystal Sea® MarineMix bioassay grade artificial salt.

An artificial salt control sample was created to evaluate any potential negative impacts to the test organisms from the salinity adjustment alone. This sample was designated “Salt Control”, and the results are discussed in Section 3.

2.5 Data Management and Analysis

Endpoint data was calculated for each replicate, and the mean value and standard deviation were determined for each sample concentration. All hand-entered data was reviewed for data entry errors, which were corrected prior to summary calculations. A minimum of 10% of all calculations and data sorting was reviewed for errors. Review counts were conducted on any apparent outliers.

Statistical comparisons were made according to the EPA guidance (EPA 2002). Statistical comparisons were performed using CETIS™ software.

2.6 Quality Assurance/Quality Control

The quality assurance objectives for toxicity testing conducted by the testing laboratory are detailed in the method specific guidance documents and the laboratory’s quality manual (QM). These objectives for accuracy and precision involve all aspects of the testing process, including the following:

- Source and Condition of Test Organisms
- Condition of Equipment
- Test Conditions
- Instrument Calibration
- Use of Reference Toxicants
- Record Keeping
- Data Evaluation

Each batch of test organisms obtained were evaluated in a reference toxicant test that was run concurrently with the test period to establish the sensitivity of the test organisms. The reference toxicant LC₅₀ or EC₅₀ should fall within two standard deviations of the historical laboratory mean. Water quality measurements were monitored to ensure that they fell within prescribed limits.

The methods employed in every phase of the toxicity testing program are detailed in the Spheros Standard Operating Practices (SOP). All Spheros staff members receive regular, documented training in all SOPs and test methods. Finally, all data collected and produced as a result of these analyses were recorded on approved data sheets. If an aspect of a test deviated from protocol, the test was evaluated to determine whether it was valid according to the regulatory agencies responsible for approval of the proposed permitting action.

3. RESULTS

The results of the effluent testing are presented in this section. Statistical comparisons and laboratory documents are provided in Appendix A. Chain-of-custody and sample receipt logs are provided in Appendix B.

3.1 Topsmelt (*Atherinops affinis*) Chronic Test Results

The chronic toxicity test with *A. affinis* was initiated on June 11, 2026. The test met the test acceptability criteria listed in Table 3-3. Mean survival and growth endpoints are summarized in Table 3-1. The statistical results are summarized in Table 3-2 and the test conditions are summarized in Table 3-3.

On Day 1, a test organism was accidentally killed in Replicate 2 of the 2.8% test concentration. The statistical analysis was adjusted to account for the accidental loss.

On Day 4, the dissolved oxygen (DO) fell below the recommended range of 4.0 mg/L. The test was aerated after the renewal was performed and the DO remained above 4.0 mg/L for the remainder of the test. Other than noted, water quality parameters were within the acceptable limits throughout the duration of the 7-day static-renewal test.

No significant differences were observed between the laboratory control and the salt control for any of the biological endpoints tested. This indicates that artificial salts should not have contributed significantly to any negative biological effects, if observed.

The reference toxicant test results were within two standard deviations of the laboratory mean for both endpoints (Table 3-3). This indicates that the organisms obtained from this supplier were of similar sensitivity to those previously tested at the Spheros laboratory.

Table 3-1. Endpoint Summary for the *Atherinops affinis* Chronic Test

Conc. (%)	Final Effluent #1, Final Effluent #2, Final Effluent #3		
	Mean Survival (%)	Mean Dry Weight (mg) ¹	Mean Biomass (mg) ²
Control (0)	100	1.864	1.864
Salt Control	100	1.780	1.780
2.0 ³	100	1.902	1.902
2.8 ⁴	100	1.733	1.733
10	100	1.752	1.752
30	100	1.872	1.872
100	100	1.812	1.812

¹ Average weight (mg) per survivor.

² Average weight (mg) per original number of animals stocked (Biomass).

³ Chronic Critical Effluent Concentration (CCEC).

⁴ Acute Critical Effluent Concentration (ACEC).

Table 3-2. Statistical Results Summary for *Atherinops affinis* Chronic Test

Endpoint	Final Effluent #1, Final Effluent #2, Final Effluent #3		
	Survival	Dry Weight	Biomass
NOEL (%)	100	100	100
LOEL (%)	>100	>100	>100
EC ₂₅ / IC ₂₅ (%)	>100	>100	>100
95% Confidence Limits	NA	NA	NA

NA = Not Applicable

3.1.1 Topsmelt (*Atherinops affinis*) Permit Compliance

From the NPDES permit: Compare the ACEC to the control using hypothesis testing at the 0.05 level of significance. The ACEC equals 2.8%.

- No statistically significant difference between the lab control and 2.8% effluent was shown for the chronic endpoints, which meets permit requirements.

Table 3-3. Test Condition Summary for *Atherinops affinis* Chronic Test

Test Duration / Type		7-Day / Static-Renewal
Species		<i>Atherinops affinis</i>
Supplier		Aquatic Bio Systems, Inc.
Date acquired		06/11/26
Test Dates		06/11/26 – 06/18/26
Age at test initiation (Recommended: 9-15 days)		13 Days
Samples used:		P260611.02, P260612.02, P260616.02
Sample Holding Time at Initiation: Recommended: <36 hours		35 hours
Test Procedures		WDOE WQ-R-95-80; EPA 600/R-95/136; Test Method 1006.0; SOP TOX002.10
Test location		Spheros Port Gamble, WA
Control water / Diluent		0.45 µm-filtered, North Hood Canal seawater
Test Lighting		16-hour light / 8-hour dark
Test Chamber		20 oz. cup
Exposure volume		250 mL
Replicates/treatment		5
Concentration/treatment		2.0, 2.8, 10, 30 and 100%
Organisms/replicate		5
Feeding		250 Artemia nauplii am / 500 pm, except Day 7
Test solution renewal		Daily (Days 1-6)
Test Dissolved Oxygen Recommended: > 4.0 mg/L		3.9 – 8.4 mg/L
Test Temperature Recommended: 20 ± 1°C		18.8 – 21.4 °C
Test Salinity Recommended: 30 ± 2 ppt		30 – 31 ppt
Test pH Recommended: 6 - 9 units		7.4 – 8.2
Quality Assurance		
Control performance standards		100%; meets acceptability criterion
Survival Recommended: ≥ 80%		1.864 mg, meets acceptability criterion
Dry Weight Recommended: ≥ 0.850 mg		
Power Standard: ≤39% (Growth)		-2%; meets criterion
Reference Toxicant		
Reference Toxicant Date		06/11/26
Survival	Reference Toxicant EC ₅₀ (must be < 205 µg/L)	113.2 µg Cu/L
	Laboratory Mean LC ₅₀ ; Range EC ₅₀ (±2 SD)	99.7 µg Cu/L (53.5 – 186 µg Cu/L)
	PMSD (must be <25%)	11.5%
Biomass	Reference Toxicant LC ₅₀	114.5 µg Cu/L
	Laboratory Mean LC ₅₀ ; Range LC ₅₀ (±2 SD)	93.7 µg Cu/L (55.0 – 160 µg Cu/L)
	PMSD (must be <50%)	17.2%
Deviations from Test Protocol		Dissolved oxygen, accidental animal mortality

3.2 Mysid (*Americamysis bahia*) Chronic Test Results

The chronic toxicity test with *A. bahia* was initiated on June 11, 2026. The test met the test acceptability criteria listed in Table 3-6. Mean survival and growth endpoints are summarized in Table 3-4. The statistical results are summarized in Table 3-5 and the test conditions are summarized in Table 3-6.

On Day 1, an extra test organism was observed in Replicate 4 of the 2% test concentration. The statistical analysis was adjusted to account for the extra addition.

Water quality parameters were within the acceptable limits throughout the duration of the 7-day static-renewal test.

The reference toxicant test results were within two standard deviations of the laboratory mean for survival and mean dry biomass (Table 3-6). This indicates that the organisms obtained from this supplier were of similar sensitivity to those previously tested at the Spheros laboratory.

Table 3-4. Endpoint Summary for the *Americamysis bahia* Chronic Test

Conc. (%)	Final Effluent #1, Final Effluent #2, Final Effluent #3		
	Mean Survival (%)	Mean Dry Weight (mg) ¹	Mean Biomass (mg) ²
Control (0)	95.0	0.254	0.240
Salt Control	100	0.263	0.263
2.0 ³	92.5	0.270	0.248
2.8 ⁴	95.0	0.250	0.237
10	97.5	0.242	0.235
30	97.5	0.284	0.276
100	95.0	0.229	0.219

¹ Average weight (mg) per survivor.

² Average weight (mg) per original number of animals stocked (Biomass).

³ Chronic Critical Effluent Concentration (CCEC).

⁴ Acute Critical Effluent Concentration (ACEC).

Table 3-5. Statistical Results Summary for *Americamysis bahia* Chronic Tests

Endpoint	Final Effluent #1, Final Effluent #2, Final Effluent #3		
	Survival	Dry Weight	Biomass
NOEL (%)	100	100	100
LOEL (%)	>100	>100	>100
EC ₂₅ /IC ₂₅ (%)	>100	>100	>100
95% Confidence Limits	NA	NA	NA

NOEL = No Observed Effect Level

LOEL = Lowest Observed Effect Level

EC₂₅/IC₂₅ = Effect/ Inhibition Concentration to 25% of test population

NA = Not Applicable

3.2.1 Mysid (*Americamysis bahia*) Chronic Permit Compliance

From the NPDES permit: Compare the ACEC to the control using hypothesis testing at the 0.05 level of significance. The ACEC equals 2.8%.

- No statistically significant difference between the lab control and 2.8% effluent was shown for the chronic endpoints, which meets permit requirements.

Table 3-6. Test Condition Summary for *Americamysis bahia* Chronic Test

Test Duration / Type		7-Day / Static-Renewal
Species		<i>Americamysis bahia</i>
Supplier		Spheros Florida
Date acquired		06/11/26
Test Dates		06/11/26 – 06/18/26
Age at test initiation (Recommended: 7 days)		7 Days
Samples used:		P260611.02, P260612.02, P260616.02
Sample Holding Time at Initiation: Recommended: <36 hours		35 hours
Test Procedures		WDOE WQ-R-95-80; EPA-821-R-02-014; Test Method 1007.0; SOP TOX014.12
Test location		Spheros; Port Gamble, WA
Control water / Diluent		0.45 µm-filtered, North Hood Canal seawater
Test Lighting		16-hour light / 8-hour dark
Test Chamber		20 oz. cup
Exposure volume		250 mL
Replicates/treatment		8
Concentration/treatment		2.0, 2.8, 10, 30 and 100%
Organisms/replicate		5
Feeding		375 <i>Artemia</i> nauplii twice daily, except Day 7
Test solution renewal		Daily (Days 1-6)
Test Water Quality		
Test Dissolved Oxygen Recommended: > 4.0 mg/L		5.0 – 9.0 mg/L
Test Temperature Recommended: 26 ± 1°C		24.6 – 26.9 °C
Test Salinity Recommended: 30 ± 2 ppt		29 – 31 ppt
Test pH Recommended: 6 - 9 units		7.5 – 8.1
Quality Assurance		
Control performance standards Survival Recommended: ≥ 80% Dry Weight Recommended: ≥ 0.200 mg Power Standard: ≤39% (Dry weight)		95.0%; meets acceptability criterion
		0.254 mg, meets acceptability criterion
		-6%; meets criterion
Reference Toxicant		
Reference Toxicant Test Start Date		06/11/26
Survival	Reference Toxicant LC ₅₀	121.2 µg Cu/L
	Laboratory Mean LC ₅₀ ; Range LC ₅₀ (±2 SD)	219.9 µg Cu/L (132 – 366 µg Cu/L)
	PMSD (must be <25%)	10.8%
Biomass	Reference Toxicant EC ₅₀	110.1 µg Cu/L
	Laboratory Mean EC ₅₀ ; Range LC ₅₀ (±2 SD)	188.9 µg Cu/L (126 – 283 µg Cu/L)
	PMSD (must be <50%)	14.7%
Deviations from Test Protocol		Test organisms start count

4. REFERENCES

- CETIS. 2022. CETIS™ Comprehensive Environmental Toxicity Information System User's Guide. Tidepool Scientific Software. McKinleyville, CA.
- USEPA. 1995. Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms, First Edition. EPA/600/R-95-136.
- USEPA. 2002. Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine Organisms, Third Edition. EPA-821-R-02-014.
- WDOE. 2016. Laboratory Guidance and Whole Effluent Toxicity Test Review Criteria. Washington State Department of Ecology. Water Quality Program. Publication number: WQ-R-95-80, Revised June 2016.

APPENDIX A

LABORATORY DOCUMENTS

ERROR CODES FOR DATASHEETS

CA	Called away; task completed by another tech
DC	Test solution too turbid or too dark to count organisms
FB	Found body – animal found that was previously noted as missing
IE	Incorrect Entry
IW	Illegible writing
MC	Miscount
MR	Meter reading changed; Meter no ready
NB	No body (no organism found)
SM	Stray Mark
WC	Wrong Cell (incorrect data box used)
WD	Wrong Date (incorrect date entered)
WN	Wrong number (incorrect number entered)
WP	Wrong page (incorrect data sheet)
WT	Wrong Time (incorrect time entered)

APPENDIX A1.1

***ATHERINOPS AFFINIS* (TOPSMELT) 7-DAY SURVIVAL AND GROWTH TEST**

STATISTICAL COMPARISONS AND LABORATORY DATA SHEETS

CETIS Summary Report

Report Date: 02 Jul-26 08:52 (p 1 of 3)
Test Code/ID: P260611.02AA / 09-9379-3791

Pacific Topsmelt 7-d Survival and Growth Test				Spheros Environmental	
Batch ID:	10-8457-9042	Test Type:	Growth-Survival (7d)	Analyst:	Michelle Bennett
Start Date:	11 Jun-26 15:31	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater
Ending Date:	18 Jun-26 10:21	Species:	Atherinops affinis	Brine:	
Test Length:	6d 19h	Taxon:	Actinopterygii	Source:	Aquatic Biosystems, CO
				Age:	13D
Sample ID:	02-8619-6450	Code:	P260611.02	Project:	LOTT WET 2026
Sample Date:	10 Jun-26 05:00	Material:	Effluent Sample	Source:	LOTT Clean Water Alliance (WA00370)
Receipt Date:	11 Jun-26 12:00	CAS (PC):		Station:	Final Effluent #1
Sample Age:	35h (0.2 °C)	Client:	LOTT		

Single Comparison Summary				
Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result
11-1104-0834	7d Proportion Survived	Wilcoxon Rank Sum Two-Sample Test	1.0000	Salt Control passed 7d proportion survived
08-4484-6815	Mean Dry Biomass-mg	Equal Variance t Two-Sample Test	0.3353	Salt Control passed mean dry biomass-mg
19-6808-3874	Mean Dry Weight-mg	Equal Variance t Two-Sample Test	0.3353	Salt Control passed mean dry weight-mg

Multiple Comparison Summary							
Analysis ID	Endpoint	Comparison Method	NOEL	LOEL	TOEL	PMSD	TU
05-1849-9180	7d Proportion Survived	Steel Many-One Rank Sum Test	100	>100	---	5.33%	1
06-7275-6813	Mean Dry Biomass-mg	Dunnett Multiple Comparison Test	100	>100	---	15.2%	1
03-0844-5619	Mean Dry Weight-mg	Dunnett Multiple Comparison Test	100	>100	---	15.2%	1

Point Estimate Summary							
Analysis ID	Endpoint	Point Estimate Method	Level	%	95% LCL	95% UCL	TU
14-0502-7066	7d Proportion Survived	Linear Interpolation (ICPIN)	EC25	>100	---	---	<1
19-1310-9543	Mean Dry Biomass-mg	Linear Interpolation (ICPIN)	IC25	>100	---	---	<1
00-2764-6014	Mean Dry Weight-mg	Linear Interpolation (ICPIN)	IC25	>100	---	---	<1

Test Acceptability							
Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
05-1849-9180	7d Proportion Survived	Control Resp	1	0.8	>>	Yes	Passes Criteria
11-1104-0834	7d Proportion Survived	Control Resp	1	0.8	>>	Yes	Passes Criteria
14-0502-7066	7d Proportion Survived	Control Resp	1	0.8	>>	Yes	Passes Criteria
06-7275-6813	Mean Dry Biomass-mg	Control Resp	1.864	0.85	>>	Yes	Passes Criteria
08-4484-6815	Mean Dry Biomass-mg	Control Resp	1.864	0.85	>>	Yes	Passes Criteria
19-1310-9543	Mean Dry Biomass-mg	Control Resp	1.864	0.85	>>	Yes	Passes Criteria
05-1849-9180	7d Proportion Survived	PMSD	0.05328	<<	0.25	Yes	Passes Criteria
06-7275-6813	Mean Dry Biomass-mg	PMSD	0.1523	<<	0.5	Yes	Passes Criteria
08-4484-6815	Mean Dry Biomass-mg	PMSD	0.188	<<	0.5	Yes	Passes Criteria

CETIS Summary Report

Report Date: 02 Jul-26 08:52 (p 2 of 3)
Test Code/ID: P260611.02AA / 09-9379-3791

Pacific Topsmelt 7-d Survival and Growth Test

Spheros Environmental

7d Proportion Survived Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
0	SC	5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
2		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
2.8		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
10		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
30		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
100		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%

Mean Dry Biomass-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	5	1.864	1.454	2.273	1.346	2.188	0.1475	0.3298	17.69%	0.00%
0	SC	5	1.78	1.455	2.106	1.606	2.236	0.1173	0.2623	14.73%	4.46%
2		5	1.902	1.718	2.087	1.722	2.076	0.06651	0.1487	7.82%	-2.08%
2.8		5	1.733	1.607	1.859	1.57	1.83	0.04542	0.1016	5.86%	7.00%
10		5	1.752	1.65	1.853	1.638	1.842	0.03666	0.08197	4.68%	6.01%
30		5	1.872	1.625	2.119	1.666	2.124	0.08905	0.1991	10.64%	-0.45%
100		5	1.812	1.601	2.024	1.652	2.098	0.07621	0.1704	9.40%	2.75%

Mean Dry Weight-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	5	1.864	1.454	2.273	1.346	2.188	0.1475	0.3298	17.69%	0.00%
0	SC	5	1.78	1.455	2.106	1.606	2.236	0.1173	0.2623	14.73%	4.46%
2		5	1.902	1.718	2.087	1.722	2.076	0.06651	0.1487	7.82%	-2.08%
2.8		5	1.733	1.607	1.859	1.57	1.83	0.04542	0.1016	5.86%	7.00%
10		5	1.752	1.65	1.853	1.638	1.842	0.03666	0.08197	4.68%	6.01%
30		5	1.872	1.625	2.119	1.666	2.124	0.08905	0.1991	10.64%	-0.45%
100		5	1.812	1.601	2.024	1.652	2.098	0.07621	0.1704	9.40%	2.75%

CETIS Summary Report

Report Date: 02 Jul-26 08:52 (p 3 of 3)
 Test Code/ID: P260611.02AA / 09-9379-3791

Pacific Topsmelt 7-d Survival and Growth Test

Spheros Environmental

7d Proportion Survived Detail

MD5: 17FCC5357B663E9D66120294A6E0C2E3

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	D	1.0000	1.0000	1.0000	1.0000	1.0000
0	SC	1.0000	1.0000	1.0000	1.0000	1.0000
2		1.0000	1.0000	1.0000	1.0000	1.0000
2.8		1.0000	1.0000	1.0000	1.0000	1.0000
10		1.0000	1.0000	1.0000	1.0000	1.0000
30		1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000

