LELAP Certificate No.: 02027

Product Biomonitoring Report
***Menidia beryllina* (EPA Method 1006) &**
***Americamysis bahia* (EPA Method 1007)**

prepared for
Corrosion Innovations
Client Contact: Jim Knocke

CHLOR*RID SP8 RINSE.
EE USA Project No.: Q-1662-20
Sample Collected: September 25, 2020, at 16:47

M. beryllina
SURVIVAL 7-Day NOEC/LOEC = 0.03%/0.06% Product (PR)
GROWTH 7-Day NOEC/LOEC = <0.03%/0.03% PR
% CV = 3.82

A. bahia
SURVIVAL 7-Day NOEC/LOEC = 0.0100%/0.0150% PR
GROWTH 7-Day NOEC/LOEC = 0.0050%/0.0100% PR
% CV = 10.3

Report Date: August 04, 2023
by
ENVIRONMENTAL ENTERPRISES USA, INC.
58485 PEARL ACRES ROAD, SUITE D
SLIDELL, LOUISIANA 70461
(800) 966-2788

This is an amended report. The original report identified the product as "Corr-Ze 100". At the client's request, the product name has been updated to CHLOR*RID SP8 Rinse.

Michele Ellis
Effluents Testing Supervisor

8/4/23
DATE

David L. Daniel
President
QA/QC Officer

8/4/23
DATE

SWORN TO AND SUBSCRIBED BEFORE ME THIS 4 DAY OF August 20 23
Marie Betts #159677
Louisiana Notary Public Commissioned for Life
St. Tammany Parish * Statewide Jurisdiction

INLAND SILVERSIDE (*Menidia beryllina*) LARVAL SURVIVAL & GROWTH TEST EPA-821-R-02-014: METHOD 1006

TEST OVERVIEW

A 7-day static-renewal toxicity test was conducted by Environmental Enterprises USA, Inc. (EE USA) to determine toxicity of PR CHLOR*RID SP8 RINSE to *Menidia beryllina* larvae. Methods, materials, and results are presented in this document. Test organisms were cultured at EE USA and were 11-days-old when this test was initiated. Synthetic seawater was used as the laboratory performance control (LPC) solution and diluent in this test. Five replicates of the LPC solution and five PR concentrations were prepared initially and renewed daily. PR concentrations tested were 0.03, 0.06, 0.12, 0.25, and 0.50%. This test was initiated October 06, 2020, at 15:37 and completed October 13, 2020, at 09:15.

MATERIALS AND METHODS

Materials and methods for the work performed are stated in EPA-821-R-02-014: Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms. Actual materials and methods are detailed below. This test was performed with strict adherence to the requirements of Method 1006 and/or the Western Gulf of Mexico OCS General Permit. The recommendations and suggestions made elsewhere in EPA-821-R-02-014 were incorporated whenever applicable to optimize the experimental design. Dilution water was prepared with hw-MARINEMIX + Bio-elements and Crystal Sea Marinemix Bioassay Laboratory Formula sea salts (80:20) and deionized water and adjusted to 25 parts per thousand (ppt) salinity.

M. beryllina was cultured and maintained at 24±1°C and 25 ppt salinity. Several clutches from different females comprised the embryo pool from which test organism population hatched. Test organisms were fed 200 – 300 µl of a standardized suspension of less than 24-hour-old *Artemia* nauplii twice daily by replicate. The standard suspension is equal to 0.05 g wet weight strained nauplii per ml synthetic seawater. Test organisms were not fed on Day 7. One day prior to test initiation, eight inland silverside minnows were transferred randomly into 30 test chambers with 250 ml synthetic seawater. These test chambers were then placed in the environmental chamber.

Sensitivity of test organisms to a known toxicant was determined by performing a chronic Standard Reference Toxicant (SRT) test, MN2010, with potassium chloride (GFS Chemicals, Lot 19190172). The SRT test was initiated on October 01, 2020, with 11-day-old *M. beryllina* larvae. Appendix E contains *M. beryllina* SRT control charts.