Mean Dry Biomass-mg Detail

MD5: 54F3B08C4C41481DC4A51C926BDEC809

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	D	2.064	2.188	1.346	1.964	1.756
0	SC	1.606	1.668	1.624	2.236	1.768
2		1.892	2.024	2.076	1.722	1.798
2.8		1.83	1.57	1.804	1.72	1.742
10		1.706	1.638	1.842	1.76	1.812
30		2.036	1.81	1.724	2.124	1.666
100		2.098	1.652	1.722	1.788	1.802

Mean Dry Weight-mg Detail

MD5: 54F3B08C4C41481DC4A51C926BDEC809

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	D	2.064	2.188	1.346	1.964	1.756
0	SC	1.606	1.668	1.624	2.236	1.768
2		1.892	2.024	2.076	1.722	1.798
2.8		1.83	1.57	1.804	1.72	1.742
10		1.706	1.638	1.842	1.76	1.812
30		2.036	1.81	1.724	2.124	1.666
100		2.098	1.652	1.722	1.788	1.802

7d Proportion Survived Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	D	5/5	5/5	5/5	5/5	5/5
0	SC	5/5	5/5	5/5	5/5	5/5
2		5/5	5/5	5/5	5/5	5/5
2.8		5/5	4/4	5/5	5/5	5/5
10		5/5	5/5	5/5	5/5	5/5
30		5/5	5/5	5/5	5/5	5/5
100		5/5	5/5	5/5	5/5	5/5

CETIS Test Data Worksheet

Report Date: 02 Jul-26 08:52 (p 1 of 2)
Test Code/ID: P260611.02AA / 09-9379-3791

Pacific Topsmelt 7-d Survival and Growth Test

Spheros Environmental

Start Date: 11 Jun-26 15:31 Species: Atherinops affinis Sample Code: P260611.02
End Date: 18 Jun-26 10:21 Protocol: EPA/600/R-95/136 (1995) Sample Source: LOTT Clean Water Alliance
Sample Date: 10 Jun-26 05:00 Material: Effluent Sample Sample Station: Final Effluent #1

Conc-%	Code	Rep	Pos	# Exposed	1d Survival	2d Survival	3d Survival	4d Survival	5d Survival	6d Survival	7d Survival	Total Weight-mg	Tare Weight-mg	Pan Count	Notes
0	D	1	33	5							5	66.23	55.91	5	
0	D	2	22	5							5	49.09	38.15	5	
0	D	3	28	5							5	42.23	35.5	5	
0	D	4	13	5							5	44.85	35.03	5	
0	D	5	29	5							5	45.95	37.17	5	
0	SC	1	17	5							5	44.57	36.54	5	
0	SC	2	16	5							5	45.32	36.98	5	
0	SC	3	25	5							5	45.18	37.06	5	
0	SC	4	4	5							5	48.91	37.73	5	
0	SC	5	32	5							5	45.33	36.49	5	
2		1	15	5							5	46.46	37	5	
2		2	1	5							5	49.87	39.75	5	
2		3	24	5							5	47.92	37.54	5	
2		4	31	5							5	46.53	37.92	5	
2		5	5	5							5	69.12	60.13	5	
2.8		1	35	5							5	70.99	61.84	5	
2.8		2	7	4							4	65.65	59.37	4	
2.8		3	27	5							5	75.5	66.48	5	
2.8		4	34	5							5	62.28	53.68	5	
2.8		5	6	5							5	45.63	36.92	5	
10		1	12	5							5	69.63	61.1	5	
10		2	11	5							5	73.63	65.44	5	
10		3	10	5							5	70.8	61.59	5	
10		4	8	5							5	48.47	39.67	5	
10		5	20	5							5	65.97	56.91	5	
30		1	23	5							5	66.04	55.86	5	
30		2	26	5							5	47.49	38.44	5	
30		3	3	5							5	47.06	38.44	5	

CETIS Test Data Worksheet

Report Date: 02 Jul-26 08:52 (p 2 of 2)

Test Code/ID: P260611.02AA / 09-9379-3791

Conc-%	Code	Rep	Pos	# Exposed	1d Survival	2d Survival	3d Survival	4d Survival	5d Survival	6d Survival	7d Survival	Total Weight-mg	Tare Weight-mg	Pan Count	Notes
30		4	9	5							5	70.87	60.25	5	
30		5	30	5							5	68.27	59.94	5	
100		1	14	5							5	48.41	37.92	5	
100		2	2	5							5	45.2	36.94	5	
100		3	21	5							5	46.34	37.73	5	
100		4	18	5							5	70.06	61.12	5	
100		5	19	5							5	46.41	37.4	5	

POWER STANDARD CALCULATIONS

Topsmelt Mean Growth (Dry Weight)per Survivor

Chronic Power Standard Calculation

	average growth/survivor					
Replicate	1	2	3	4	5	Mean
CCEC (2.0)	1.892	2.024	2.076	1.722	1.798	1.9024
Control	2.064	2.188	1.346	1.964	1.756	1.8636

Control Mean - CCEC Mean

-0.0388

Difference Divided by Control Mean

-0.02081992

Express as %

-2%

≤39% meets the power standard

Pass

GENERAL

Client	LOTT Water Alliance	
Project	LOTT WET 2026	
Project Number	PG2348	
Project Manager	M. Bennett	Note: input lowest and highest decimal for temp
Date Sample Received	6/11/2026	
Test type	7 Day Chronic Toxicity with Topsmelt	
Matrix	Liquid	
Test Acceptability	≥ 80% average survival in control Average dry weight is > 0.85 mg per surviving fish	
Test Start Date	06/11/26	
Test Species	Atherinops affinis	
Organism Batch	ABS061126.01	
Organism Acquired	6/11/2026	
Organism Acclimation	0	
Organism Age	13 Days	
Test Protocol	TOX 002	
Regional Protocol	WDOE WQ-R-95-80	
Test Location	Bath 11	
Light Intensity	50-100 foot candles	
Light Cycle	16L:8D	
Water Description	0.45 um filtered seawater	
Organisms per Replicate	5	
Test Chamber Size	20 oz.	
Exposure Volume	250 mL	Food Batch ID
Feeding Information	250 nauplii/chamber am 500 nauplii/chamber pm	111935
Test Dissolved Oxygen	≥ 4	
Test Temperature	20 ± 1	CSMM Batch #
Test Salinity	30 ± 2	052626A & 052626B
Test pH	7.5 ± 1.5	

Test Parameters		
	Min	Max
DO	4.0	
Temp	19	21
Salinity	28	32
pH	6	9

TEST START TIME/INIT: 1531 MS (SK)

TEST END TIME/INIT: 1021 EM

CLIENT SAMPLE ID	LAB ID
Final Effluent #1	P260611.02
Final Effluent #2	P260612.02
Final Effluent #3	P260616.02

Concentrations

1	Control
2	Salt Control
3	2%
4	2.8%
5	10%
6	30%
7	100%
8	-
9	-

Copy and Past VALUES f

Treatment	Rep	Chamber
Control	1	33
Control	2	30
Control	3	25
Control	4	23
Control	5	32
Salt Control	1	21
Salt Control	2	9
Salt Control	3	6
Salt Control	4	12
Salt Control	5	11
2%	1	19
2%	2	15
2%	3	17
2%	4	1
2%	5	2
2.8%	1	10
2.8%	2	27
2.8%	3	35
2.8%	4	20
2.8%	5	28
10%	1	16
10%	2	22
10%	3	4
10%	4	8
10%	5	24
30%	1	26
30%	2	14
30%	3	7
30%	4	31
30%	5	3
100%	1	18
100%	2	34
100%	3	29
100%	4	13
100%	5	5

7 Day Chronic WET Test

V.5

CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 002
PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	<i>Atherinops affinis</i>
LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Topsmelt

Test Parameters	
Salinity of Sample	0.169
Test Salinity	30

CSMM Batch Number
052626A

Lab Sample ID
P260611.02

Salinity Adjustment Multiplier	29.831
---------------------------------------	--------

Coarse salinity adjustment	
mLs. Sample*	18000.0
Grams CSMM	537.0

* Adjust volume so that it equals total volume of sample needed for all dilutions

Fine Salinity Adjustment	
Salinity of coarse-adjusted Sample	25.37
Test Salinity	30
Ratio	1.18
Grams additional CSMM needed to reach target salinity	98.54946788

Final salinity	30
-----------------------	----

Salinity Adjustment Date / Initials	Meter #
6/11/2026 TVL	7

Comments

7 Day Chronic WET Test

v.5	CLIENT	LOTT Water Alliance	DATE RECEIVED	6/12/26	PROTOCOL	TOX 002
	PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
	CLIENT SAMPLE ID	Final Effluent #2	TEST END DATE	6/18/26	SPECIES	<i>Atherinops affinis</i>
	LAB SAMPLE ID	P260612.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Topsmelt

Test Parameters	
Salinity of Sample	0.187
Test Salinity	30

CSMM Batch Number
052626B

Lab Sample ID
P260612.02

Salinity Adjustment Multiplier	29.813
---------------------------------------	--------

Coarse salinity adjustment	
mLs. Sample*	19000.0
Grams CSMM	566.4

* Adjust volume so that it equals total volume of sample needed for all dilutions

Fine Salinity Adjustment	
Salinity of coarse-adjusted Sample	26.52
Test Salinity	30
Ratio	1.13
Grams additional CSMM needed to reach target salinity	74.79638009

Final salinity	30
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Salinity Adjustment Date / Initials	Meter #
6/12/2026 SK	7

Comments

7 Day Chronic WET Test

v.5

CLIENT	LOTT Water Alliance	DATE RECEIVED	6/16/26	PROTOCOL	TOX 002
PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
CLIENT SAMPLE ID	Final Effluent #3	TEST END DATE	6/18/26	SPECIES	<i>Atherinops affinis</i>
LAB SAMPLE ID	P260616.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Topsmelt

Test Parameters	
Salinity of Sample	0.23
Test Salinity	30

CSMM Batch Number
052626B

Lab Sample ID
P260616.02

Salinity Adjustment Multiplier	29.77
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Coarse salinity adjustment	
mLs. Sample*	19000.0
Grams CSMM	565.6

* Adjust volume so that it equals total volume of sample needed for all dilutions

Fine Salinity Adjustment	
Salinity of coarse-adjusted Sample	26.25
Test Salinity	30
Ratio	1.14
Grams additional CSMM needed to reach target salinity	81.42857143

Final salinity	30
-----------------------	----

Salinity Adjustment Date / Initials	Meter #
6/16/2026 SK	13

Comments

V.5	CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 002
	PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
	CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	<i>Atherinops affinis</i>
	LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Topsmelt

Day of Test	Concentration	Vol. Effluent Sample Added (mL)	Vol. Diluent Added (mL)	Total Volume (mL)	Diluent Type	FSW
0	0%	0	1250.0	1250		
	Salt Control			1250		
	2%	25	1225.0	1250		
	2.8%	35	1215.0	1250		
	10%	125	1125.0	1250		
	30%	375	875.0	1250		
	100%	1250	0.0	1250		

Day of Test	Concentration	Vol. Effluent Sample Added (mL)	Vol. Diluent Added (mL)	Total Volume (mL)
1 - 6	0%	0	1000.0	1000
	Salt Control			1000
	2%	20	980.0	1000
	2.8%	28	972.0	1000
	10%	100	900.0	1000
	30%	300	700.0	1000
	100%	1000	0.0	1000

Test Dilution Prep

Date	Balance ID	Sample ID (P#)	Water Batch ID	Initials
6/11/2026	7	P260611.02	FSW061026.01	SK
6/12/2026	7	P260612.02	FSW061026.01	SK
6/13/2026	7	P260612.02	FSW061126.01	EG
6/14/2026	7	P260612.02	FSW061326.02	EM
6/15/2026	7	P260612.02	FSW061326.02	sn
6/16/2026	7	P260616.02	FSW061526.03	SK
6/17/2026	7	P260616.02	FSW061626.01	SN

7 Day Chronic WET Test

v.5 CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 002
PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	<i>Atherinops affinis</i>
LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Topsmelt

		Concentration (%)	DO (mg/L)	TEMP (°C)	SALINITY (ppt)	pH	Comment
Day 0	Control	7.7	20.3	30	8.0		
	Stock	Salt Control	7.7	20.4	30	8.2	
	Date	06/11/26	2%	7.8	20.7	30	8.0
	Time	1455	2.8%	7.8	20.7	30	8.0
	Tech	TVL	10%	7.9	20.6	30	8.0
	Meter #	13	30%	7.9	20.7	30	7.9
	Feed	EG	100%	8.4	20.6	30	7.8
Day 1	Control	6.8	20.1	30	7.8		
	Rep 1	Salt Control	6.7	20.1	30	8.1	
	Date	06/12/26	2%	6.9	20.0	30	7.9
	Time	845	2.8%	6.9	19.9	30	7.9
	Tech	SK	10%	6.8	20.0	30	7.9
	Meter #	7	30%	6.4	20.2	30	7.9
			100%	6.2	20.2	30	7.9
Day 1	Control	7.6	19.7	30	8.0		
	Renewal Stock	Salt Control	7.6	20.1	30	8.2	
	Date	06/12/26	2%	7.6	19.7	30	8.0
	Time	1601	2.8%	7.7	19.8	30	8.0
	Tech	DM	10%	7.7	19.5	30	8.0
	Meter #	13	30%	7.9	19.6	30	7.9
			100%	8.0	19.6	30	7.8
Day 2	Control	6.1	20.9	30	7.8		
	Rep 2	Salt Control	6.2	20.7	30	8.0	
	Date	06/13/26	2%	6.1	20.7	30	7.9
	Time	1130	2.8%	6.2	20.6	30	7.9
	Tech	EG	10%	6.2	20.7	30	7.9
	Meter #	12	30%	6.2	20.7	30	7.9
			100%	6.2	20.7	30	8.0
Day 2	Control	7.5	20.5	30	8.0		
	Renewal Stock	Salt Control	7.5	20.4	30	8.2	
	Date	06/13/26	2%	7.5	20.4	30	8.0
	Time	1145	2.8%	7.6	20.3	30	8.0
	Tech	EG	10%	7.6	20.3	30	8.0
	Meter #	12	30%	7.7	20.3	30	7.9
			100%	8.2	20.2	30	7.8
Day 3	Control	6.1	21.3	30	7.7		
	Rep 3	Salt Control	5.8	21.4	30	7.9	
	Date	06/14/26	2%	5.9	21.3	30	7.7
	Time	13:21	2.8%	5.9	21.3	30	7.7
	Tech	KS	10%	5.8	21.4	30	7.7
	Meter #	13/143	30%	5.6	21.3	30	7.8
			100%	5.6	21.4	30	7.9
Day 3	Control	7.1	20.8	30	7.9		
	Renewal Stock	Salt Control	7.4	20.6	30	8.1	
	Date	06/14/26	2%	7.4	20.9	30	7.9
	Time	13:22	2.8%	7.6	20.6	30	7.9
	Tech	KS	10%	7.7	20.8	30	7.9
	Meter #	13	30%	7.8	20.7	30	7.8
			100%	7.9	20.9	30	7.8

7 Day Chronic WET Test

CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 002
PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	<i>Atherinops affinis</i>
LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Topsmelt

		DO (mg/L)	TEMP (°C)	SALINITY (ppt)	pH	
	Concentration (%)	≥ 4	19 - 21	28 - 32	6 - 9	Comment
Day 4						
Rep 4	Control	4.4	20.7	30	7.4	
	Salt Control	4.3	20.8	30	7.6	
Date 06/15/26	2%	4.6	20.6	30	7.4	
Time 845	2.8%	5.2	20.6	30	7.5	
Tech LW	10%	5.3	20.5	30	7.7	
Meter # 7	30%	3.9	20.5	30	7.5	Test was aerated after renewal. RW 6/15/26
	100%	4.4	20.6	30	7.8	
Day 4						
Renewal Stock	Control	7.3	19.7	30	7.9	
	Salt Control	7.4	20.2	31	8.1	
Date 06/15/26	2%	7.5	19.8	30	8.0	
Time 1045	2.8%	7.5	19.6	30	8.0	
Tech SN	10%	7.6	19.2	30	8.0	
Meter # 13	30%	7.6	19.0	30	7.9	
	100%	8.0	19.3	30	7.7	
Day 5						
Rep 5	Control	7.2	19.7	31	7.7	
	Salt Control	7.5	19.8	31	8.0	
Date 06/16/26	2%	7.4	20.1	31	7.9	
Time 824	2.8%	7.4	20.1	31	8.0	
Tech SN	10%	7.3	20.3	31	8.0	
Meter # 12	30%	7.4	20.3	31	8.1	
	100%	7.5	20.1	30	8.2	
Day 5						
Renewal Stock	Control	7.6	18.8	31	7.9	
	Salt Control	7.6	20.3	31	8.1	
Date 06/16/26	2%	7.7	19.0	31	7.9	
Time 1500	2.8%	7.7	19.0	31	7.9	
Tech SK	10%	7.8	19.1	31	7.9	
Meter # 13	30%	7.8	18.8	30	7.8	
	100%	8.2	19.3	30	7.7	
Day 6						
Rep 1	Control	6.8	21.1	31	7.7	
	Salt Control	7.0	21.0	31	8.0	
Date 06/17/26	2%	7.2	20.9	31	7.9	
Time 1147	2.8%	7.2	20.9	31	7.9	
Tech LW	10%	7.2	21.1	31	8.0	
Meter # 12	30%	7.2	21.0	31	8.1	
	100%	7.2	21.0	30	8.2	

v.5	CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 002
	PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
	CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	<i>Atherinops affinis</i>
	LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Topsmelt

		DO (mg/L)	TEMP (°C)	SALINITY (ppt)	pH	Comment
Concentration (%)		≥ 4	19 - 21	28 - 32	6 - 9	
Day 6 Renewal Stock Date 06/17/26 Time 1215 Tech SK Meter # 12	Control	7.6	19.5	31	7.9	
	Salt Control	7.6	19.9	31	8.2	
	2%	7.7	19.4	31	7.9	
	2.8%	7.8	19.4	31	7.9	
	10%	7.8	19.0	31	7.9	
	30%	8.0	19.8	31	7.8	
	100%	8.4	19.2	30	7.7	
Day 7 Rep 2 Date 06/18/26 Time 815 Tech MS Meter # 12	Control	7.2	20.6	31	7.8	
	Salt Control	7.2	20.6	31	8.0	
	2%	7.3	20.4	31	8.0	
	2.8%	7.4	20.4	31	8.0	
	10%	7.4	20.5	31	8.0	
	30%	7.3	20.5	31	8.1	
	100%	7.3	20.5	30	8.1	

CLIENT	LOTT Water Alliance
PROJECT	LOTT WET 2026
CLIENT SAMPLE ID	Final Effluent #1
LAB SAMPLE ID	P260611.02

DATE RECEIVED	6/11/26
TEST START DATE	6/11/26
TEST END DATE	6/18/26
MATRIX	Liquid

PROTOCOL	TOX 002
PROJECT MANAGER	M. Bennett
SPECIES	Atherinops affinis

Abbreviation Key:

NB = No Body
FB = Found Body
ST = Stranded

7 Day Chronic Toxicity with Topsmelt

Abreviation Key:
NB = No Body
FB = Found Body
ST = Stranded

Concentration (%)		REP	# Initial	Day 1 through Day 7																								Comment							
				Day 1				Day 2				Day 3				Day 4				Day 5				Day 6					Day 7						
				Date 06/12/26				Date 06/13/26				Date 06/14/26				Date 06/15/26				Date 06/16/26				Date 06/17/26					Date 06/18/26						
				Time 1607				Time 1234				Time 1420				Time 1109				Time 1315				Time 1230					Time 1021						
Tech DM				Tech EG				Tech KS				Tech SN				Tech SK/SN				Tech SK				Tech EM											
Alive				Dead				Obs				Alive				Dead				Obs				Alive				Dead				Obs			
Control	1	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0			1 fish observed swimming in circles-DM-6/12/26			
	2	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	3	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	4	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	5	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
Salt Control	1	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	2	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	3	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	4	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	5	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
2%	1	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	2	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	3	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	4	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	5	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
2.8%	1	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	2	5	4	0				4	0			4	0			4	0			4	0			4	0			4	0			Accidentally killed one fish-DM-6/12/26			
	3	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	4	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	5	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
10%	1	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	2	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	3	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	4	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	5	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
30%	1	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	2	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	3	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	4	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	5	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
100%	1	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	2	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	3	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	4	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
	5	5	5	0				5	0			5	0			5	0			5	0			5	0			5	0						
Feed (Init.)	AM		SK				EG				KS				KS				SK				SN				NONE								
250 nauplii/chamber am 500 nauplii/chamber pm	PM		SN				EG				KS				RW				KS				NL				NONE								

7 Day Chronic WET Test

v.5

CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 002
PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	<i>Atherinops affinis</i>
LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Topsmelt

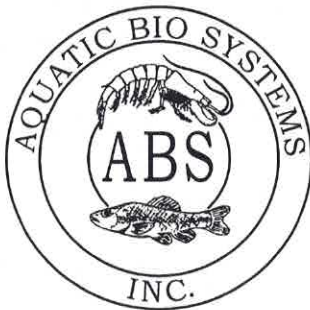
Concentration (%)	REP	Boat Number	Weight Empty Boat (mg)	Weight Boat & Animals (mg)	Pan Count	Comment
Control	1	1	55.91	66.23	5	
	2	2	38.15	49.09	5	
	3	3	35.5	42.23	5	
	4	4	35.03	44.85	5	
	5	5	37.17	45.95	5	
Salt Control	1	6	36.54	44.57	5	
	2	7	36.98	45.32	5	
	3	8	37.06	45.18	5	
	4	9	37.73	48.91	5	
	5	10	36.49	45.33	5	
2%	1	11	37	46.46	5	
	2	12	39.75	49.87	5	
	3	13	37.54	47.92	5	
	4	14	37.92	46.53	5	
	5	15	60.13	69.12	5	
2.8%	1	16	61.84	70.99	5	
	2	17	59.37	65.65	4	
	3	18	66.48	75.5	5	
	4	19	53.68	62.28	5	
	5	20	36.92	45.63	5	
10%	1	21	61.1	69.63	5	
	2	22	65.44	73.63	5	
	3	23	61.59	70.8	5	
	4	24	39.67	48.47	5	
	5	25	56.91	65.97	5	
30%	1	26	55.86	66.04	5	
	2	27	38.44	47.49	5	
	3	28	38.44	47.06	5	
	4	29	60.25	70.87	5	
	5	30	59.94	68.27	5	
100%	1	31	37.92	48.41	5	
	2	32	36.94	45.2	5	
	3	33	37.73	46.34	5	
	4	34	61.12	70.06	5	
	5	35	37.4	46.41	5	
	1	X1	37.89			
	2	X2	36.69			

	Oven Event 1	Oven Event 2
Oven ID:	Beelzebub	Beelzebub
Date/Time/Initials In Oven:	6/3/26 1445 EM	6/18/26 1102 EM
Oven Temp °C:	60	60
Date/Time/Initials Out Oven into Dessicator:	6/4/26 1546 MM	6/19/26 1235 SN
Date/Time/Initials Weighed:	6/17/26 1100 EM	6/20/26 1356 NL
Balance ID:	3	3

ORGANISM RECEIPT LOG

Date: 6/11/24		Time: 1200		Batch No. ABS 061124-01			
Organism: <i>Atherinops affinis</i>							
Source / Supplier: Aquatic Bio Systems							
No. Ordered: 1020		No. Received: 1120		Source Batch: Collection date, <u>hatch date</u> , etc.): 5/29/24			
Condition of Organisms: Good				Approximate Size or Age: (<u>Days from hatch</u> life stage, size class, etc.): 13 days			
Shipper: FedEx				B of L (Tracking No.): 4357 9737 7647			
Condition of Container: Good				Received By: EG			
Container	D.O. (mg/L)	Temp. (°C)	Cond. or Sal. (Include Units)	pH (Units)	# Dead	% Dead*	Tech. (Initials)
1	17.7	20.1	31	7.2	0	—	EG
2	18.8	20.0	31	7.2	4	—	EG
3	17.5	20.0	31	7.1	6	21.1	EG
*if >10% contact lab manager							
Notes:							

1300 Blue Spruce Drive, Suite C
Fort Collins, Colorado 80524



Toll Free: 800/331-5916
Tel: 970/484-5091 Fax: 970/484-2514

ORGANISM HISTORY

DATE: 6/10/2026

SPECIES: Atherinops affinis

AGE: 12 day

LIFE STAGE: Larvae

HATCH DATE: 5/29/2026

BEGAN FEEDING: Immediately

FOOD: Artemia sp.

Water Chemistry Record:

	Current	Range
TEMPERATURE:	<u>20°C</u>	<u>16-20°C</u>
SALINITY/CONDUCTIVITY:	<u>30 ppt</u>	<u>28-32 ppt</u>
TOTAL HARDNESS (as CaCO ₃):	<u>--</u>	<u>--</u>
TOTAL ALKALINITY (as CaCO ₃):	<u>140 mg/l</u>	<u>140-160 mg/l</u>
pH:	<u>7.65</u>	<u>7.60-8.20</u>

Comments:

Facility Supervisor, Matt Redmond

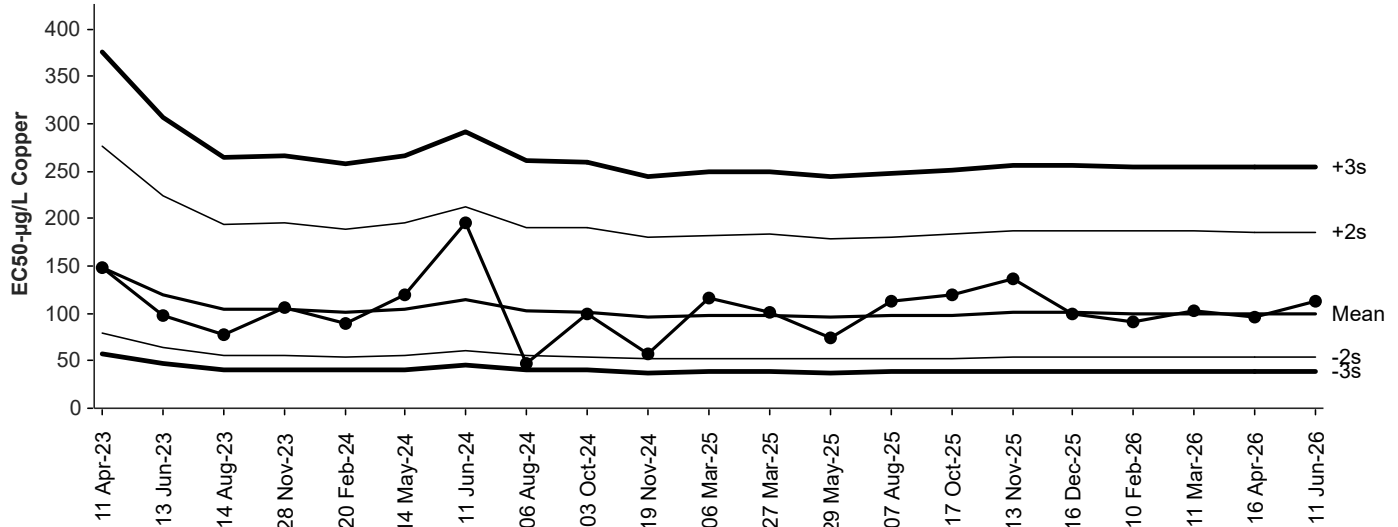
APPENDIX A1.2

***ATHERINOPS AFFINIS* (TOPSMELT) 7-DAY SURVIVAL AND GROWTH TEST**

REFERENCE TOXICANT DATA SHEETS

Pacific Topsmelt 7-d Survival and Growth Test				All Matching Labs
Test Type: Growth-Survival (7d)	Organism: Atherinops affinis	Material: Copper		
Protocol: EPA/600/R-95/136 (1995)	Endpoint: 7d Proportion Survived	Source: Reference Toxicant-REF		

Pacific Topsmelt 7-d Survival and Growth Test
7d Proportion Survived Endpoint

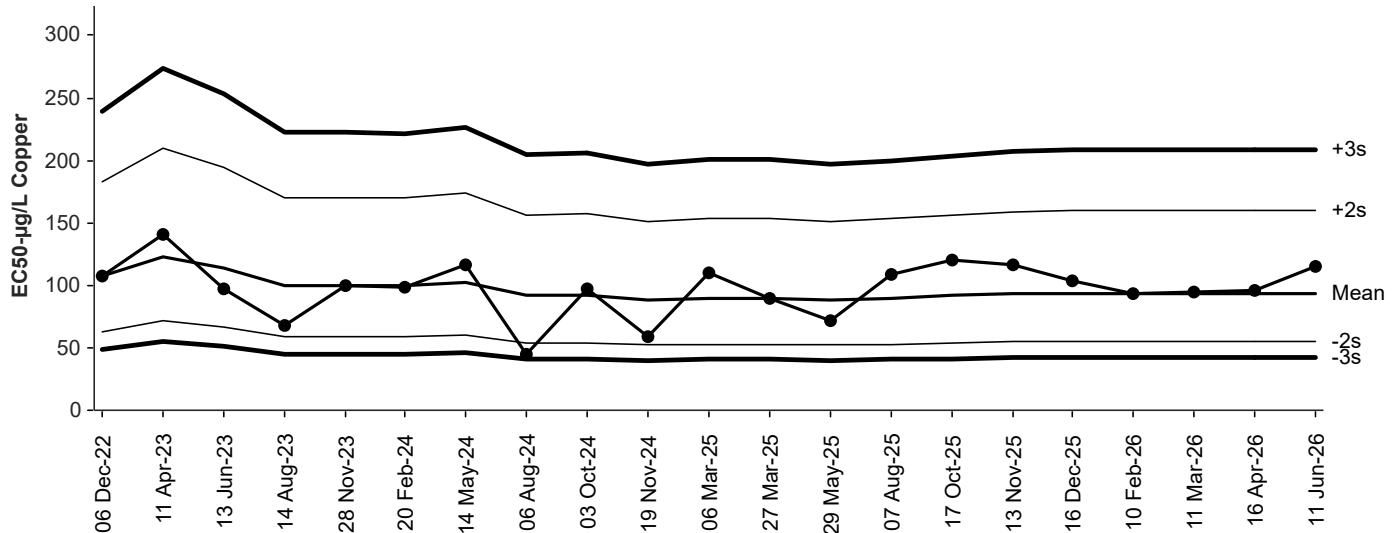


Quality Control Data

Point	Year	Month	Day	Time	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID	Laboratory
1	2023	Apr	11	14:46	147.7	48.05	1.263			03-7518-1407	18-0066-2550	EcoAnalysts
2		Jun	13	16:35	97.97	-1.714	-0.05568			01-8019-5972	12-3754-2314	EcoAnalysts
3		Aug	14	15:25	77.52	-22.16	-0.8073			06-6644-4095	01-7825-3093	EcoAnalysts
4		Nov	28	16:07	106.1	6.463	0.2017			00-9729-8180	01-6536-9055	EcoAnalysts
5	2024	Feb	20	15:10	90.08	-9.604	-0.3252			10-1210-8679	00-9207-6252	EcoAnalysts
6		May	14	14:57	120.4	20.71	0.606			18-5565-0131	05-5507-4129	EcoAnalysts
7		Jun	11	16:32	195.6	95.89	2.163	(+)		08-3838-5592	18-9323-9443	EcoAnalysts
8		Aug	6	15:25	47.39	-52.29	-2.387	(-)		00-6133-8911	03-9965-4701	EcoAnalysts
9		Oct	3	16:00	98.54	-1.146	-0.03712			21-4179-4939	20-7009-6206	EcoAnalysts
10		Nov	19	14:15	57.73	-41.96	-1.754			00-6525-6896	02-0253-9745	EcoAnalysts
11	2025	Mar	6	14:05	115.7	15.99	0.4776			00-9185-6817	04-3708-3157	EcoAnalysts
12			27	13:55	100.6	0.8728	0.02799			03-2395-9462	11-5612-9042	EcoAnalysts
13		May	29	14:17	73.39	-26.29	-0.983			12-6192-6840	18-6505-2467	EcoAnalysts
14		Aug	7	16:25	112.2	12.51	0.3796			17-3092-0445	13-2942-5413	EcoAnalysts
15		Oct	17	16:38	119.2	19.49	0.5733			17-1944-0992	06-9260-8322	EcoAnalysts
16		Nov	13	17:15	136.2	36.56	1.003			04-7059-2306	00-3622-7674	EcoAnalysts
17		Dec	16	15:14	100	0.3302	0.01062			03-0662-8954	20-6963-5031	EcoAnalysts
18	2026	Feb	10	14:01	91.44	-8.244	-0.2771			07-3557-7878	00-6186-2171	Spheros Environmental
19		Mar	11	14:15	102.4	2.675	0.08503			10-5051-6090	18-4222-9672	Spheros Environmental
20		Apr	16	14:50	95.18	-4.507	-0.1485			04-2847-2293	04-5450-7606	Spheros Environmental
21		Jun	11	15:31	113.2	13.51	0.4081			17-3943-7188	13-1109-7516	Spheros Environmental

Pacific Topsmelt 7-d Survival and Growth Test				All Matching Labs
Test Type: Growth-Survival (7d)	Organism: Atherinops affinis	Material: Copper		
Protocol: EPA/600/R-95/136 (1995)	Endpoint: Mean Dry Biomass-mg	Source: Reference Toxicant-REF		

Pacific Topsmelt 7-d Survival and Growth Test
Mean Dry Biomass-mg Endpoint



Mean: 93.69 Count: 20 -2s Warning Limit: 55 -3s Action Limit: 42.1
Sigma: NA CV: 27.20% +2s Warning Limit: 160 +3s Action Limit: 209

Quality Control Data

Point	Year	Month	Day	Time	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID	Laboratory
1	2022	Dec	6	16:28	107.3	13.64	0.5096			14-7580-4802	10-0695-3597	EcoAnalysts
2	2023	Apr	11	14:46	140.8	47.16	1.529			03-7518-1407	21-2232-1584	EcoAnalysts
3		Jun	13	16:35	97.38	3.692	0.1449			01-8019-5972	17-6654-7916	EcoAnalysts
4		Aug	14	15:25	67.74	-25.96	-1.216			06-6644-4095	05-8575-6137	EcoAnalysts
5		Nov	28	16:07	99.74	6.048	0.2345			00-9729-8180	12-7800-0655	EcoAnalysts
6	2024	Feb	20	15:10	98.05	4.356	0.1704			10-1210-8679	02-9654-5507	EcoAnalysts
7		May	14	14:57	116.5	22.85	0.8184			18-5565-0131	05-7328-0784	EcoAnalysts
8		Aug	6	15:25	44.88	-48.81	-2.76	(-)		00-6133-8911	16-2482-9580	EcoAnalysts
9		Oct	3	16:00	96.8	3.113	0.1225			21-4179-4939	02-6138-6679	EcoAnalysts
10		Nov	19	14:15	58.55	-35.15	-1.763			00-6525-6896	12-7021-0395	EcoAnalysts
11	2025	Mar	6	14:05	110.1	16.42	0.6054			00-9185-6817	20-1342-8821	EcoAnalysts
12			27	13:55	89.24	-4.453	-0.1826			03-2395-9462	09-3332-8237	EcoAnalysts
13		May	29	14:17	71.4	-22.3	-1.019			12-6192-6840	14-1998-8442	EcoAnalysts
14		Aug	7	16:25	108.4	14.71	0.5467			17-3092-0445	20-6612-8705	EcoAnalysts
15		Oct	17	16:38	119.8	26.11	0.9217			17-1944-0992	01-9226-1110	EcoAnalysts
16		Nov	13	17:15	116.3	22.61	0.8105			04-7059-2306	06-7216-1844	EcoAnalysts
17		Dec	16	15:14	103.9	10.19	0.3871			03-0662-8954	05-2953-0237	EcoAnalysts
18	2026	Feb	10	14:01	93.44	-0.2529	-0.01013			07-3557-7878	04-3970-3904	Spheros Environmental
19		Mar	11	14:15	94.71	1.023	0.04073			10-5051-6090	19-4674-3657	Spheros Environmental
20		Apr	16	14:50	96.28	2.589	0.1022			04-2847-2293	18-3302-4008	Spheros Environmental
21		Jun	11	15:31	114.5	20.84	0.7532			17-3943-7188	19-5346-7326	Spheros Environmental

CETIS Summary Report

Report Date: 09 Jul-26 09:01 (p 1 of 2)
Test Code/ID: R240207.233 / 17-3943-7188

Pacific Topsmelt 7-d Survival and Growth Test					Spheros Environmental	
Batch ID:	20-1653-8023	Test Type:	Growth-Survival (7d)	Analyst:	Michelle Bennett	
Start Date:	11 Jun-26 15:31	Protocol:	EPA/600/R-95/136 (1995)	Diluent:	Laboratory Seawater	
Ending Date:	18 Jun-26 11:00	Species:	Atherinops affinis	Brine:	Not Applicable	
Test Length:	6d 19h	Taxon:	Actinopterygii	Source:	Aquatic Biosystems, CO	Age: 13D
Sample ID:	01-7121-5487	Code:	R240207.233	Project:	Reference Toxicant	
Sample Date:	07 Feb-24	Material:	Copper	Source:	Reference Toxicant	
Receipt Date:	07 Feb-24	CAS (PC):		Station:	R240207.233	
Sample Age:	855d 16h	Client:	Internal Lab			

Multiple Comparison Summary						
Analysis ID	Endpoint	Comparison Method	NOEL	LOEL	TOEL	PMSD
05-1187-4538	7d Proportion Survived	Steel Many-One Rank Sum Test	80	160	113.1	11.5%
21-3338-6490	Mean Dry Biomass-mg	Dunnett Multiple Comparison Test	80	160	113.1	17.2%
14-4693-1870	Mean Dry Weight-mg	Bonferroni Adj t Test	80	160	113.1	21.2%

Point Estimate Summary						
Analysis ID	Endpoint	Point Estimate Method	Level	µg/L	95% LCL	95% UCL
13-1109-7516	7d Proportion Survived	Linear Interpolation (ICPIN)	EC50	113.2	104.6	122.3
19-5346-7326	Mean Dry Biomass-mg	Linear Interpolation (ICPIN)	IC50	114.5	106.2	120
16-2138-3809	Mean Dry Weight-mg	Linear Interpolation (ICPIN)	IC50	>160	---	---