	SURVIVAL	GROWTH
NOEC:	686 mg/L	686 mg/L
LOEC:	980 mg/L	>686 mg/L

The product used in this test was delivered to EE USA on September 29, 2020 (Appendix D). This sample was used to prepare a 1% stock solution. The stock solution was used to prepare the initial and subsequent renewal test solutions. Test chambers were labeled with replicate identification, and EE USA's project number. Six treatments, five PR concentrations and a LPC were prepared daily (Appendix A, page 1).

Each treatment was poured into a new acid-washed 1-gallon plastic container and placed in an environmental chamber to warm up to test temperature. After the test solutions reached test temperature, initial water quality parameters (temperature, dissolved oxygen (DO), and salinity) were measured. At the end of each 24-hour exposure period, prior to renewal, the ending DO, temperature, salinity, and pH in each treatment were recorded also (Appendix A, pages 11 - 17). Alkalinity, pH, and salinity were measured in the LPC October 06, October 08, and October 10, 2020 (Appendix A, page 2).

On Day 0, the preloaded replicate test chambers were removed from the environmental chamber and carefully examined. Dead or injured larvae were replaced with organisms from the same batch and this test was initiated by renewal: excess food and debris was removed by pipette and 90% of the treatment solution was poured out of each replicate. Aliquots of freshly prepared treatments were poured gently into each replicate as appropriate and then this test was placed in the environmental chamber. Surviving test organisms were disturbed as little as possible during renewal. On Days 1 - 6, the test was renewed.

Every 24 hours, survival was recorded (Appendix A, pages 3 - 5). After seven days, the final survival data were recorded and this test was terminated. Surviving *M. beryllina* were rinsed in deionized water, placed on a tared weighing dish, and dried at 60+/-4°C for 24 hours by replicate. After cooling for at least 30 minutes, dried *M. beryllina* were weighed and the average individual dry weight for each replicate was calculated (Appendix B, page 4). The average individual dry weight is equal to the replicate weight divided by the number of original larvae.

Summary of Experimental Conditions

Test Organisms:	11-day-old *Menidia beryllina* larvae.
Dilution Water:	Synthetic seawater, 25 ppt salinity.
Temperature:	25±1°C.
Photoperiod:	16 hours light; 8 hours dark.
Test Chambers:	Rectangular Pyrex dish, 21 cm x 11 cm x 7 cm. Total volume = 1.45 L.
Test Solution Volume:	500 ml.
Aeration:	No.
Test Solution Renewal:	Yes.

Test acceptability criteria (TAC) include minimum LPC survival, 80%, minimum mean dry weight for surviving *M. beryllina* in the LPC, ≥0.50 mg, and maximum percent coefficient of variation (%CV) in the LPC and critical dilution for survival and growth, ≤40. The %CV was calculated using the number of surviving *M. beryllina* in each replicate. This test met all TAC. Survival in the concurrent LPC was 100.0%. The mean dry weight of surviving *M. beryllina* in the LPC was 1.513 mg and the highest %CV for survival and growth in the LPC and critical dilution was 3.82 (Appendix B, pages 2 & 5).

RESULTS AND CONCLUSION

The response used in statistical analysis of survival data was the proportion of surviving test organisms per replicate. These proportions were transformed by the Arc Sine Square Root Transformation and then tested for normal distribution and homogeneity of variance using Shapiro-Wilk's and Bartlett's tests, respectively. Survival data were normally distributed, unequal in variance, and further evaluated by the nonparametric alternative, Steel's Many-One Rank Test. The No Observed Effect Concentration (NOEC) for impaired *M. beryllina* survival was 0.03% PR. The Lowest Observed Effect Concentration (LOEC) was 0.06% PR. For this *M. beryllina* survival data set, the minimum statistically significant percent difference (MSDp) was 14.3 (Appendix B, page 2).