Test Acceptability				TAC Limits			
Analysis ID	Endpoint	Attribute	Test Stat	Lower	Upper	Overlap	Decision
05-1187-4538	7d Proportion Survived	Control Resp	1	0.8	>>	Yes	Passes Criteria
13-1109-7516	7d Proportion Survived	Control Resp	1	0.8	>>	Yes	Passes Criteria
19-5346-7326	Mean Dry Biomass-mg	Control Resp	2.081	0.85	>>	Yes	Passes Criteria
21-3338-6490	Mean Dry Biomass-mg	Control Resp	2.081	0.85	>>	Yes	Passes Criteria
05-1187-4538	7d Proportion Survived	PMSD	0.1149	<<	0.25	Yes	Passes Criteria
21-3338-6490	Mean Dry Biomass-mg	PMSD	0.1723	<<	0.5	Yes	Passes Criteria

7d Proportion Survived Summary											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
20		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
40		5	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
80		5	0.9200	0.7840	1.0000	0.8000	1.0000	0.0490	0.1095	11.91%	8.00%
160		5	0.0800	0.0000	0.2160	0.0000	0.2000	0.0490	0.1095	136.93%	92.00%
320		5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	---	100.00%

Mean Dry Biomass-mg Summary											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	5	2.081	1.784	2.378	1.834	2.466	0.1069	0.2391	11.49%	0.00%
20		5	2.111	1.889	2.333	1.832	2.29	0.07988	0.1786	8.46%	-1.44%
40		5	1.94	1.613	2.266	1.608	2.336	0.1175	0.2628	13.55%	6.79%
80		5	2.15	1.723	2.577	1.75	2.514	0.1538	0.3439	16.00%	-3.33%
160		5	0.1164	-0.08388	0.3167	0	0.326	0.07213	0.1613	138.57%	94.41%
320		5	0	0	0	0	0	0	0	---	100.00%

Mean Dry Weight-mg Summary											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	5	2.081	1.784	2.378	1.834	2.466	0.1069	0.2391	11.49%	0.00%
20		5	2.111	1.889	2.333	1.832	2.29	0.07988	0.1786	8.46%	-1.44%
40		5	1.94	1.613	2.266	1.608	2.336	0.1175	0.2628	13.55%	6.79%
80		5	2.33	2.147	2.513	2.188	2.514	0.06598	0.1475	6.33%	-11.97%
160		2	1.455	-0.7686	3.679	1.28	1.63	0.175	0.2475	17.01%	30.07%

CETIS Summary Report

Report Date: 09 Jul-26 09:01 (p 2 of 2)
 Test Code/ID: R240207.233 / 17-3943-7188

Pacific Topsmelt 7-d Survival and Growth Test Spheros Environmental

7d Proportion Survived Detail							MD5: 915AA6A1EF004F8F38AE11EA2DEADD46
Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	
20		1.0000	1.0000	1.0000	1.0000	1.0000	
40		1.0000	1.0000	1.0000	1.0000	1.0000	
80		1.0000	1.0000	1.0000	0.8000	0.8000	
160		0.0000	0.2000	0.0000	0.0000	0.2000	
320		0.0000	0.0000	0.0000	0.0000	0.0000	

Mean Dry Biomass-mg Detail							MD5: 1C8C53F93D4927758BAC23027333B12E
Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	
0	D	2.098	2.466	2.062	1.834	1.944	
20		1.832	2.29	2.142	2.23	2.06	
40		1.608	1.99	2.336	1.884	1.88	
80		2.192	2.514	2.446	1.848	1.75	
160		0	0.256	0	0	0.326	
320		0	0	0	0	0	

Mean Dry Weight-mg Detail							MD5: 36BC91FC027CE2E500004AB3DCF7D5E6
Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	
0	D	2.098	2.466	2.062	1.834	1.944	
20		1.832	2.29	2.142	2.23	2.06	
40		1.608	1.99	2.336	1.884	1.88	
80		2.192	2.514	2.446	2.31	2.188	
160		---	1.28	---	---	1.63	
320		---	---	---	---	---	

7d Proportion Survived Binomials						
Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	D	5/5	5/5	5/5	5/5	5/5
20		5/5	5/5	5/5	5/5	5/5
40		5/5	5/5	5/5	5/5	5/5
80		5/5	5/5	5/5	4/5	4/5
160		0/5	1/5	0/5	0/5	1/5
320		0/5	0/5	0/5	0/5	0/5

CETIS Test Data Worksheet

Report Date: 09 Jul-26 09:01 (p 1 of 2)
Test Code/ID: R240207.233 / 17-3943-7188

Pacific Topsmelt 7-d Survival and Growth Test

Spheros Environmental

Start Date: 11 Jun-26 15:31 Species: Atherinops affinis Sample Code: R240207.233
End Date: 18 Jun-26 11:00 Protocol: EPA/600/R-95/136 (1995) Sample Source: Reference Toxicant
Sample Date: 07 Feb-24 Material: Copper Sample Station: R240207.233

Conc-µg/L	Code	Rep	Pos	# Exposed	1d Survival	2d Survival	3d Survival	4d Survival	5d Survival	6d Survival	7d Survival	Total Weight-mg	Tare Weight-mg	Pan Count	Notes
0	D	1	10	5							5	66.15	55.66	5	
0	D	2	28	5							5	68.19	55.86	5	
0	D	3	18	5							5	47.28	36.97	5	
0	D	4	25	5							5	45.96	36.79	5	
0	D	5	23	5							5	47.91	38.19	5	
20		1	7	5							5	46.49	37.33	5	
20		2	4	5							5	47.32	35.87	5	
20		3	12	5							5	47.13	36.42	5	
20		4	15	5							5	48.33	37.18	5	
20		5	1	5							5	67.71	57.41	5	
40		1	27	5							5	68.38	60.34	5	
40		2	30	5							5	64.87	54.92	5	
40		3	22	5							5	66.52	54.84	5	
40		4	5	5							5	63.89	54.47	5	
40		5	11	5							5	64.28	54.88	5	
80		1	29	5							5	47.11	36.15	5	
80		2	13	5							5	49.19	36.62	5	
80		3	2	5							5	73.5	61.27	5	
80		4	21	5							4	70.01	60.77	4	
80		5	24	5							4	63.49	54.74	4	
160		1	9	5							0	0	0		
160		2	20	5							1	36.92	35.64	1	
160		3	3	5							0	0	0		
160		4	26	5							0	0	0		
160		5	16	5							1	49.38	47.75	1	
320		1	17	5							0	0	0		
320		2	6	5							0	0	0		
320		3	8	5							0	0	0		

CETIS Test Data Worksheet

Report Date: 09 Jul-26 09:01 (p 2 of 2)
Test Code/ID: R240207.233 / 17-3943-7188

Conc-µg/L	Code	Rep	Pos	# Exposed	1d Survival	2d Survival	3d Survival	4d Survival	5d Survival	6d Survival	7d Survival	Total Weight-mg	Tare Weight-mg	Pan Count	Notes
320		4	19	5							0	0	0		
320		5	14	5							0	0	0		

Version V.1

GENERAL

Client	Internal
Associated Test	Various
Compound	Copper Chloride
Toxicant	Copper
Test Type	Reference Toxicant
Test type	7 Day Chronic Toxicity with Topsmelt
Matrix	Liquid
Test Acceptability	≥ 80% average survival in control Average dry weight is > 0.85 mg per surviving fish. LC50 ≤ 205µg/L; <25% PMSD Survival, <50% PMSD Growth
Test Start Date	06/11/26
Test Species	<i>Atherinops affinis</i>
Organism Batch	ABS061126.01
Organism Acquired	6/11/2026
Organism Acclimation	0
Organism Age	13 D/O
Test Protocol	TOX 002 / TOX 099
Test Location	BATH 11
Light Intensity	50-100 foot candles
Light Cycle	16L:8D
Water Description	0.45 um filtered seawater
Organisms per Replicate	5
Test Chamber Size	20 oz.
Exposure Volume	250 mL
Feeding Information	250 nauplii/chamber am 500 nauplii/chamber pm
Test Dissolved Oxygen	≥ 4
Test Temperature	20 ± 1
Test Salinity	30 ± 2
Test pH	7.5 ± 1.5

Note: input lowest and highest decimal for temp

Test Parameters		
	Min	Max
DO	4.0	
Temp	19	21
Salinity	28	32
pH	6	9

TEST START TIME/INIT:

1531 SK/MS

TEST END TIME/INIT:

1100

SN

REFERENCE TOXICANT TEST ID

LOT #

R240207.233

BCCH9104

Concentrations (µg/L)

1	Control
2	20
3	40
4	80
5	160
6	320

Food Batch ID

111935

Copy and Past VALUES fr

Treatment	Rep	Chamber
Control	1	2
Control	2	1
Control	3	29
Control	4	8
Control	5	15
20	1	6
20	2	17
20	3	14
20	4	22
20	5	13
40	1	28
40	2	24
40	3	18
40	4	11
40	5	25
80	1	20
80	2	19
80	3	9
80	4	16
80	5	7
160	1	26
160	2	12
160	3	30
160	4	3
160	5	23
320	1	5
320	2	27
320	3	10
320	4	21
320	5	4

7 Day Chronic WET Test

v.1	CLIENT	Internal	TEST TYPE	Reference Toxicant	PROTOCOL	TOX 002 / TOX 099
	ASSOCIATED TEST	Various	TEST START DATE	6/11/26	TOXICANT	Copper
	REF TOX ID	R240207.233	TEST END DATE	6/18/26	SPECIES	<i>Atherinops affinis</i>
	LOT #	BCCH9104	MATRIX	Liquid		

7 Day Chronic Toxicity with Topsmelt

Dilution Preparation (Serial dilute by 50%)

CuCl ₂ *2H ₂ O Stock Solution (µg/L Cu)	Target Stock Solution Conc. (µg/L)	Volume of Diluent (mL)	Amt. of Toxicant (mL)
400,000	320	2500	2.0
400,000	160	2500	1.0
400,000	80	2500	0.5

Test Dilution Prep

Date	Balance ID	Water Batch ID	Initials	Highest Concentration Prepared	Comments
6/11/2026	7	FSW061026.01	TVL	320	
6/12/2026	7	FSW061026.01	SK	320	
6/13/2026	7	FSW061126.01	EG	320	
6/14/2026	7	FSW061326.02	EM	320	
6/15/2026	7	FSW061326.02	sn	320	
6/16/2026	7	FSW061526.03	SN	320	
6/17/2026	7	FSW061626.01	SN	320	

Water Quality

		Concentration (µg/L)	DO (mg/L)	TEMP (°C)	SALINITY	pH
			4	19 - 21	28 - 32	6 - 9
Day 0 (Stock)		Control	7.7	20.2	30	8.0
Date	6/11/2026	20	7.9	20.1	30	8.0
Time	9:14	40	7.9	20.1	30	8.0
Tech	EG	80	7.9	20.2	30	8.0
Meter #	12	160	7.9	20.3	30	8.0
Feed (initials)	EG	320	7.9	20.3	30	8.0
Temperature	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
Meter #	T45	T43	T43	T33	T43	T50
Old	20.5	20.4	21.1	20.8	20.3	20.5
New	19.5	19.3	21.0	19.7	19.0	19.1
Tech	SK	EG	EM	LW	SN	LW
Day 7		Control	5.7	20.5	31	7.7
Replicate #	1	20	6.2	20.5	31	7.8
Date	6/18/2026	40	6.5	20.6	31	7.8
Time	8:25	80	6.2	20.5	31	7.8
Tech	MS	160	6.7	20.5	31	7.9
Meter #	12	320				

Comments

CLIENT	Internal	TEST TYPE	Reference Toxicant	PROTOCOL	TOX 002 / TOX 099
ASSOCIATED TEST	Various	TEST START DATE	6/11/26	TOXICANT	Copper
REF TOX ID	R240207.233	TEST END DATE	6/18/26	SPECIES	Atherinops affinis
LOT #	BCCH9104	MATRIX	Liquid		

Abbreviation Key:

NB = No Body
FB = Found Body
ST = Stranded

7 Day Chronic Toxicity with Topsmelt

		1. Day 1 - Day 7 Summary (Week 1) - Repetition																						
		Day 1			Day 2			Day 3			Day 4			Day 5			Day 6			Day 7				
		Date	06/12/26		Date	06/13/26		Date	06/14/26		Date	06/15/26		Date	06/16/26		Date	06/17/26		Date	06/18/26			
		Time	1320		Time	1606		Time	1320		Time	1319		Time	1130		Time	1317		Time	1100			
		Tech	SK		Tech	RW		Tech	EM		Tech	SN		Tech	SK		Tech	LW		Tech	SN			
Concentration (µg/L)	REP	# Initiated	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Comments
Control	1	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	3	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	4	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	5	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
20	1	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	3	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	4	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	5	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
40	1	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	3	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	4	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	5	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
80	1	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	3	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	4	5	4	1		4	0		4	0		4	0		4	0		4	0		4	0		
	5	5	5	0		4	1		4	0		4	0		4	0		4	0		4	0		
160	1	5	5	0		4	1		1	3		0	1											
	2	5	4	1		2	2		1	1		1	0		1	0		1	0		1	0		
	3	5	5	0		3	2		1	2		0	1											
	4	5	5	0		2	3		1	1		0	1											
	5	5	5	0		4	1		2	2		1	1		1	0		1	0		1	0		
320	1	5	2	3		2	0		1	1		0	1											
	2	5	1	4		1	0		0	1														
	3	5	3	2		2	1		2	0		1	1		1	0		0	1					
	4	5	4	1		3	1		1	2		0	1											
	5	5	3	2		0	3																	
Feed (Init.)	AM		SK			EG			KS			KS			SK			SN			NONE			
250 nauplii/chamber am 500 nauplii/chamber pm	PM		SN			EG			KS			RW			KS			NL			NONE			

CLIENT	Internal	TEST TYPE	Reference Toxicant	PROTOCOL	TOX 002 / TOX 099
ASSOCIATED TEST	Various	TEST START DATE	6/11/26	TOXICANT	Copper
REF TOX ID	R240207.233	TEST END DATE	6/18/26	SPECIES	Atherinops affinis
LOT #	BCCH9104	MATRIX	Liquid		

7 Day Chronic Toxicity with Topsmelt

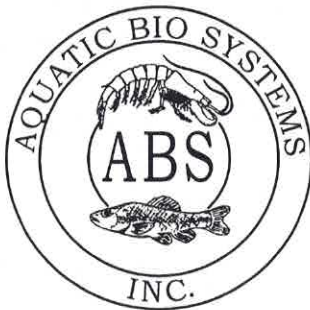
Concentration (µg/L)	REP	Boat Number	Weight Empty Boat (mg)	Weight Boat & Animals (mg)	Pan Count	Comments
Control	1	1	55.66	66.15	5	
	2	2	55.86	68.19	5	
	3	3	36.97	47.28	5	
	4	4	36.79	45.96	5	
	5	5	38.19	47.91	5	
20	1	6	37.33	46.49	5	
	2	7	35.87	47.32	5	
	3	8	36.42	47.13	5	
	4	9	37.18	48.33	5	
	5	10	57.41	67.71	5	
40	1	11	60.34	68.38	5	
	2	12	54.92	64.87	5	
	3	13	54.84	66.52	5	
	4	14	54.47	63.89	5	
	5	15	54.88	64.28	5	
80	1	16	36.15	47.11	5	
	2	17	36.62	49.19	5	
	3	18	61.27	73.5	5	
	4	19	60.77	70.01	4	
	5	20	54.74	63.49	4	
160	1	21	35.86			
	2	22	35.64	36.92	1	
	3	23	38.81			
	4	24	36.41			
	5	25	47.75	49.38	1	
320	1	26	37.82			
	2	27	36.92			
	3	28	41.73			
	4	29	36.31			x1: 36.43 mg
	5	30	38.28			x2: 56.77 mg

		Oven Event 1	Oven Event 2
Oven ID:		Beelzebub	Beelzebub
Date/Time/Initials In Oven:		6/3/26 1445 EM	6/18/26 1141 sn
Oven Temp °C:		60	60.00
Date/Time/Initials Out Oven into Dessicator:		6/4/26 1546 MM	6/19/26 1235 SN
Date/Time/Initials Weighed:		6/16/26 0723 MS	6/20/26 1424 NL
Balance ID:		3.00	3.00

ORGANISM RECEIPT LOG

Date: 6/11/20		Time: 1200		Batch No. ABS 061120-01			
Organism: <i>Atherinops affinis</i>							
Source / Supplier: Aquatic Bio Systems							
No. Ordered: 1020		No. Received: 1120		Source Batch: Collection date, <u>hatch date</u> , etc.): 5/29/20			
Condition of Organisms: Good				Approximate Size or Age: (<u>Days from hatch</u> life stage, size class, etc.): 13 days			
Shipper: FedEx				B of L (Tracking No.): 4357 9737 7647			
Condition of Container: Good				Received By: EG			
Container	D.O. (mg/L)	Temp. (°C)	Cond. or <u>Sal.</u> (Include Units)	pH (Units)	# Dead	% Dead*	Tech. (Initials)
1	17.7	20.1	31	7.2	0	—	EG
2	18.8	20.0	31	7.2	4	—	EG
3	17.5	20.0	31	7.1	6	21.1	EG
*if >10% contact lab manager							
Notes:							

1300 Blue Spruce Drive, Suite C
Fort Collins, Colorado 80524



Toll Free: 800/331-5916
Tel: 970/484-5091 Fax: 970/484-2514

ORGANISM HISTORY

DATE: 6/10/2026

SPECIES: Atherinops affinis

AGE: 12 day

LIFE STAGE: Larvae

HATCH DATE: 5/29/2026

BEGAN FEEDING: Immediately

FOOD: Artemia sp.

Water Chemistry Record:

	Current	Range
TEMPERATURE:	<u>20°C</u>	<u>16-20°C</u>
SALINITY/CONDUCTIVITY:	<u>30 ppt</u>	<u>28-32 ppt</u>
TOTAL HARDNESS (as CaCO ₃):	<u>--</u>	<u>--</u>
TOTAL ALKALINITY (as CaCO ₃):	<u>140 mg/l</u>	<u>140-160 mg/l</u>
pH:	<u>7.65</u>	<u>7.60-8.20</u>

Comments:

Facility Supervisor, Matt Redmond

APPENDIX A2.1

***AMERICAMYSIS BAHIA* (MYSID) 7-DAY SURVIVAL AND GROWTH TEST**

STATISTICAL COMPARISONS AND LABORATORY DATA SHEETS

CETIS Summary Report

Report Date: 02 Jul-26 10:24 (p 1 of 3)
Test Code/ID: P260611.02 / 10-1566-9864

Mysidopsis 7-d Survival, Growth and Fecundity Test				Spheros Environmental	
Batch ID:	10-9146-2031	Test Type:	Growth-Survival-Fec (7d)	Analyst:	Michelle Bennett
Start Date:	11 Jun-26 15:40	Protocol:	EPA/821/R-02-014 (2002)	Diluent:	Laboratory Seawater
Ending Date:	18 Jun-26 12:03	Species:	Americamysis bahia	Brine:	Crystal Sea Marine Mix
Test Length:	6d 20h	Taxon:	Malacostraca	Source:	Spheros Env. Florida
				Age:	7D
Sample ID:	02-8619-6450	Code:	P260611.02	Project:	LOTT WET 2026
Sample Date:	10 Jun-26 05:00	Material:	Effluent Sample	Source:	LOTT Clean Water Alliance (WA00370)
Receipt Date:	11 Jun-26 12:00	CAS (PC):		Station:	Final Effluent #1
Sample Age:	35h (0.2 °C)	Client:	LOTT		

Single Comparison Summary				
Analysis ID	Endpoint	Comparison Method	P-Value	Comparison Result
20-2582-4845	7d Proportion Survived	Wilcoxon Rank Sum Two-Sample Test	1.0000	Salt Control passed 7d proportion survived
16-0257-4078	Mean Dry Biomass-mg	Equal Variance t Two-Sample Test	0.8931	Salt Control passed mean dry biomass-mg
16-3700-9201	Mean Dry Weight-mg	Equal Variance t Two-Sample Test	0.6910	Salt Control passed mean dry weight-mg

Multiple Comparison Summary							
Analysis ID	Endpoint	Comparison Method	NOEL	LOEL	TOEL	PMSD	TU
04-4863-9155	7d Proportion Survived	Steel Many-One Rank Sum Test	100	>100	---	12.1%	1
20-3077-8685	Mean Dry Biomass-mg	Steel Many-One Rank Sum Test	100	>100	---	23.3%	1
06-8149-4026	Mean Dry Weight-mg	Steel Many-One Rank Sum Test	100	>100	---	22.0%	1

Point Estimate Summary							
Analysis ID	Endpoint	Point Estimate Method	Level	%	95% LCL	95% UCL	TU
10-7660-3855	7d Proportion Survived	Linear Interpolation (ICPIN)	EC25	>100	---	---	<1
19-2236-8351	Mean Dry Biomass-mg	Linear Interpolation (ICPIN)	IC25	>100	---	---	<1
12-9326-7728	Mean Dry Weight-mg	Linear Interpolation (ICPIN)	IC25	>100	---	---	<1

Test Acceptability							
Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits		Overlap	Decision
				Lower	Upper		
04-4863-9155	7d Proportion Survived	Control Resp	0.95	0.8	>>	Yes	Passes Criteria
10-7660-3855	7d Proportion Survived	Control Resp	0.95	0.8	>>	Yes	Passes Criteria
20-2582-4845	7d Proportion Survived	Control Resp	0.95	0.8	>>	Yes	Passes Criteria
16-0257-4078	Mean Dry Biomass-mg	Control Resp	0.24	0.2	>>	Yes	Passes Criteria
19-2236-8351	Mean Dry Biomass-mg	Control Resp	0.24	0.2	>>	Yes	Passes Criteria
20-3077-8685	Mean Dry Biomass-mg	Control Resp	0.24	0.2	>>	Yes	Passes Criteria
16-0257-4078	Mean Dry Biomass-mg	PMSD	0.131	0.11	0.37	Yes	Passes Criteria
20-3077-8685	Mean Dry Biomass-mg	PMSD	0.2327	0.11	0.37	Yes	Passes Criteria

CETIS Summary Report

Report Date: 02 Jul-26 10:24 (p 2 of 3)
Test Code/ID: P260611.02 / 10-1566-9864

Mysidopsis 7-d Survival, Growth and Fecundity Test

Spheros Environmental

7d Proportion Survived Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	8	0.9500	0.8726	1.0000	0.8000	1.0000	0.0327	0.0926	9.75%	0.00%
0	SC	8	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-5.26%
2		8	0.9250	0.8385	1.0000	0.8000	1.0000	0.0366	0.1035	11.19%	2.63%
2.8		8	0.9500	0.8726	1.0000	0.8000	1.0000	0.0327	0.0926	9.75%	0.00%
10		8	0.9750	0.9159	1.0000	0.8000	1.0000	0.0250	0.0707	7.25%	-2.63%
30		8	0.9750	0.9159	1.0000	0.8000	1.0000	0.0250	0.0707	7.25%	-2.63%
100		8	0.9500	0.8318	1.0000	0.6000	1.0000	0.0500	0.1414	14.89%	0.00%

Mean Dry Biomass-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	8	0.24	0.2114	0.2686	0.192	0.304	0.01211	0.03424	14.27%	0.00%
0	SC	8	0.2632	0.2322	0.2943	0.218	0.334	0.01312	0.03711	14.10%	-9.69%
2		8	0.2484	0.2226	0.2741	0.21	0.304	0.01088	0.03078	12.39%	-3.49%
2.8		8	0.2365	0.1994	0.2736	0.16	0.298	0.01571	0.04444	18.79%	1.46%
10		8	0.2348	0.2078	0.2617	0.19	0.288	0.0114	0.03223	13.73%	2.19%
30		8	0.2758	0.2066	0.3449	0.186	0.464	0.02924	0.08271	30.00%	-14.90%
100		8	0.2186	0.1802	0.257	0.124	0.272	0.01624	0.04595	21.02%	8.91%

Mean Dry Weight-mg Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	8	0.2538	0.223	0.2847	0.204	0.3125	0.01305	0.03691	14.54%	0.00%
0	SC	8	0.2632	0.2322	0.2943	0.218	0.334	0.01312	0.03711	14.10%	-3.72%
2		8	0.27	0.2417	0.2983	0.235	0.3375	0.01199	0.0339	12.56%	-6.38%
2.8		8	0.2499	0.2129	0.2868	0.16	0.298	0.01562	0.04418	17.68%	1.55%
10		8	0.2423	0.209	0.2755	0.19	0.3	0.01405	0.03973	16.40%	4.56%
30		8	0.2841	0.2129	0.3553	0.186	0.464	0.03011	0.08517	29.98%	-11.94%
100		8	0.229	0.2064	0.2516	0.196	0.272	0.009555	0.02703	11.80%	9.79%

CETIS Summary Report

Report Date: 02 Jul-26 10:24 (p 3 of 3)
 Test Code/ID: P260611.02 / 10-1566-9864

Mysidopsis 7-d Survival, Growth and Fecundity Test

Spheros Environmental

7d Proportion Survived Detail

MD5: 9E8D2814C774AF3743C0D97C2F6B0C23

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	D	1.0000	1.0000	1.0000	0.8000	1.0000	1.0000	0.8000	1.0000
0	SC	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
2		0.8000	1.0000	0.8000	1.0000	1.0000	1.0000	0.8000	1.0000
2.8		1.0000	0.8000	1.0000	1.0000	1.0000	1.0000	0.8000	1.0000
10		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.8000	1.0000
30		1.0000	1.0000	0.8000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	0.6000	1.0000	1.0000	1.0000	1.0000	1.0000

Mean Dry Biomass-mg Detail

MD5: 254D8D65A136628EBEE79B65DB97CD67

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	D	0.254	0.236	0.23	0.192	0.204	0.304	0.25	0.25
0	SC	0.276	0.278	0.23	0.258	0.334	0.278	0.218	0.234
2		0.21	0.246	0.27	0.235	0.256	0.254	0.212	0.304
2.8		0.254	0.196	0.218	0.298	0.264	0.16	0.232	0.27
10		0.19	0.21	0.23	0.288	0.268	0.21	0.24	0.242
30		0.186	0.27	0.268	0.254	0.464	0.278	0.214	0.272
100		0.196	0.214	0.124	0.208	0.245	0.234	0.272	0.256

Mean Dry Weight-mg Detail

MD5: AFEFF6468D25B4CD3B46733732552EC5

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	D	0.254	0.236	0.23	0.24	0.204	0.304	0.3125	0.25
0	SC	0.276	0.278	0.23	0.258	0.334	0.278	0.218	0.234
2		0.2625	0.246	0.3375	0.235	0.256	0.254	0.265	0.304
2.8		0.254	0.245	0.218	0.298	0.264	0.16	0.29	0.27
10		0.19	0.21	0.23	0.288	0.268	0.21	0.3	0.242
30		0.186	0.27	0.335	0.254	0.464	0.278	0.214	0.272
100		0.196	0.214	0.2067	0.208	0.245	0.234	0.272	0.256

7d Proportion Survived Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	D	5/5	5/5	5/5	4/5	5/5	5/5	4/5	5/5
0	SC	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
2		4/5	5/5	4/5	6/6	5/5	5/5	4/5	5/5
2.8		5/5	4/5	5/5	5/5	5/5	5/5	4/5	5/5
10		5/5	5/5	5/5	5/5	5/5	5/5	4/5	5/5
30		5/5	5/5	4/5	5/5	5/5	5/5	5/5	5/5
100		5/5	5/5	3/5	5/5	4/4	5/5	5/5	5/5

CETIS Test Data Worksheet

Report Date: 02 Jul-26 10:23 (p 1 of 2)
Test Code/ID: P260611.02 / 10-1566-9864

Mysidopsis 7-d Survival, Growth and Fecundity Test

Spheros Environmental

Start Date: 11 Jun-26 15:40 Species: Americamysis bahia Sample Code: P260611.02
End Date: 18 Jun-26 12:03 Protocol: EPA/821/R-02-014 (2002) Sample Source: LOTT Clean Water Alliance
Sample Date: 10 Jun-26 05:00 Material: Effluent Sample Sample Station: Final Effluent #1

Conc-%	Code	Rep	Pos	# Exposed	1d Survival	2d Survival	3d Survival	4d Survival	5d Survival	6d Survival	7d Survival	Total Weight-mg	Tare Weight-mg	Pan Count	Total Females	Gravid Females	Notes
0	D	1	27	5							5	10.02	8.75	5			
0	D	2	10	5							5	14.72	13.54	5			
0	D	3	9	5							5	13.37	12.22	5			
0	D	4	20	5							4	13.37	12.41	4			
0	D	5	36	5							5	9.69	8.67	5			
0	D	6	49	5							5	9.82	8.3	5			
0	D	7	26	5							4	13.95	12.7	4			
0	D	8	22	5							5	10.75	9.5	5			
0	SC	1	39	5							5	14.39	13.01	5			
0	SC	2	47	5							5	14.41	13.02	5			
0	SC	3	35	5							5	14.39	13.24	5			
0	SC	4	52	5							5	13.49	12.2	5			
0	SC	5	29	5							5	13.94	12.27	5			
0	SC	6	55	5							5	13.59	12.2	5			
0	SC	7	13	5							5	9.71	8.62	5			
0	SC	8	12	5							5	13.66	12.49	5			
2		1	3	5							4	13.41	12.36	4			
2		2	51	5							5	13.43	12.2	5			
2		3	23	5							4	9.85	8.5	4			
2		4	1	6							6	13.6	12.19	6			
2		5	25	5							5	9.37	8.09	5			
2		6	4	5							5	13.55	12.28	5			
2		7	53	5							4	13.48	12.42	4			
2		8	14	5							5	14.11	12.59	5			
2.8		1	11	5							5	13.56	12.29	5			
2.8		2	15	5							4	9.56	8.58	4			
2.8		3	21	5							5	14.35	13.26	5			
2.8		4	48	5							5	14.02	12.53	5			

CETIS Test Data Worksheet

Report Date: 02 Jul-26 10:23 (p 2 of 2)
 Test Code/ID: P260611.02 / 10-1566-9864

Conc-%	Code	Rep	Pos	# Exposed	1d Survival	2d Survival	3d Survival	4d Survival	5d Survival	6d Survival	7d Survival	Weight-mg Total	Weight-mg Tare	Pan Count	Total Females	Gravid Females	Notes
2.8		5	17	5							5	9.66	8.34	5			
2.8		6	44	5							5	12.96	12.16	5			
2.8		7	7	5							4	13.36	12.2	4			
2.8		8	40	5							5	13.7	12.35	5			
10		1	30	5							5	13.17	12.22	5			
10		2	46	5							5	14.11	13.06	5			
10		3	33	5							5	13.57	12.42	5			
10		4	8	5							5	15.39	13.95	5			
10		5	19	5							5	14.57	13.23	5			
10		6	18	5							5	14.08	13.03	5			
10		7	43	5							4	14.52	13.32	4			
10		8	41	5							5	9.87	8.66	5			
30		1	24	5							5	9.79	8.86	5			
30		2	34	5							5	13.31	11.96	5			
30		3	2	5							4	13.55	12.21	4			
30		4	50	5							5	14.89	13.62	5			
30		5	37	5							5	15.26	12.94	5			
30		6	42	5							5	14.3	12.91	5			
30		7	54	5							5	14.09	13.02	5			
30		8	28	5							5	14.22	12.86	5			
100		1	56	5							5	8.99	8.01	5			
100		2	16	5							5	15.26	14.19	5			
100		3	32	5							3	12.92	12.3	3			
100		4	45	5							5	14.36	13.32	5			
100		5	31	4							4	13.54	12.56	4			
100		6	6	5							5	13.39	12.22	5			
100		7	5	5							5	14.45	13.09	5			
100		8	38	5							5	14	12.72	5			

POWER STANDARD CALCULATIONS

Mysid Mean Growth (Dry Weight)per Survivor

Chronic Power Standard Calculation									
	average growth/survivor								
Replicate	1	2	3	4	5	6	7	8	Mean
CCEC (2.0)	0.263	0.246	0.338	0.235	0.256	0.254	0.256	0.304	0.269
Control	0.254	0.236	0.23	0.24	0.204	0.304	0.313	0.25	0.253875

Control Mean - CCEC Mean

-0.015125

Difference Divided by Control Mean

-0.05957656

Express as %

-6%

≤39% meets the power standard

Pass

GENERAL

Client	LOTT Water Alliance
Project	LOTT WET 2026
Project Number	PG2348
Project Manager	M. Bennett
Date Sample Received	6/11/2026
Test type	7 Day Chronic Toxicity with Mysid
Matrix	Liquid
Test Acceptability	≥ 80% average survival of control mysid Average dry weight is 0.20 mg or greater per surviving control mysids
Test Start Date	06/11/26
Test Species	<i>Americamysis bahia</i>
Organism Batch	SE061126.01
Organism Acquired	6/11/2026
Organism Acclimation	0
Organism Age	7 Days
Test Protocol	TOX 014
Test Location	Bath 3
Light Intensity	50-100 foot candles
Light Cycle	16L:8D
Water Description	0.45 um filtered seawater
Organisms per Replicate	5
Test Chamber Size	12 oz.
Exposure Volume	250 mL
Feeding Information	375 nauplii/chamber twice per day except Day 7
Test Dissolved Oxygen	≥ 4
Test Temperature	26 ± 1
Test Salinity	30 ± 2
Test pH	7.5 ± 1.5

Note: input lowest and highest decimal for temp

Test Parameters		
	Min	Max
DO	4.0	
Temp	25	27
Salinity	28	32
pH	6	9

TEST START TIME/INIT:

1540/sn/nl/eg

TEST END TIME/INIT:

1203 EM

CLIENT SAMPLE ID

LAB ID

Final Effluent #1	P260611.02
Final Effluent #2	P260612.02
Final Effluent #3	P260616.02

Concentrations

1	Control
2	Salt Control
3	2%
4	2.8%
5	10%
6	30%
7	100%
8	-
9	-

Food Batch ID

111935

CSMM Batch #

052626A

Copy and Past VALUES fr

Treatment	Rep	Chamber
Control	1	12
Control	2	55
Control	3	31
Control	4	32
Control	5	45
Control	6	22
Control	7	2
Control	8	16
Salt Control	1	49
Salt Control	2	17
Salt Control	3	9
Salt Control	4	43
Salt Control	5	38
Salt Control	6	27
Salt Control	7	10
Salt Control	8	56
2%	1	47
2%	2	40
2%	3	41
2%	4	21
2%	5	1
2%	6	39
2%	7	4
2%	8	34
2.8%	1	23
2.8%	2	19
2.8%	3	53
2.8%	4	48
2.8%	5	25
2.8%	6	46
2.8%	7	3
2.8%	8	8
10%	1	30
10%	2	33
10%	3	42
10%	4	7
10%	5	51
10%	6	29
10%	7	18
10%	8	11
30%	1	44
30%	2	5
30%	3	36
30%	4	6
30%	5	52
30%	6	54
30%	7	15
30%	8	37
100%	1	26
100%	2	14
100%	3	13
100%	4	50
100%	5	28
100%	6	20
100%	7	35
100%	8	24

7 Day Chronic WET Test

v.4	CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 014
	PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
	CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	<i>Americamysis bahia</i>
	LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Mysid

Test Parameters	
Salinity of Sample	0.169
Test Salinity	30

CSMM Batch Number
052626A

Sample Lab ID
P260611.02

Salinity Adjustment Multiplier	29.831
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Coarse salinity adjustment	
mLs. Sample*	18000.0
Grams CSMM	537.0

* Adjust volume so that it is at least the total volume of sample needed for all dilutions, see cell D16 on Dilutions Worksheet.

Fine Salinity Adjustment	
Salinity of coarse-adjusted Sample	25.37
Test Salinity	30
Ratio	1.18
Grams additional CSMM needed to reach target salinity	98.54946788

Final salinity	30
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Salinity Adjustment Date / Initials	Meter #
6/11/2026 TVL	7

Comments

7 Day Chronic WET Test

V.4	CLIENT	LOTT Water Alliance	DATE RECEIVED	6/12/26	PROTOCOL	TOX 014
	PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
	CLIENT SAMPLE ID	Final Effluent #2	TEST END DATE	6/18/26	SPECIES	<i>Americamysis bahia</i>
	LAB SAMPLE ID	P260612.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Mysid

Test Parameters	
Salinity of Sample	0.187
Test Salinity	30

CSMM Batch Number
052626B

Sample Lab ID
P260612.02

Salinity Adjustment Multiplier	29.813
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Coarse salinity adjustment	
mLs. Sample*	19000.0
Grams CSMM	566.4

* Adjust volume so that it is at least the total volume of sample needed for all dilutions, see cell D28 on Dilutions Worksheet.

Fine Salinity Adjustment	
Salinity of coarse-adjusted Sample	26.52
Test Salinity	30
Ratio	1.13
Grams additional CSMM needed to reach target salinity	74.79638009

Final salinity	30
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Salinity Adjustment Date / Initials	Meter #
6/12/2026 SK	7

Comments

7 Day Chronic WET Test

v.4

CLIENT	LOTT Water Alliance	DATE RECEIVED	6/16/26	PROTOCOL	TOX 014
PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
CLIENT SAMPLE ID	Final Effluent #3	TEST END DATE	6/18/26	SPECIES	<i>Americamysis bahia</i>
LAB SAMPLE ID	P260616.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Mysid

Test Parameters	
Salinity of Sample	0.23
Test Salinity	30

CSMM Batch Number
052626B

Sample Lab ID
P260616.02

Salinity Adjustment Multiplier	29.77
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Coarse salinity adjustment	
mLs. Sample*	19000.0
Grams CSMM	565.6

* Adjust volume so that it is at least the total volume of sample needed for all dilutions, see cell D28 on Dilutions Worksheet.