The response used in growth data analysis was the average individual dry weight for each replicate: replicate weight divided by the number of original larvae. Growth data were not transformed and concentrations demonstrating significant mortality are routinely excluded from subsequent data analysis. Growth data were tested for normal distribution and homogeneity of variance using Shapiro-Wilk's and Bartlett's tests, respectively. Growth data were normally distributed, equal in variance, and further evaluated by the parametric alternative, Dunnett's Test. The NOEC for impaired *M. beryllina* growth was <0.03% PR. The LOEC was 0.03% PR. For this *M. beryllina* growth data set, the MSDp was 8.89 (Appendix B, page 4).

Survival of *M. beryllina* larvae exposed to CHLOR*RID SP8 RINSE was reduced significantly at 0.06% PR (the LOEC). Growth was reduced significantly at 0.03% PR (the LOEC). Survival and growth data summary statistics are presented in Appendix B.

A 96-hour range finding test was originally initiated on September 30, 2020 (EE USA Project No.: Q-1661-20). The test was terminated at 24 hours due to high mortality. A second 96-hour range finding test was initiated on October 1, 2020 (EE USA Project No.: Q-1664-20). Appendix F contains the raw data pages.

MYSID (*Americamysis bahia*) SURVIVAL, GROWTH, AND FECUNDITY TEST EPA-821-R-02-014: METHOD 1007

TEST OVERVIEW

A 7-day static-renewal toxicity test was conducted by EE USA to determine toxicity of PR CHLOR*RID SP8 RINSE to *Americamysis bahia* juveniles. Methods, materials, and results are presented in this document. Organisms used in this test were cultured at EE USA and 7-days-old when this test was initiated. Synthetic seawater was used as the LPC solution and diluent in this test. Eight replicates of the LPC solution and five PR concentrations were prepared initially and renewed daily. PR concentrations tested were 0.0025, 0.0050, 0.0100, 0.0150, and 0.0300%. This test was initiated October 06, 2020, at 15:20 and completed October 13, 2020, at 10:05.

MATERIALS AND METHODS

Materials and methods for the work performed are stated in EPA-821-R-02-014: Short Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms. Actual materials and methods are detailed below. This test was performed with strict adherence to the requirements of Method 1007 and/or the Western Gulf of Mexico OCS General Permit with the following exception(s):

1) during this test, recorded temperatures fell outside the required range by not more than 0.8°C on at least one occasion. This was a minor excursion and did not affect the results of this test.

The recommendations and suggestions made elsewhere in EPA-821-R-02-014 were incorporated whenever applicable to optimize the experimental design. Dilution water was prepared with hw-MARINEMIX + Bio-elements and Crystal Sea Marinemix Bioassay Laboratory Formula sea salts (80:20) and deionized water and adjusted to 25 ppt salinity.

A. bahia was cultured and maintained at 24±1°C and 25 ppt salinity. Six days before initiating this test, approximately 500, 12- to 24-hour-old mysids were collected from breeding cultures, moved to a holding system, and acclimated to 26±1°C. Test organisms were fed 100 – 175 µl of a standardized suspension of less than 24-hour-old *Artemia* nauplii twice daily by replicate. The standard suspension is equal to 0.05 g wet weight strained nauplii per ml synthetic seawater.

Sensitivity of test organisms to a known toxicant was determined by performing a chronic Standard Reference Toxicant (SRT) test AB2010, with potassium chloride (GFS Chemicals, Lot 19190172). The SRT test was initiated on October 01, 2020, with 7-day-old *A. bahia*. Appendix E contains *A. bahia* SRT control charts.

	SURVIVAL	GROWTH
NOEC:	416 mg/L	250 mg/L
LOEC:	694 mg/L	416 mg/L

The product used in this test was delivered to EE USA on September 29, 2020 (Appendix D). This sample was used to prepare a 1% stock solution. The stock solution was used to prepare the initial and subsequent renewal test solutions. Test chambers were labeled with replicate identification, and EE USA's project number. Six treatments, five PR concentrations and a LPC were prepared daily (Appendix A, page 1).

Each treatment was poured into a new acid-washed 1-gallon plastic container and placed in an environmental chamber to warm up to test temperature. After the test solutions reached test temperature, initial water quality parameters (temperature, DO, and salinity) were measured. At the end of each 24-hour exposure period, prior to renewal, the ending DO, temperature, salinity, and pH in each treatment were recorded also (Appendix A, pages 13 - 16). Alkalinity, pH, and salinity were measured in the LPC October 06, October 08, and October 10, 2020 (Appendix A, page 1).