Fine Salinity Adjustment	
Salinity of coarse-adjusted Sample	26.25
Test Salinity	30
Ratio	1.14
Grams additional CSMM needed to reach target salinity	81.42857143

Final salinity	30
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Salinity Adjustment Date / Initials	Meter #
6/16/2026 SK	13

Comments

7 Day Chronic WET Test

V.4	CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 014
	PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
	CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	<i>Americamysis bahia</i>
	LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Mysid

Day of Test	Concentration	Vol. Effluent Sample Added (mL)	Vol. Diluent Added (mL)	Total Volume (mL)	Diluent Type	FSW
0	0%	0	2000.0	2000		
	Salt Control			2000		
	2%	40	1960.0	2000		
	2.8%	56	1944.0	2000		
	10%	200	1800.0	2000		
	30%	600	1400.0	2000		
	100%	2000	0.0	2000		
Total Volume Needed		2896				

Day of Test	Concentration	Vol. Effluent Sample Added (mL)	Vol. Diluent Added (mL)	Total Volume (mL)
1 - 6	0%	0	1600.0	1600
	Salt Control			1600
	2%	32	1568.0	1600
	2.8%	44.8	1555.2	1600
	10%	160	1440.0	1600
	30%	480	1120.0	1600
	100%	1600	0.0	1600
Total Volume Needed		2316.8		

Test Dilution Prep

Date	Balance ID	Sample ID (P#)	Water Batch ID	Initials	Comments
6/11/2026	7	P260611.02	FSW061026.01	SK	
6/12/2026	7	P260612.02	FSW061026.01	SK	
6/13/2026	7	P260612.02	FSW061126.01	EG	
6/14/2026	7	P260612.02	FSW061326.02	EM	
6/15/2026	7	p260612.02	FSW061326.02	sn	
6/16/2026	7	P260616.02	FSW061526.03	SK	
6/17/2026	7	P260616.02	FSW061626.01	SN	

v.4 CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 014
PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	Americamysis bahia
LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Mysid

		DO (mg/L)	TEMP (°C)	SALINITY (ppt)	pH	Comments
Concentration (%)		≥ 4	25 - 27	28 - 32	6 - 9	
Day 0 Stock Date 6/11/2026 Time 1458 Tech sn Meter # 10 Feed EG	Control	7.3	26.8	30	7.8	all dilutions were shaken to lower DO-SN
	Salt Control	7.2	25.0	30	8.1	
	2%	7.4	26.8	30	7.8	
	2.8%	7.3	26.9	30	7.8	
	10%	7.5	26.4	30	7.8	
	30%	7.8	26.3	30	7.8	
	100%	8.2	25.9	30	7.6	
Day 1 Rep 1 Date 6/12/2026 Time 1055 Tech EG Meter # 10	Control	6.2	25.7	30	7.7	
	Salt Control	6.2	25.5	30	8.0	
	2%	6.2	25.4	30	7.8	
	2.8%	6.1	25.5	30	7.8	
	10%	6.1	25.5	30	7.8	
	30%	5.9	25.5	30	7.8	
	100%	5.7	25.5	30	7.8	
Day 1 Renewal Stock Date 6/12/2026 Time 1550 Tech MS Meter # 10	Control	7.4	25.6	30	8.0	
	Salt Control	7.5	25.5	30	8.1	
	2%	7.4	25.5	30	7.9	
	2.8%	7.4	25.0	30	7.9	
	10%	7.4	26.3	30	7.9	
	30%	7.4	26.4	30	7.8	
	100%	8.2	25.8	30	7.6	
Day 2 Rep 2 Date 6/13/2026 Time 1044 Tech MM Meter # 10	Control	6.5	25.4	30	7.8	
	Salt Control	6.2	25.6	30	8.0	
	2%	6.2	25.5	30	7.8	
	2.8%	5.9	25.9	30	7.7	
	10%	5.9	25.5	30	7.8	
	30%	5.9	25.7	30	7.8	
	100%	5.7	25.9	30	7.8	
Day 2 Renewal Stock Date 6/13/2026 Time 1055 Tech MM Meter # 10	Control	7.3	26.8	30	7.9	
	Salt Control	7.4	26.4	30	8.0	
	2%	7.6	26.9	30	7.9	
	2.8%	7.6	26.8	30	7.9	
	10%	7.6	26.5	30	7.9	
	30%	7.8	26.4	30	7.8	
	100%	8.1	26.1	30	7.6	
Day 3 Rep 3 Date 6/14/2026 Time 9:38 Tech KS Meter # 10	Control	6.1	25.4	29	7.7	
	Salt Control	5.8	25.5	30	7.9	
	2%	5.8	24.9	30	7.7	
	2.8%	6.0	25.2	30	7.7	
	10%	6.1	25.0	29	7.8	
	30%	6.0	25.1	30	7.8	
	100%	6.0	25.1	30	7.9	

v.4 CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 014
PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	Americamysis bahia
LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Mysid

		DO (mg/L)	TEMP (°C)	SALINITY (ppt)	pH	Comments
Concentration (%)		≥ 4	25 - 27	28 - 32	6 - 9	
Day 3 Renewal Stock Date 6/14/2026 Time 9:50 Tech KS Meter # 10	Control	7.5	26.7	30	7.8	all dilutions were shaken to lower DO-KS
	Salt Control	7.2	25.8	30	8.1	
	2%	7.5	26.0	30	7.9	
	2.8%	7.4	25.8	30	7.8	
	10%	7.8	25.8	30	7.8	
	30%	7.7	25.7	30	7.7	
	100%	8.4	25.8	30	7.6	
Day 4 Rep 4 Date 6/15/2026 Time 818 Tech EM Meter # 10	Control	5.7	25.1	30	7.6	
	Salt Control	5.8	25.4	31	7.9	
	2%	5.7	25.7	30	7.7	
	2.8%	5.0	25.5	30	7.6	
	10%	5.9	25.5	30	7.8	
	30%	5.8	25.8	30	7.7	
	100%	5.3	25.2	30	7.9	
Day 4 Renewal Stock Date 6/15/2026 Time 951 Tech EM Meter # 10	Control	7.4	25.8	30	7.8	
	Salt Control	7.4	25.8	30	8.0	
	2%	7.6	26.0	30	7.8	
	2.8%	7.6	26.0	30	7.8	
	10%	7.7	26.1	30	7.8	
	30%	8.1	26.7	30	7.7	
	100%	9.0	26.1	30	7.6	
Day 5 Rep 5 Date 6/16/2026 Time 844 Tech SN Meter # 10	Control	6.5	24.9	30	7.7	
	Salt Control	6.6	24.6	31	8.0	
	2%	6.3	25.2	30	7.8	
	2.8%	6.4	25.1	30	7.8	
	10%	6.3	25.1	30	7.8	
	30%	6.4	25.0	30	7.8	
	100%	6.5	25.0	30	7.9	
Day 5 Renewal Stock Date 6/16/2026 Time 1457 Tech SN Meter # 10	Control	7.4	24.9	30	7.8	
	Salt Control	7.4	25.1	30	8.0	
	2%	7.4	25.9	30	7.8	
	2.8%	7.5	25.8	30	7.8	
	10%	7.4	25.3	30	7.8	
	30%	7.5	25.4	30	7.7	
	100%	8.3	24.9	29	7.5	
Day 6 Rep 6 Date 6/17/2026 Time 756 Tech EM Meter # 10	Control	6.2	25.1	30	7.7	
	Salt Control	6.3	25.2	31	7.9	
	2%	6.3	25.3	30	7.8	
	2.8%	6.0	25.4	30	7.7	
	10%	6.0	25.3	30	7.7	
	30%	6.1	25.1	31	7.8	
	100%	5.6	25.2	30	7.8	

v.4 CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 014
PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	<i>Americamysis bahia</i>
LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Mysid

		DO (mg/L)	TEMP (°C)	SALINITY (ppt)	pH	Comments
Concentration (%)		≥ 4	25 - 27	28 - 32	6 - 9	
Day 6 Renewal Stock Date 6/17/2026 Time 1139 Tech LW Meter # 10	Control	7.6	25.2	30	7.8	
	Salt Control	7.6	24.8	31	8.0	
	2%	7.7	25.7	30	7.8	
	2.8%	8.0	25.9	30	7.7	
	10%	7.9	25.0	30	7.8	
	30%	7.6	25.3	30	7.8	
	100%	9.0	26.2	29	7.5	
Day 7 Rep 7 Date 6/18/2026 Time 828 Tech EM Meter # 10	Control	5.7	25.6	30	7.6	
	Salt Control	5.7	25.6	31	7.8	
	2%	5.9	25.5	30	7.7	
	2.8%	5.9	25.6	30	7.7	
	10%	5.9	25.1	30	7.7	
	30%	5.9	25.3	30	7.7	
	100%	5.7	25.2	30	7.8	

CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 014
PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	Americamysis bahia
LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

Abbreviation Key:

NB = No Body

FB = Found Body

ST = Stranded

7 Day Chronic Toxicity with Mysid

				Day 1			Day 2			Day 3			Day 4			Day 5			Day 6			Day 7								
		Date		06/12/26		Date		06/13/26		Date		06/14/26		Date		06/15/26		Date		06/16/26		Date		06/17/26		Date		06/18/26		
		Time		1552		Time		1435		Time		11:24		Time		1014		Time		1600		Time		1237		Time		1203		
		Tech		MM/MS/RW		Tech		EG		Tech		KS		Tech		EM		Tech		KS/EM		Tech		TVL		Tech		EM		
Concentration (%)	REP	# Initiated	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Comments
Control	1	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	3	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	4	5	5	0		5	0		4	0	1nb	4	0		4	0		4	0		4	0		4	0		4	0		
	5	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	6	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	7	5	5	0		5	0		5	0		4	1		4	0		4	0		4	0		4	0		4	0		
	8	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
Salt Control	1	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	3	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	4	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	5	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	6	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	7	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	8	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
2%	1	5	5	0		5	0		5	0		4	0	1NB	4	0		4	0		4	0		4	0		4	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	3	5	5	0		4	0	1NB	4	0		4	0		4	0		4	0		4	0		4	0		4	0		
	4	5	6	0	1FB	6	0		6	0		6	0		6	0		6	0		6	0		6	0		6	0		
	5	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	6	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	7	5	5	0		4	0	1NB	4	0		4	0		4	0		4	0		4	0		4	0		4	0		
	8	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
2.8%	1	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0	1NB	4	0		4	0		
	3	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	4	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	5	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	6	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	7	5	5	0		4	0	1NB	4	0		4	0		4	0		4	0		4	0		4	0		4	0		
	8	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
10%	1	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	3	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	4	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	5	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	6	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	7	5	4	1		4	0		4	0		4	0		4	0		4	0		4	0		4	0		4	0		
	8	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
30%	1	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	3	5	5	0		5	0		5	0		5	0		5	0		5	0		4	0	1NB	4	0		4	0		
	4	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	5	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	6	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	7	5	5	0		5	0		4	0	1nb	5	0	1FB	5	0		5	0		5	0		5	0		5	0		
	8	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
100%	1	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	3	5	4	1		3	1		3	0		3	0		3	0		3	0		3	0		3	0		3	0		
	4	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	5	5	4	0	1NB	5	0	1FB	5	0		4	1	1AL	4	0		4	0		4	0		4	0		4	0		
	6	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	7	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	8	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		5	0		
Feed (Init.)	AM	SK			EG			KS			KS			SK			SN			NONE										
375 nauplii/chamber twice per day except Day 7	PM	SN			EG			KS			RW			KS			NL			NONE										

7 Day Chronic WET Test

v.4	CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 014
	PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
	CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	Americamysis bahia
	LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Mysid

Concentration (%)	REP	Boat Number	Weight Empty Boat (mg)	Weight Boat & Animals (mg)	Pan Count	Comments
Control	1	1	8.75	10.02	5	
	2	2	13.54	14.72	5	
	3	3	12.22	13.37	5	
	4	4	12.41	13.37	4	
	5	5	8.67	9.69	5	
	6	6	8.3	9.82	5	
	7	7	12.7	13.95	4	
	8	8	9.5	10.75	5	
Salt Control	1	9	13.01	14.39	5	
	2	10	13.02	14.41	5	
	3	11	13.24	14.39	5	
	4	12	12.2	13.49	5	
	5	13	12.27	13.94	5	
	6	14	12.2	13.59	5	
	7	15	8.62	9.71	5	
	8	16	12.49	13.66	5	
2%	1	17	12.36	13.41	4	
	2	18	12.2	13.43	5	
	3	19	8.5	9.85	4	
	4	20	12.19	13.6	6	
	5	21	8.09	9.37	5	
	6	22	12.28	13.55	5	
	7	23	12.42	13.48	4	
	8	24	12.59	14.11	5	
2.8%	1	25	12.29	13.56	5	
	2	26	8.58	9.56	4	
	3	27	13.26	14.35	5	
	4	28	12.53	14.02	5	
	5	29	8.34	9.66	5	
	6	30	12.16	12.96	5	
	7	31	12.2	13.36	4	
	8	32	12.35	13.7	5	
10%	1	33	12.22	13.17	5	
	2	34	13.06	14.11	5	
	3	35	12.42	13.57	5	
	4	36	13.95	15.39	5	
	5	37	13.23	14.57	5	
	6	38	13.03	14.08	5	
	7	39	13.32	14.52	4	
	8	40	8.66	9.87	5	

7 Day Chronic WET Test

CLIENT	LOTT Water Alliance	DATE RECEIVED	6/11/26	PROTOCOL	TOX 014
PROJECT	LOTT WET 2026	TEST START DATE	6/11/26	PROJECT MANAGER	M. Bennett
CLIENT SAMPLE ID	Final Effluent #1	TEST END DATE	6/18/26	SPECIES	Americamysis bahia
LAB SAMPLE ID	P260611.02	MATRIX	Liquid		

7 Day Chronic Toxicity with Mysid

Concentration (%)	REP	Boat Number	Weight Empty Boat (mg)	Weight Boat & Animals (mg)	Pan Count	Comments
30%	1	41	8.86	9.79	5	
	2	42	11.96	13.31	5	
	3	43	12.21	13.55	4	
	4	44	13.62	14.89	5	
	5	45	12.94	15.26	5	
	6	46	12.91	14.3	5	
	7	47	13.02	14.09	5	
	8	48	12.86	14.22	5	
100%	1	49	8.01	8.99	5	
	2	50	14.19	15.26	5	
	3	51	12.3	12.92	3	
	4	52	13.32	14.36	5	
	5	53	12.56	13.54	4	
	6	54	12.22	13.39	5	
	7	55	13.09	14.45	5	
	8	56	12.72	14	5	
	1	X1	12.83			
	2	X2	8.2			
			Oven Event 1	Oven Event 2		
Oven ID:			Beelzebub	Beelzebub		
Date/Time/Initials In Oven:			6/3/26 1445 EM	6/18/26 1336 EM		
Oven Temp °C:			60	60.00		
Date/Time/Initials Out Oven into Dessicator:			6/4/26 1546 MM	6/19/26 1550 SN		
Date/Time/Initials Weighed:			6/17/26 1020 EM	6/20/26 1325 NL		
Balance ID:			3.00	3.00		

ORGANISM RECEIPT LOG

Date: 6/11/26		Time: 1200		Batch No. SE061126.01			
Organism: Americamysis bahia (mysis)							
Source / Supplier: Spheros Environmental							
No. Ordered: 960		No. Received: 960 +		Source Batch: Collection date, hatch date, etc.): Release date: 6/4/26			
Condition of Organisms: Good				Approximate Size or Age: (Days from hatch, life stage, size class, etc.): Juvenile			
Shipper: FedEx				B of L (Tracking No.) 8728 9280 7743			
Condition of Container: Good				Received By: TVL			
Container	D.O. (mg/L)	Temp. (°C)	Cond. or (Sal.) (Include Units)	pH (Units)	# Dead	% Dead*	Tech. (Initials)
A	6.5	25.7	30	7.1	0	/	TVL
B	6.3	25.7	30	7.1	0	/	TVL
*if >10% contact lab manager							
Notes:							

Organism Information

Species	<i>Americamysis bahia</i> (formerly <i>Mysidopsis bahia</i>)		
Release Date	06/04/2026	Life Stage	Juvenile
Quantity	960+	Lot Number	MS-7977
	Aquatic Indicators, St. Augustine, FL		
Source of Species	☒ Laboratory Cultured, ☐ Hatchery Reared, ☐ Field Collected, ☐ Other		

Culture / Holding Water Quality

Conductance	NA	Salinity (‰)	30 ppt
Alkalinity	50-70 mg CaCO ₃ /L	Hardness	NA
Temp (°C)	25±1°C	Other: _____	
Feeding	<i>Artemia</i> nauplii	Photoperiod	16L:8D

Shipment Information

Sold to	PGB
Carrier	Fedex
Tracking Number	872892807743
Shipment Date	06/10/26

Laboratory receipt "Stamp" goes here

APPENDIX A2.2

***AMERICAMYSIS BAHIA* (MYSID) 7-DAY SURVIVAL AND GROWTH TEST**

REFERENCE TOXICANT DATA SHEETS

Mysidopsis 7-d Survival, Growth and Fecundity Test

All Matching Labs

Test Type: Growth-Survival-Fec (7d)

Organism: Americamysis bahia

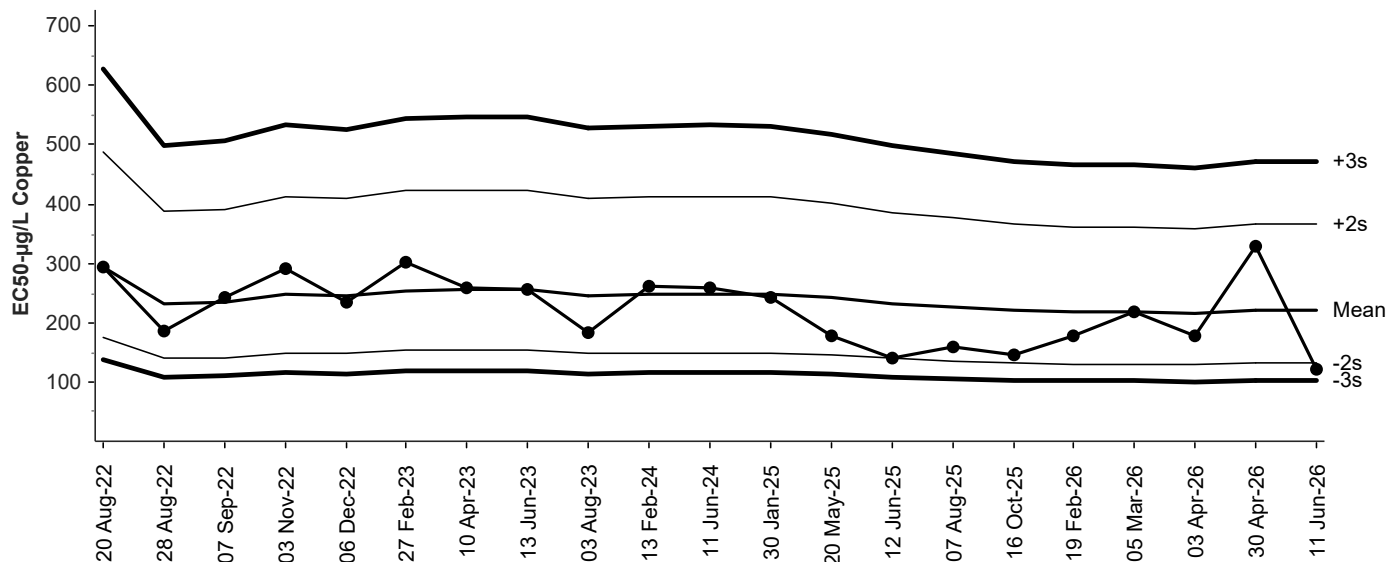
Material: Copper

Protocol: EPA/821/R-02-014 (2002)

Endpoint: 7d Proportion Survived

Source: Reference Toxicant-REF

Mysidopsis 7-d Survival, Growth and Fecundity Test



Lognormal Cumulative Mean Plot

Mean: 219.9

Count: 20

-2s Warning Limit: 132

-3s Action Limit: 103

Sigma: NA

CV: 25.80%

+2s Warning Limit: 366

+3s Action Limit: 472

Quality Control Data

Point	Year	Month	Day	Time	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID	Laboratory
1	2022	Aug	20	10:40	292.7	72.83	1.126			01-4401-6269	16-9819-5130	EcoAnalysts
2			28	13:09	185.4	-34.47	-0.6708			04-1946-2277	12-2436-9224	EcoAnalysts
3		Sep	7	13:34	241.5	21.64	0.3692			18-0154-0991	02-5982-4853	EcoAnalysts
4		Nov	3	13:54	292	72.13	1.116			20-7272-6779	07-6122-8250	EcoAnalysts
5		Dec	6	15:51	233.7	13.89	0.2409			08-6777-4627	08-6463-0470	EcoAnalysts
6	2023	Feb	27	15:02	302.5	82.64	1.255			17-9014-8001	16-9229-9852	EcoAnalysts
7		Apr	10	17:30	258.8	38.96	0.6418			04-8759-0090	09-2424-8749	EcoAnalysts
8		Jun	13	18:05	255.1	35.23	0.5846			11-7127-0699	01-4524-1817	EcoAnalysts
9		Aug	3	15:33	184.8	-35.11	-0.6845			21-0880-2523	14-9844-3951	EcoAnalysts
10	2024	Feb	13	14:40	260.3	40.47	0.6647			14-4204-2247	03-3460-5424	EcoAnalysts
11		Jun	11	17:13	258.8	38.96	0.6418			06-4568-3295	18-6468-4033	EcoAnalysts
12	2025	Jan	30	13:41	241.5	21.64	0.3692			00-5191-5740	19-0121-5560	EcoAnalysts
13		May	20	16:47	177.6	-42.23	-0.8391			12-7933-0764	13-6902-0313	EcoAnalysts
14		Jun	12	14:05	140.3	-79.55	-1.767			13-9813-6557	01-9464-0633	EcoAnalysts
15		Aug	7	15:20	158.4	-61.49	-1.291			16-3240-2586	15-8097-2790	EcoAnalysts
16		Oct	16	15:15	145.8	-74.05	-1.615			17-2178-4608	16-3548-4727	EcoAnalysts
17	2026	Feb	19	16:41	178.6	-41.21	-0.8166			08-9046-1962	20-2371-9375	Spheros Environmental
18		Mar	5	17:20	218.1	-1.716	-0.03082			15-3127-2697	12-0467-2367	Spheros Environmental
19		Apr	3	14:30	176.8	-43.02	-0.8567			11-7325-1970	00-6790-0595	Spheros Environmental
20			30	15:22	329.9	110.1	1.597			11-9454-0169	20-7088-0977	Spheros Environmental
21		Jun	11	14:28	121.2	-98.64	-2.342	(-)		05-0417-7501	14-0575-1340	Spheros Environmental

Mysidopsis 7-d Survival, Growth and Fecundity Test

All Matching Labs

Test Type: Growth-Survival-Fec (7d)

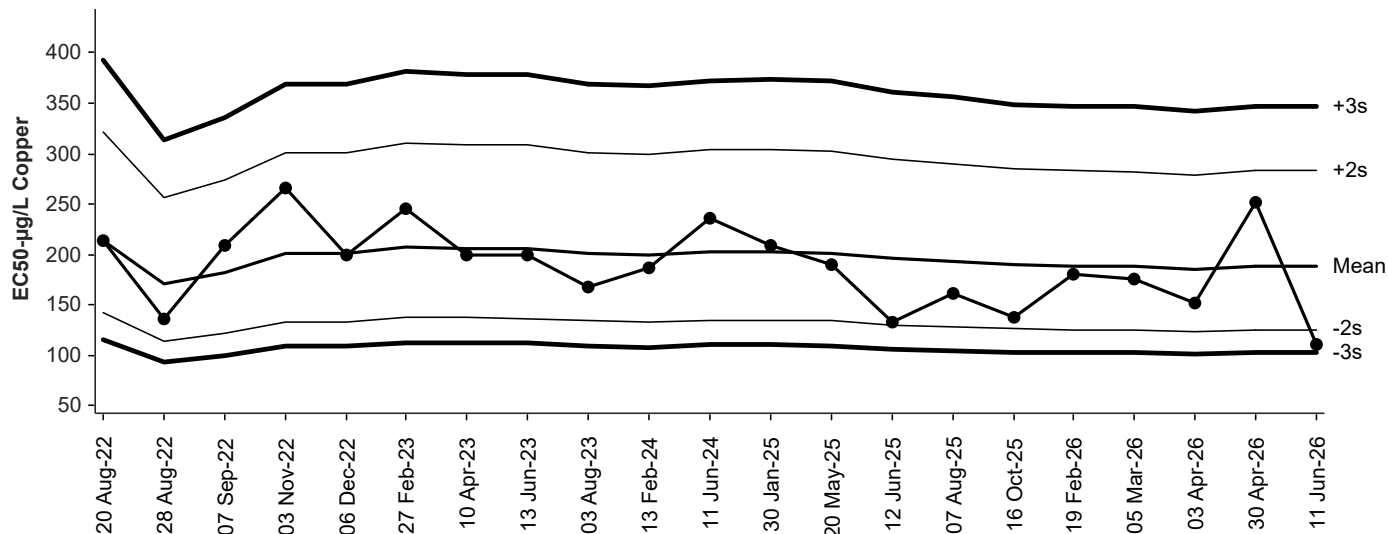
Organism: Americamysis bahia

Material: Copper

Protocol: EPA/821/R-02-014 (2002)

Endpoint: Mean Dry Biomass-mg

Source: Reference Toxicant-REF

Mysidopsis 7-d Survival, Growth and Fecundity Test
Mean Dry Biomass-mg Endpoint

Lognormal Cumulative Mean Plot

Mean: 188.9 Count: 20 -2s Warning Limit: 126 -3s Action Limit: 103
 Sigma: NA CV: 20.50% +2s Warning Limit: 283 +3s Action Limit: 347

Quality Control Data

Point	Year	Month	Day	Time	QC Data	Delta	Sigma	Warning	Action	Test ID	Analysis ID	Laboratory
1	2022	Aug	20	10:40	213.8	24.96	0.6109			01-4401-6269	10-4166-9605	EcoAnalysts
2			28	13:09	136	-52.88	-1.617			04-1946-2277	06-3356-9952	EcoAnalysts
3		Sep	7	13:34	209.5	20.65	0.5107			18-0154-0991	06-6736-0182	EcoAnalysts
4		Nov	3	13:54	265.2	76.39	1.672			20-7272-6779	18-6450-7829	EcoAnalysts
5		Dec	6	15:51	199.4	10.54	0.2672			08-6777-4627	17-5306-9671	EcoAnalysts
6	2023	Feb	27	15:02	245.7	56.86	1.295			17-9014-8001	19-6476-3661	EcoAnalysts
7		Apr	10	17:30	199.8	10.9	0.2762			04-8759-0090	06-2698-9039	EcoAnalysts
8		Jun	13	18:05	199.7	10.86	0.2752			11-7127-0699	05-8075-4244	EcoAnalysts
9		Aug	3	15:33	168.2	-20.62	-0.5688			21-0880-2523	06-6104-2414	EcoAnalysts
10	2024	Feb	13	14:40	186.9	-1.954	-0.05117			14-4204-2247	00-0305-3310	EcoAnalysts
11		Jun	11	17:13	235.1	46.26	1.078			06-4568-3295	12-5447-0312	EcoAnalysts
12	2025	Jan	30	13:41	208.2	19.39	0.481			00-5191-5740	08-1652-3484	EcoAnalysts
13		May	20	16:47	189.7	0.8779	0.02282			12-7933-0764	03-3314-6978	EcoAnalysts
14		Jun	12	14:05	133.1	-55.79	-1.723			13-9813-6557	00-5201-4128	EcoAnalysts
15		Aug	7	15:20	161	-27.91	-0.7869			16-3240-2586	12-0558-9580	EcoAnalysts
16		Oct	16	15:15	137.9	-50.96	-1.548			17-2178-4608	06-9695-9104	EcoAnalysts
17	2026	Feb	19	16:41	180.8	-8.089	-0.2154			08-9046-1962	01-4728-8547	Spheros Environmental
18		Mar	5	17:20	176.5	-12.37	-0.3335			15-3127-2697	10-4741-5206	Spheros Environmental
19		Apr	3	14:30	151.3	-37.55	-1.091			11-7325-1970	03-3840-8011	Spheros Environmental
20			30	15:22	251.8	62.97	1.416			11-9454-0169	14-0484-8322	Spheros Environmental
21		Jun	11	14:28	110.1	-78.77	-2.656	(-)		05-0417-7501	08-8771-5858	Spheros Environmental

CETIS Summary Report

Report Date: 30 Jun-26 13:19 (p 1 of 2)
Test Code/ID: R240207.234 / 05-0417-7501

Mysidopsis 7-d Survival, Growth and Fecundity Test					Spheros Environmental	
Batch ID:	13-2644-7841	Test Type:	Growth-Survival-Fec (7d)	Analyst:	Michelle Bennett	
Start Date:	11 Jun-26 14:28	Protocol:	EPA/821/R-02-014 (2002)	Diluent:	Laboratory Seawater	
Ending Date:	18 Jun-26 10:47	Species:	Americamysis bahia	Brine:	Not Applicable	
Test Length:	6d 20h	Taxon:	Malacostraca	Source:	Spheros Env. Florida	Age: 7D
Sample ID:	17-6437-3742	Code:	R240207.234	Project:	Reference Toxicant	
Sample Date:	07 Feb-24	Material:	Copper	Source:	Reference Toxicant	
Receipt Date:	07 Feb-24	CAS (PC):		Station:	R240207.234	
Sample Age:	855d 14h	Client:	Internal Lab			

Multiple Comparison Summary						
Analysis ID	Endpoint	Comparison Method	NOEL	LOEL	TOEL	PMSD
11-7535-8330	7d Proportion Survived	Steel Many-One Rank Sum Test	62.5	125	88.39	10.8%
13-3808-2214	Mean Dry Biomass-mg	Dunnett Multiple Comparison Test	62.5	125	88.39	14.7%
12-8447-1789	Mean Dry Weight-mg	Bonferroni Adj t Test	125	250	176.8	17.6%

Point Estimate Summary						
Analysis ID	Endpoint	Point Estimate Method	Level	µg/L	95% LCL	95% UCL
14-0575-1340	7d Proportion Survived	Spearman-Kärber	EC50	121.2	108.2	135.8
08-8771-5858	Mean Dry Biomass-mg	Linear Interpolation (ICPIN)	IC50	110.1	96.94	133.9
11-8735-5765	Mean Dry Weight-mg	Linear Interpolation (ICPIN)	IC50	>250	---	---

Test Acceptability				TAC Limits			
Analysis ID	Endpoint	Attribute	Test Stat	Lower	Upper	Overlap	Decision
11-7535-8330	7d Proportion Survived	Control Resp	0.975	0.8	>>	Yes	Passes Criteria
14-0575-1340	7d Proportion Survived	Control Resp	0.975	0.8	>>	Yes	Passes Criteria
08-8771-5858	Mean Dry Biomass-mg	Control Resp	0.2627	0.2	>>	Yes	Passes Criteria
13-3808-2214	Mean Dry Biomass-mg	Control Resp	0.2627	0.2	>>	Yes	Passes Criteria
13-3808-2214	Mean Dry Biomass-mg	PMSD	0.1473	0.11	0.37	Yes	Passes Criteria

7d Proportion Survived Summary											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	8	0.9750	0.9159	1.0000	0.8000	1.0000	0.0250	0.0707	7.25%	0.00%
62.5		8	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-2.56%
125		8	0.4250	0.2855	0.5645	0.2000	0.6000	0.0590	0.1669	39.27%	56.41%
250		8	0.0250	0.0000	0.0841	0.0000	0.2000	0.0250	0.0707	282.84%	97.44%
500		8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	---	100.00%
1000		8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	---	100.00%

Mean Dry Biomass-mg Summary											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	8	0.2627	0.2355	0.29	0.214	0.302	0.01151	0.03255	12.39%	0.00%
62.5		8	0.2308	0.202	0.2595	0.188	0.304	0.01215	0.03438	14.90%	12.18%
125		8	0.109	0.06604	0.152	0.044	0.198	0.01817	0.05138	47.14%	58.52%
250		8	0.006	-0.008188	0.02019	0	0.048	0.006	0.01697	282.84%	97.72%
500		8	0	0	0	0	0	0	0	---	100.00%
1000		8	0	0	0	0	0	0	0	---	100.00%

Mean Dry Weight-mg Summary											
Conc-µg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	8	0.27	0.244	0.296	0.214	0.302	0.01101	0.03115	11.54%	0.00%
62.5		8	0.2308	0.202	0.2595	0.188	0.304	0.01215	0.03438	14.90%	14.54%
125		8	0.2577	0.204	0.3114	0.175	0.335	0.02272	0.06427	24.94%	4.55%
250		1	0.24			0.24	0.24	---	---	---	11.11%

CETIS Summary Report

Report Date: 30 Jun-26 13:19 (p 2 of 2)
 Test Code/ID: R240207.234 / 05-0417-7501

Mysidopsis 7-d Survival, Growth and Fecundity Test

Spheros Environmental

7d Proportion Survived Detail

MD5: 93E19F4B6D03E366E55A5540907E2D37

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	D	1.0000	1.0000	1.0000	1.0000	1.0000	0.8000	1.0000	1.0000
62.5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
125		0.4000	0.6000	0.4000	0.2000	0.2000	0.6000	0.4000	0.6000
250		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2000	0.0000
500		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
1000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mean Dry Biomass-mg Detail

MD5: 820608EB6A548FE748F7252161CED970

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	D	0.298	0.28	0.302	0.234	0.276	0.232	0.214	0.266
62.5		0.24	0.238	0.188	0.304	0.232	0.224	0.206	0.214
125		0.134	0.148	0.086	0.044	0.066	0.198	0.07	0.126
250		0	0	0	0	0	0	0.048	0
500		0	0	0	0	0	0	0	0
1000		0	0	0	0	0	0	0	0

Mean Dry Weight-mg Detail

MD5: 3C2CB3A82B8353B8C0978C6685BFDF66

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	D	0.298	0.28	0.302	0.234	0.276	0.29	0.214	0.266
62.5		0.24	0.238	0.188	0.304	0.232	0.224	0.206	0.214
125		0.335	0.2467	0.215	0.22	0.33	0.33	0.175	0.21
250		---	---	---	---	---	---	0.24	---
500		---	---	---	---	---	---	---	---
1000		---	---	---	---	---	---	---	---

7d Proportion Survived Binomials

Conc-µg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	D	5/5	5/5	5/5	5/5	5/5	4/5	5/5	5/5
62.5		5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
125		2/5	3/5	2/5	1/5	1/5	3/5	2/5	3/5
250		0/5	0/5	0/5	0/5	0/5	0/5	1/5	0/5
500		0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5
1000		0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5

CETIS Test Data Worksheet

Report Date: 30 Jun-26 13:19 (p 1 of 2)
Test Code/ID: R240207.234 / 05-0417-7501

Mysidopsis 7-d Survival, Growth and Fecundity Test

Spheros Environmental

Start Date: 11 Jun-26 14:28 Species: Americamysis bahia Sample Code: R240207.234
End Date: 18 Jun-26 10:47 Protocol: EPA/821/R-02-014 (2002) Sample Source: Reference Toxicant
Sample Date: 07 Feb-24 Material: Copper Sample Station: R240207.234

Conc-µg/L	Code	Rep	Pos	# Exposed	1d Survival	2d Survival	3d Survival	4d Survival	5d Survival	6d Survival	7d Survival	Weight-mg Total	Weight-mg Tare	Pan Count	Total Females	Gravid Females	Notes
0	D	1	37	5							5	14.92	13.43	5			
0	D	2	24	5							5	10.66	9.26	5			
0	D	3	17	5							5	14.62	13.11	5			
0	D	4	5	5							5	13.27	12.1	5			
0	D	5	38	5							5	14.3	12.92	5			
0	D	6	21	5							4	13.49	12.33	4			
0	D	7	35	5							5	14.75	13.68	5			
0	D	8	27	5							5	13.67	12.34	5			
62.5		1	46	5							5	14.96	13.76	5			
62.5		2	30	5							5	13.67	12.48	5			
62.5		3	33	5							5	13.33	12.39	5			
62.5		4	13	5							5	14.52	13	5			
62.5		5	42	5							5	9.47	8.31	5			
62.5		6	26	5							5	13.56	12.44	5			
62.5		7	44	5							5	13.36	12.33	5			
62.5		8	32	5							5	14.05	12.98	5			
125		1	43	5							2	13.99	13.32	2			
125		2	2	5							3	12.92	12.18	3			
125		3	11	5							2	13.59	13.16	2			
125		4	31	5							1	12.72	12.5	1			
125		5	41	5							1	13.76	13.43	1			
125		6	34	5							3	10.1	9.11	3			
125		7	18	5							2	13.35	13	2			
125		8	9	5							3	10.1	9.47	3			
250		1	23	5							0	0	0				
250		2	20	5							0	0	0				
250		3	6	5							0	0	0				
250		4	12	5							0	0	0				

CETIS Test Data Worksheet

Report Date: 30 Jun-26 13:19 (p 2 of 2)
Test Code/ID: R240207.234 / 05-0417-7501

Conc-µg/L	Code	Rep	Pos	# Exposed	1d Survival	2d Survival	3d Survival	4d Survival	5d Survival	6d Survival	7d Survival	Weight-mg Total	Weight-mg Tare	Pan Count	Total Females	Gravid Females	Notes
250		5	10	5							0	0	0				
250		6	22	5							0	0	0				
250		7	40	5							1	12.6	12.36	1			
250		8	45	5							0	0	0				
500		1	15	5							0	0	0				
500		2	47	5							0	0	0				
500		3	4	5							0	0	0				
500		4	48	5							0	0	0				
500		5	29	5							0	0	0				
500		6	14	5							0	0	0				
500		7	39	5							0	0	0				
500		8	1	5							0	0	0				
1000		1	16	5							0	0	0				
1000		2	8	5							0	0	0				
1000		3	7	5							0	0	0				
1000		4	28	5							0	0	0				
1000		5	19	5							0	0	0				
1000		6	3	5							0	0	0				
1000		7	36	5							0	0	0				
1000		8	25	5							0	0	0				

Version V.1

GENERAL

Client	Internal
Associated Test	Various
Compound	Copper Chloride
Toxicant	Copper
Test Type	Reference Toxicant
Test type	7 Day Chronic Toxicity with Mysid
Matrix	Liquid
Test Acceptability	≥ 80% average survival of control mysid Average dry weight is 0.20 mg or greater per surviving control mysids
Test Start Date	06/11/26
Test Species	Americamysis bahia
Organism Batch	SE061126.01
Organism Acquired	6/11/2026
Organism Acclimation	0
Organism Age	7 Days
Test Protocol	TOX 014 / TOX 099
Test Location	Bath 3
Light Intensity	50-100 foot candles
Light Cycle	16L:8D
Water Description	0.45 um filtered seawater
Organisms per Replicate	5
Test Chamber Size	12 oz.
Exposure Volume	250 mL
Feeding Information	375 nauplii/chamber twice per day except Day 7
Test Dissolved Oxygen	≥ 4
Test Temperature	26 ± 1
Test Salinity	30 ± 2
Test pH	7.5 ± 1.5

Note: input lowest and highest decimal for temp

Test Parameters		
	Min	Max
DO	4	
Temp	25	27
Salinity	28	32
pH	6	9

TEST START TIME/INIT:

1428 SN/EG (EM)

TEST END TIME/INIT:

1047 TVL

REFERENCE TOXICANT TEST ID

LOT #

R240207.234

BCCH9104

Concentrations (µg/L)