On Day 0, the treatments were poured into their respective test chambers, five *A. bahia* juveniles were distributed randomly to each, and then this test was placed in the environmental chamber. On Days 1 - 6, the test was renewed: excess food and debris was removed by pipette and 90% of the treatment solution was poured out of each replicate. Aliquots of freshly prepared treatments were poured gently into each replicate as appropriate. Surviving test organisms were disturbed as little as possible during renewal.

Every 24 hours, survival was recorded (Appendix A, pages 11 - 13). After seven days, the final survival data were recorded and this test was terminated. Surviving *A. bahia* were rinsed in deionized water, placed on a tared weighing dish, and dried at 60+/-4°C for 24 hours by replicate. After cooling for at least 30 minutes, dried *A. bahia* were weighed and the average individual dry weight for each replicate was calculated (Appendix C, page 5). The average individual dry weight is equal to the replicate weight divided by the number of original mysids.

Summary of Experimental Conditions

Test Organisms:	7-day-old *Americamysis bahia* juveniles.
Dilution Water:	Synthetic seawater, 25 ppt salinity.
Temperature:	26±1°C.
Photoperiod:	16 hours light; 8 hours dark.
Test Chambers:	Disposable plastic cups, 9 cm in diameter. Total volume = 300 ml.
Test Solution Volume:	150 ml.
Aeration:	No.
Test Solution Renewal:	Yes.

TAC include minimum LPC survival, 80%, minimum mean dry weight for surviving *A. bahia* in the LPC, ≥0.20 mg, and maximum %CV in the LPC and critical dilution for survival and growth, ≤40. The %CV was calculated using the number of surviving *A. bahia* in each replicate. This test met all TAC. Survival in the concurrent LPC was 100.0%. The mean dry weight of surviving *A. bahia* in the LPC was 0.420 mg and the highest %CV for survival and growth in the LPC and critical dilution was 10.3 (Appendix C, pages 3 & 6).

RESULTS AND CONCLUSION

The response used in statistical analysis of survival data was the proportion of surviving test organisms per replicate. These proportions were transformed by the Arc Sine Square Root Transformation and then tested for normal distribution and homogeneity of variance using Shapiro-Wilk's and Bartlett's tests, respectively. Survival data were not normally distributed and were further evaluated by the nonparametric alternative, Steel's Many-One Rank Test. The NOEC for impaired *A. bahia* survival was 0.0100% PR. The LOEC was 0.0150% PR. For this *A. bahia* survival data set, the MSDp was 8.82 (Appendix C, page 3).

The response used in growth data analysis was the average individual dry weight for each replicate: replicate weight divided by the number of original larvae. Growth data were not transformed and concentrations demonstrating significant mortality are routinely excluded from subsequent data analysis. Growth data were tested for normal distribution and homogeneity of variance using Shapiro-Wilk's and Bartlett's tests, respectively. Growth data were normally distributed, equal in variance, and further evaluated by the parametric alternative, Dunnett's Test. The NOEC for impaired *A. bahia* growth was 0.0050% PR. The LOEC was 0.0100% PR. For this *A. bahia* growth data set, the MSDp was 10.7 (Appendix C, page 5).

Survival of *A. bahia* exposed to CHLOR*RID SP8 RINSE was reduced significantly at 0.0150% PR (the LOEC). Growth was reduced significantly at 0.0100% PR (the LOEC). Survival and growth data summary statistics are presented in Appendix C.

A 96-hour range finding test was originally initiated on September 30, 2020 (EE USA Project No.: Q-1661-20). The test was terminated at 24 hours due to high mortality. A second 96-hour range finding test was initiated on October 1, 2020 (EE USA Project No.: Q-1664-20). Appendix F contains the raw data pages.

REFERENCES

Environmental Enterprises USA, Quality Assurance Plan, April 2018 (or most recent version).

Environmental Enterprises USA, Standard Operating Procedures, April 2020 (or most recent version).

NELAC Institute. TNI Standard, Environmental Laboratory Sector, adopted September 8, 2009. Management and Technical Requirements for Laboratories Performing Environmental Analysis. Volume 1. EL-V1-2009-ISO. Weatherford, TX 76086.

Tidepool Scientific Software. 2018. CETIS™ Comprehensive Environmental Toxicity Information System. Version 1.9.7.7. Tidepool Scientific, LLC, McKinleyville, CA 95519 (or most recent version).

U. S. Environmental Protection Agency, March 1983. Methods for Chemical Analysis of Water and Wastes, EPA 600-4-79-020. Office of Research and Development. Washington, DC 20460.

U.S. Environmental Protection Agency. June 2000. Understanding and Accounting for Method Variability in Whole Effluent Toxicity Applications Under the National Pollutant Discharge Elimination System Program. EPA 833-R-00-003. Office of Wastewater Management (4203). Washington, DC 20460.

U.S. Environmental Protection Agency. July 2000. Method Guidance and Recommendations for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136). EPA 821-B-00-004. Office of Water (4303). Washington, DC 20460.

U.S. Environmental Protection Agency. October 2002. Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms. EPA-821-R-02-014, Method 1006 and Method 1007. 3rd Edition. Office of Water (4303T). Washington, DC 20460.

U.S. Environmental Protection Agency Region VI, Effective: October 1, 2017. Final NPDES General Permit for New and Existing Sources and New Dischargers in the Offshore Subcategory of the Oil and Gas Extraction Category for the Western Portion of the Outer Continental Shelf of the Gulf of Mexico (GMG290000). FR Volume 82, No. 189: 45845, October 2, 2017.

Environmental Enterprises USA, Inc.

APPENDIX A

Corrosion Innovations – Corr-Ze 100

Jim Knocke

Test Concentrations, % Product (PR)

Menidia beryllina	Total Volume/ Concentration, ml	Color Code	ml SSOL	ml DH_2O
0.50	2500.00	Black	1250.00	1250.00
0.25	"	Red	625.00	1875.00
0.12	"	Yellow	300.00	2200.00
0.06	"	Green	150.00	2350.00
0.03	"	Blue	75.00	2425.00
0 LP0.0C	"	White	0.00	2500.00
		Total Volume (ml) of PR needed per day=		2400.00
		Total Volume (ml) of PR needed for test duration=		16800.00

Americamysis bahia	Total Volume/ Concentration, ml	Color Code	ml SSOL	ml DH_2O
0.0300	1200.00	Black	36.00	1164.00
0.0150	"	Red	18.00	1182.00
0.0100	"	Yellow	12.00	1188.00
0.0050	"	Green	6.00	1194.00
0.0025	"	Blue	3.00	1197.00
0 LP0.0C	"	White	0.00	1200.00
		Total Volume (ml) of PR needed per day=		75.00
		Total Volume (ml) of PR needed for test duration=		525.00

Sample preparation:

1% Stock Solution (SSOL) : 200.0 ml Corr-Ze 100 + 19800 ml DH_2O

Prepared by : MR Date : 10/06/20

Data Pages & Calculations by: Michelle Zoi QA/QC Check by: MRobbins

M. beryllina = 5 Reps x 500 ml = 2500 ml

A. bahia = 8 Reps x 150 ml = 1200 ml

Prep Date	10/06	10/07	10/08	10/09	10/10	10/11	10/12
DH_2O Lot #	25R-273-20	25R-274-20	25R-275-20	25R-276-20	25R-277-20	25R-278-20	25R-279-20
Sample #	1	1	1	1	1	1	1
Initial	AMS	MR	AMS	SM	CM	CM	MR