1	Control
2	62.5
3	125
4	250
5	500
6	1000
7	.
8	.
9	.

Food Batch ID

111935

CSMM Batch #

52626.01

Copy and Past VALUES f

Treatment	Rep	Chamber
Control	1	32
Control	2	41
Control	3	46
Control	4	25
Control	5	13
Control	6	15
Control	7	17
Control	8	31
62.5	1	16
62.5	2	7
62.5	3	28
62.5	4	36
62.5	5	26
62.5	6	8
62.5	7	44
62.5	8	33
125	1	37
125	2	40
125	3	48
125	4	29
125	5	5
125	6	35
125	7	30
125	8	38
250	1	6
250	2	42
250	3	12
250	4	19
250	5	3
250	6	47
250	7	4
250	8	24
500	1	23
500	2	45
500	3	14
500	4	39
500	5	11
500	6	1
500	7	10
500	8	9
1000	1	20
1000	2	18
1000	3	21
1000	4	34
1000	5	43
1000	6	27
1000	7	2
1000	8	22

7 Day Chronic WET Test

v.1	CLIENT	Internal	TEST TYPE	Reference Toxicant	PROTOCOL	TOX 014 / TOX 099
	ASSOCIATED TEST	Various	TEST START DATE	6/11/26	TOXICANT	Copper
	REF TOX ID	R240207.234	TEST END DATE	6/18/26	SPECIES	Americamysis bahia
	LOT #	BCCH9104	MATRIX	Liquid		

7 Day Chronic Toxicity with Mysid

Dilution Preparation (Serial dilute by 50%)

CuCl ₂ *2H ₂ O Stock Solution (µg/L Cu)	Target Stock Solution Conc. (µg/L)	Volume of Diluent (mL)	Amt. of Toxicant (mL)
400,000	1000	4000	10.0
400,000	500	4000	5.0
400,000	250	4000	2.5

Test Dilution Prep

Date	Balance ID	Water Batch ID	Initials	Highest Concentration Prepared	Comments
6/11/2026	7	FSW061026.01	TVL	1000	
6/12/2026	7	FSW061026.01	SK	1000	
6/13/2026	7	FSW061126.01	EG	250	
6/14/2026	7	FSW061326.02	EM	250	
6/15/2026	7	FSW061326.02	sn	250	
6/16/2026	7	FSW061526.03	SN	250	
6/17/2026	7	FSW061626.01	SN	250	

Water Quality

		Concentration (µg/L)	DO (mg/L)	TEMP (°C)	SALINITY	pH
			4	25 - 27	30 ± 2	6 - 9
Day 0 (Stock)		Control	7.8	25.3	30	7.8
Date	6/11/2026	62.5	7.9	25.4	30	7.8
Time	9:37	125	7.9	25.5	30	7.8
Tech	EG	250	7.9	25.4	30	7.8
Meter #	10	500	7.9	25.8	30	7.8
Feed (initials)		1000	7.8	25.4	30	7.8
Temperature	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
Meter #	T33	T50	T45	T50	T43	T45
Old	25.3	25.8	25.4	25.8	25.3	25.6
New	24.6	25.8	25.9	26.3	25.0	26.1
Tech	SN	MM	EM	EM	SN	LW
Day 7		Control	6.2	25.4	31	7.7
Replicate #	7	62.5	6.2	25.5	30	7.7
Date	6/18/2026	125	6.2	25.8	30	7.7
Time	815	250	6.4	25.8	30	7.8
Tech	EM	500				
Meter #	10	1000				

Comments

CLIENT	Internal	TEST TYPE	Reference Toxicant	PROTOCOL	TOX 014 / TOX 099
ASSOCIATED TEST	Various	TEST START DATE	6/11/26	TOXICANT	Copper
REF TOX ID	R240207.234	TEST END DATE	6/18/26	SPECIES	Americamysis bahia
LOT #	BCCH9104	MATRIX	Liquid		

Abbreviation Key:

NB = No Body

FB = Found Body

ST = Stranded

7 Day Chronic Toxicity with Mysid

			Day 1			Day 2			Day 3			Day 4			Day 5			Day 6			Day 7			
			06/12/26			06/13/26			06/14/26			06/15/26			06/16/26			06/17/26			06/18/26			
			Time 1016			Time 1218			Time 1130			Time 1159			Time 950			Time 922			Time 1047			
			Tech SN			Tech MM			Tech KS/EM			Tech LW			Tech SK			Tech LW			Tech TVL			
Concentration (µg/L)	REP	# Initiated	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Comments
Control	1	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	3	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	4	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	5	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	6	5	4	0	1NB	4	0		4	0		4	0		4	0		4	0		4	0		
	7	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	8	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
62.5	1	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	2	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	3	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	4	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	5	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	6	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	7	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
	8	5	5	0		5	0		5	0		5	0		5	0		5	0		5	0		
125	1	5	5	0		5	0		3	0	2NB	2	0	1NB	2	0		2	0		2	0		
	2	5	5	0		4	1		4	0		3	0	1NB	3	0		3	0		3	0		
	3	5	4	1		3	1		3	0		3	0		3	0		2	0	1 NB	2	0		
	4	5	5	0		3	1	1NB	1	0	2NB	1	0		1	0		1	0		1	0		
	5	5	5	0		2	2	1NB	1	1		1	0		1	0		1	0		1	0		
	6	5	4	1		4	0		3	0	1NB	3	0		3	0		3	0		3	0		
	7	5	2	2	1NB	2	0		2	0		2	0		2	0		2	0	1NB	2	0		
	8	5	5	0		4	1		3	1		3	0		3	0		3	0		3	0		
250	1	5	0	5																				
	2	5	0	5																				
	3	5	1	3	1NB	0	1																	
	4	5	0	5																				
	5	5	0	5																				
	6	5	3	2		2	1		0	2														
	7	5	2	3		1	1		1	0		1	0		1	0		1	0		1	0		
	8	5	1	4		1	0		0	1														

CLIENT	Internal	TEST TYPE	Reference Toxicant	PROTOCOL	TOX 014 / TOX 099
ASSOCIATED TEST	Various	TEST START DATE	6/11/26	TOXICANT	Copper
REF TOX ID	R240207.234	TEST END DATE	6/18/26	SPECIES	Americamysis bahia
LOT #	BCCH9104	MATRIX	Liquid		

Abbreviation Key:

NB = No Body
FB = Found Body
ST = Stranded

7 Day Chronic Toxicity with Mysid

			Day 1																					Day 2			Day 3			Day 4			Day 5			Day 6			Day 7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
			Date		06/12/26		Time		1016		Tech		SN		Date		06/13/26		Time		1218		Tech		MM		Date		06/14/26		Time		1130		Tech		KS/EM		Date		06/15/26		Time		1159		Tech		LW		Date		06/16/26		Time		950		Tech		SK		Date		06/17/26		Time		922		Tech		LW		Date		06/18/26		Time		1047		Tech		TVL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Concentration (µg/L)			REP	#initiated	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs	Alive	Dead	Obs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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CLIENT	Internal	DATE RECEIVED	Reference Toxicant	PROTOCOL	TOX 014 / TOX 099
ASSOCIATED TEST	Various	TEST START DATE	6/11/26	TOXICANT	Copper
REF TOX ID	R240207.234	TEST END DATE	6/18/26	SPECIES	Americamysis bahia
LOT #	BCCH9104	MATRIX	Liquid		

7 Day Chronic Toxicity with Mysid

Concentration (µg/L)	REP	Boat Number	Weight Empty Boat (mg)	Weight Boat & Animals (mg)	Pan Count	Comments
Control	1	1	13.43	14.92	5	
	2	2	9.26	10.66	5	
	3	3	13.11	14.62	5	
	4	4	12.1	13.27	5	
	5	5	12.92	14.3	5	
	6	6	12.33	13.49	4	
	7	7	13.68	14.75	5	
	8	8	12.34	13.67	5	
62.5	1	9	13.76	14.96	5	
	2	10	12.48	13.67	5	
	3	11	12.39	13.33	5	
	4	12	13	14.52	5	
	5	13	8.31	9.47	5	
	6	14	12.44	13.56	5	
	7	15	12.33	13.36	5	
	8	16	12.98	14.05	5	
125	1	17	13.32	13.99	2	
	2	18	12.18	12.92	3	
	3	19	13.16	13.59	2	
	4	20	12.5	12.72	1	
	5	21	13.43	13.76	1	
	6	22	9.11	10.1	3	
	7	23	13	13.35	2	
	8	24	9.47	10.1	3	
250	1	25	8.45			
	2	26	8.88			
	3	27	12.24			
	4	28	12.32			
	5	29	13.29			
	6	30	8.33			
	7	31	12.36	12.6	1	
	8	32	13.12			

CLIENT	Internal	DATE RECEIVED	Reference Toxicant	PROTOCOL	TOX 014 / TOX 099
ASSOCIATED TEST	Various	TEST START DATE	6/11/26	TOXICANT	Copper
REF TOX ID	R240207.234	TEST END DATE	6/18/26	SPECIES	Americamysis bahia
LOT #	BCCH9104	MATRIX	Liquid		

7 Day Chronic Toxicity with Mysid

Concentration (µg/L)	REP	Boat Number	Weight Empty Boat (mg)	Weight Boat & Animals (mg)	Pan Count	Comments
500	1	33	8.11			
	2	34	9.14			
	3	35	12.48			
	4	36	12.46			
	5	37	12.4			
	6	38	12.83			
	7	39	12.15			
	8	40	8.82			
1000	1	41				
	2	42				
	3	43				
	4	44				
	5	45				
	6	46				
	7	47				
	8	48				
	1	X1				
	2	X2				

	Oven Event 1	Oven Event 2
Oven ID:	Beelzebub	Beelzebub
Date/Time/Initials In Oven:	6/3/26 1445 EM	6/18/26 1116 TVL
Oven Temp °C:	60	60.00
Date/Time/Initials Out Oven into Dessicator:	6/4/26 1546 MM	6/19/26 1235 SN
Date/Time/Initials Weighed:	6/16/26 0738 MS	6/20/26 1411 NL
Balance ID:	3.00	3.00

ORGANISM RECEIPT LOG

Date: 6/11/26		Time: 1200		Batch No. SE061126.01			
Organism: Americamysis bahia (mysis)							
Source / Supplier: Spheros Environmental							
No. Ordered: 960		No. Received: 960 +		Source Batch: Collection date, hatch date, etc.): Release date: 6/4/26			
Condition of Organisms: Good				Approximate Size or Age: (Days from hatch, life stage, size class, etc.): Juvenile			
Shipper: FedEx				B of L (Tracking No.) 8728 9280 7743			
Condition of Container: Good				Received By: TVL			
Container	D.O. (mg/L)	Temp. (°C)	Cond. or Sal. (Include Units)	pH (Units)	# Dead	% Dead*	Tech. (Initials)
A	6.5	25.7	30	7.1	0	/	TVL
B	6.3	25.7	30	7.1	0	/	TVL
*if >10% contact lab manager							
Notes:							

Organism Information

Species	<i>Americamysis bahia</i> (formerly <i>Mysidopsis bahia</i>)		
Release Date	06/04/2026	Life Stage	Juvenile
Quantity	960+	Lot Number	MS-7977
	Aquatic Indicators, St. Augustine, FL		
Source of Species	☒ Laboratory Cultured, ☐ Hatchery Reared, ☐ Field Collected, ☐ Other		

Culture / Holding Water Quality

Conductance	NA	Salinity (‰)	30 ppt
Alkalinity	50-70 mg CaCO ₃ /L	Hardness	NA
Temp (°C)	25±1°C	Other: _____	
Feeding	<i>Artemia</i> nauplii	Photoperiod	16L:8D

Shipment Information

Sold to	PGB
Carrier	Fedex
Tracking Number	872892807743
Shipment Date	06/10/26

Laboratory receipt "Stamp" goes here

APPENDIX B

CHAIN-OF-CUSTODY AND SAMPLE RECEIPT FORMS

SAMPLE RECEIPT

Client:	Client ID:	Lab ID:	Renewals:
LOTT CWA	Final Effluent #1	P260611.02	
Project:	Final Effluent #2		P260612.02
LOTT WET 2026	Final Effluent #3		P260616.02
Date/Time Received:	6/11/26 1200	6/12/26 1250	6/16/26 1310
Airbill #:	8729 01845050	8729 4938 2586	8730 8802 7377
Shipper Tracking Information Kept for Records: (Y/N/NA)	N	N	N
Collection Date/Time:	6/10/26 0500	6/11/26 0800	6/15/26 0710
Sample Holding Time (must be ≤36 hours at test initiation)	Y	Y	Y
Condition of Shipping Container:	Good	Good	Good
Type and Capacity of Sample Container:	20L Cubi	20L Cubi	20L Cubi
Total Sample Volume (L):	20L	20L	20L
Condition of Sampling Container:	Good	Good	Good
Sample Container Appropriate: (Y/N)	Y	Y	Y
Custody Seals Intact: (Intact/Broken/Not Present)	① Intact	NP	NP
Frozen Wet or Blue Ice Present During Shipment/Transport: (Y/N)	Y, Wet ice	Y	Y
Sampler's Name Present on COC Form: (Print Name/Not Present)	Meghan Feuk	Meghan Feuk	Meghan Feuk
Color:	clear/brown	clear yellow	clear yellow

TAKE THE FOLLOWING MEASUREMENTS UPON ARRIVAL

LAB ID	Meter #	Temp. (°C) * (0-6°C)	Meter #	Dissolved Oxygen (mg/L)	Meter #	pH	Meter #	Cond. (µS/cm)	Meter #	Sal. (ppt)	Hardness (mg CaCO ₃ /L)	Alkalinity (mg CaCO ₃ /L)	Total Chlorine (mg/L)	Total NH ₃ (mg/L)	Tech
P260611.02	K ¹³	0.2	16.41	7.32				120.169					ND	② 0.00	6N/EG
P260612.02	K ¹³	0.3	7	8.9	7	7.3		70.183					0.02	0.00	SK/SN
P260616.02	K ³⁰	0.1	13	8.3	13	7.3		130.224					0.04	② ND	SK

*Notify project manager or study director of temperatures above 6°C or ≥36 hours holding time. Client must be notified ASAP.

If there are sample receipt problems, complete the following:

Reason for unacceptability:

Name of Client Contact:

Contacted by:

Client Response and/or Action to be Taken:

Date Action Taken:

① IE - 6/11/26 Ecu ② NH₃ preserved for later - SN 6/11/24, SK 6/16/26

V.1

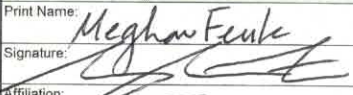
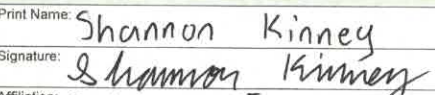
CHAIN OF CUSTODY

Destination: Spheros Environmental			Sample Originator (Organization): LOTT Clean Water Alliance				Report Results To: LOTT Clean Water Alliance				Ship Samples to: Spheros Environmental 4770 NE View Drive Port Gamble, WA 98364									
Destination Contact: Michelle Bennett			Samplers Name: Meghan Fenk				Contact Name: Meghan Fenk													
Date: 6/10/26			Address: 500 Adams St NE Olympia, WA 98501				Address: 500 Adams St NE Olympia, WA 98501													
Project Name: LOTT WET 2026			Phone: 360 528 5760				Phone: 360 528 5760													
Contract/PO #:			Email: meganfenk@lott cleanwater.org				Email: meganfenk@lott cleanwater.org				Invoicing To: accounts payable@lott				Comments or Special Instructions: cleanwater.org					

No.	Sample ID	Volume	Grab Sample		Composite Sample				Preservation	Chronic Topsoil	Chronic Mussel	Analyses								Sample Temp Upon Receipt	Lab ID
			Date	Time	Start Date	Start Time	End Date	End Time													
1	FINAL EFFLUENT #1	20L			6/9/26	0500	6/10/26	0500	ice	X	X									0.2	PZ60611.02
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:		Received by:		Relinquished by:		Received by:	
Print Name: Meghan Fenk	Signature: [Signature]	Print Name: Emily Gromer	Signature: [Signature]	Print Name:	Signature:	Print Name:	Signature:
Affiliation: LOTT	Date/Time: 6/10/26 0900	Affiliation: Spheros Env	Date/Time: 6/11/26 1200	Affiliation:	Date/Time:	Affiliation:	Date/Time:

CHAIN OF CUSTODY

Destination: Spheros Environmental			Sample Originator (Organization): LOTT Clear Water Alliance			Report Results To: LOTT Clear Water Alliance			Ship Samples to: Spheros Environmental 4770 NE View Drive Port Gamble, WA 98364 Invoicing To: accounts payable@lott Comments or Special Instructions: clearwater.org											
Destination Contact: Michelle Bennett			Samplers Name: Meghan Feuk			Contact Name: Meghan Feuk														
Date: 6/11/26			Address: 500 Adams St NE Olympia, WA 98501			Address: 500 Adams St NE Olympia, WA 98501														
Project Name: LOTT WET 2026			Phone: 360 528 5760			Phone: 360 528 5760														
Contract/PO #:			Email: meghanfeuk@lottclearwater.org			Email: meghanfeuk@lottclearwater.org			Analyses Chronic Toxmet + Chronic Mysid											
No.	Sample ID	Volume	Grab Sample		Composite Sample				Preservation	Sample Temp Upon Receipt Lab ID										
			Date	Time	Start Date	Start Time	End Date	End Time												
1	FINAL EFFLUENT #2	20L			6/10/26	0800	6/11/26	0800	ice	X X 0.3°C P260612.02										
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
Relinquished by:			Received by:						Relinquished by:						Received by:					
Print Name: Meghan Feuk			Print Name: Shannon Kinney						Print Name:						Print Name:					
Signature: 			Signature: 						Signature:						Signature:					
Affiliation: LOTT			Affiliation: Spheros Env.						Affiliation:						Affiliation:					
Date/Time: 6/11/26 0800-0900			Date/Time: 6/12/26 1250						Date/Time:						Date/Time:					

CHAIN OF CUSTODY

Destination: Spheros Environmental			Sample Originator (Organization): LOTT Clean Water Alliance			Report Results To: LOTT Clean Water Alliance			Ship Samples to: Spheros Environmental 4770 NE View Drive Port Gamble, WA 98364 Invoicing To: accounts payable @ lott Comments or Special Instructions: clearwater.org									
Destination Contact: Michelle Bennett			Samplers Name: Meghan Feuk			Contact Name: Meghan Feuk												
Date: 6/14/26			Address: 500 Adams St NE Olympia, WA 98506			Address: 500 Adams St NE Olympia, WA 98506												
Project Name: 15 LOTT WET 2026			Phone: 360 528 5760			Phone: 360 528 5760												
Contract/PO #:			Email: meghanfeuk@lott clearwater.org			Email: meghanfeuk@lott clearwater.org												

No.	Sample ID	Volume	Grab Sample		Composite Sample				Preservation	Chronic Topsoil	Chronic Mysis	Analyses								Sample Temp Upon Receipt	Lab ID
			Date	Time	Start Date	Start Time	End Date	End Time													
1	FINAL EFFLUENT #3	20L			6/13/26	0710	6/14/26	0710	ice	X	X									0.1°C	P260616.02
2					14		15														
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

Relinquished by:			Received by:			Relinquished by:			Received by:		
Print Name: Meghan Feuk			Print Name: Shannon Kinney			Print Name:			Print Name:		
Signature: [Signature]			Signature: [Signature]			Signature:			Signature:		
Affiliation: LOTT			Affiliation: Spheros Env			Affiliation:			Affiliation:		
Date/Time: 6/15/26 1000			Date/Time: 6/16/26 1310			Date/Time:			Date/Time:		