Comments: (2) Correction on all data pages 101420 ME

Corr-Ze 100

(2) P-1662-20 NOEC/LOEC

Corrosion Innovations – Corr-Ze 100

DH_2O = Dilution Water = **Synthetic Seawater, 25 ppt**

	LPC	M #	LPC	M #	LPC	M #
Date	10/06		10/08		10/10	
Alkalinity	80	//	88	//	88	//
Salinity	25.1	1B	24.9	1B	24.9	1B
pH	8.0	3n	8.0	3n	8.1	3n
	MR		MR		MR	

LPC: Laboratory Performance Control, synthetic seawater; Alkalinity (EPA Method 310.2): mg/L as $CaCO_3$;
Salinity (EPA Method 120.1): ppt; pH (EPA Method 150.1): su; M#: meter number
Dissolved Oxygen, Electrode (EPA Method 360.1): mg/L; Temperature, Thermometric (EPA Method 170.1): °C

Inland Silverside Minnow, *Menidia beryllina* Larval Survival and Growth Test, Method 1006

Corrosion Innovations – Corr-Ze 100

Test Organisms Age: 11 Days Old Test Organisms Source: EE
Test Initiation At: 1537 on 10/6/20
Counted by: MR QC/QA by: CM Loaded by: CM
Organism Lot # MN-269-20

Exposure Chamber: 1.5 L Pyrex dish.

M. beryllina Daily Survival Data

Treatment: **0% PR**								**White**
Rep.	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	8	8	8	8	8	8	8	8
2	8	8	8	8	8	8	8	8
3	8	8	8	8	8	8	8	8
4	8	8	8	8	8	8	8	8
5	8	8	8	8	8	8	8	8
Initials	CM	SM	AMS	AMS	CM	CM	SM	SM

Treatment: **0.03% PR**								**Blue**
Rep.	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
6	8	8	8	8	8	8	8	8
7	8	8	8	8	8	8	8	8
8	8	8	8	8	8	8	8	8
9	8	8	7	6	6	6	6	6
10	8	8	8	8	8	8	6	6
Initials	CM	SM	AMS	AMS	CM	CM	SM	SM

Comments: _____

M. beryllina Daily Survival Data Cont.

Treatment: **0.06% PR**								**Green**
Rep.	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
11	8	6	6	6	4	4	4	4
12	8	8	7	4	3	3	3	3
13	8	8	8	7	8	8	4	4
14	8	8	8	8	7	2	2	2
15	8	6	6	5	4	4	2	2
Initials	CM	sm	AMS	AMS	CM	CM	sm	sm

Treatment: **0.12% PR**								**Yellow**
Rep.	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
16	8	4	4	4	4	4	2	2
17	8	5	5	4	3	0	0	0
18	8	5	4	3	3	1	0	0
19	8	4	3	2	2	2	2	2
20	8	2	2	2	2	0	0	0
Initials	CM	sm	AMS	AMS	CM	CM	sm	sm

Treatment: **0.25% PR**								**Red**
Rep.	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
21	8	0	0	0	0	0	0	0
22	8	0	0	0	0	0	0	0
23	8	0	0	0	0	0	0	0
24	8	0	0	0	0	0	0	0
25	8	0	0	0	0	0	0	0
Initials	CM	sm	AMS	AMS	CM	CM	sm	sm

Comments:_____

_____

_____

Corr-Ze 100

Q (2) P-1662-20
NOEC/LOEC

M. beryllina Daily Survival Data Cont.

Treatment: **0.50% PR**								**Black**
Rep.	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
26	8	0	0	0	0	0	0	0
27	8	0	0	0	0	0	0	0
28	8	0	0	0	0	0	0	0
29	8	0	0	0	0	0	0	0
30	8	0	0	0	0	0	0	0
Initials	CM	SM	AMS	AMS	CM	CM	SM	SM
Time	1537	1042	1045	0813	0837	0819	1025	0915

Test Completed on: 10 /13/20

M. beryllina Water Quality Data

All Treatments: Initial Temp., 24.5 to 26.4°C. Final Temp., 23.5 to 26.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I**: initial water quality. **F:** final water quality.

Day 0	Treatment % PR						
10/06/20	~~LPC~~	0.03	0.06	0.12	0.25	0.50	Meter #
DO I	7.0	7.0	6.9	7.2	7.1	7.1	S7
Temp I	23.7	23.9	24.2	24.2	23.9	23.9	1B
Salinity I	25.1	25.1	25.0	25.0	25.0	24.9	1B
Tech Initials: AMS				Time: 1437			

Comments_____

Day 1	Treatment % PR						
10/07/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO F	6.3	6.5	6.5	6.4	6.1	6.6	S7
Temp F	25.9	25.8	25.7	25.7	25.6	25.6	1B
Salinity F	25.5	25.3	25.3	25.3	25.2	25.2	1B
pH F	7.9	8.4	8.4	8.8	9.2	9.5	3n
Tech Initials: SM				Time: 0856			

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

M. beryllina Water Quality Data Cont.

All Treatments: Initial Temp., 24.5 to 26.4°C. Final Temp., 23.5 to 26.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I**: initial water quality. **F**: final water quality.

Day 1	Treatment % PR						
10/07/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO I	7.2	7.3	7.3	7.3	7.4	7.4	S7
Temp I	24.9	25.0	24.9	24.9	24.8	24.7	1B
Salinity I	25.1	25.1	25.1	25.1	25.0	24.9	1B
Tech Initials: SM				Time: 0916			

Comments_____

Day 2	Treatment % PR						
10/08/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO F	10.4	10.4	10.3	10.3			S7
Temp F	25.8	26.0	25.9	25.9			1B
Salinity F	25.4	25.4	25.4	25.3			1B
pH F	7.9	8.2	8.3	8.5			3n
Tech Initials: SM				Time: 0911			

Comments_____

Day 2	Treatment % PR						
10/08/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO I	7.2	7.2	7.2	7.2			S7
Temp I	24.8	24.9	24.8	24.6			1B
Salinity I	24.9	24.9	24.8	24.8			1B
Tech Initials: SM				Time: 0923			

Comments_____

Day 3	Treatment % PR						
10/09/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO F	6.8	6.7	6.8	6.6			S7
Temp F	26.1	26.1	26.4	26.1			1B
Salinity F	25.1	25.2	25.2	25.2			1B
pH F	7.9	8.2	8.3	8.6			3n
Tech Initials: TM				Time: 0721			

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

Corr-Ze 100

Q (2) P-1662-20
NOEC/LOEC

M. beryllina Water Quality Data Cont.

All Treatments: Initial Temp., 24.5 to 26.4°C. Final Temp., 23.5 to 26.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I**: initial water quality. **F:** final water quality.

Day 3	Treatment % PR						
10/09/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO I	7.1	7.1	7.1	7.1			57
Temp I	24.6	24.6	24.6	24.7			1B
Salinity I	24.8	24.8	24.7	24.7			1B 3N
Tech Initials: MK				Time: 0748			

Comments

Day 4	Treatment % PR						
10/10/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO F	6.7	6.5	6.4	6.4			57
Temp F	26.4	26.4	26.4	26.3			1B
Salinity F	25.0	25.2	25.1	25.1			1B
pH F	8.0	8.2	8.2	8.4			3N
Tech Initials: ME				Time: 0731			

Comments

Day 4	Treatment % PR						
10/10/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO I	7.2	7.2	7.2	7.2			57
Temp I	24.6	24.7	24.7	24.6			1B
Salinity I	24.9	24.9	24.8	24.7			1B
Tech Initials: ME				Time: 0750			

Comments

Day 5	Treatment % PR						
10/11/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO F	7.0	6.8	6.4	6.3			57
Temp F	26.0	26.1	26.2	26.2			1B
Salinity F	25.2	25.2	25.2	25.1			1B
pH F	8.0	8.2	8.2	8.6			3N
Tech Initials: ME				Time: 0720			

Comments

DO: mg/L pH: su Salinity: ppt Temp: °C

Corr-Ze 100

Q-P-1662-20 (2)
NOEC/LOEC

M. beryllina Water Quality Data Cont.

All Treatments: Initial Temp., 24.5 to 26.4°C. Final Temp., 23.5 to 26.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I**: initial water quality. **F:** final water quality.

Day 5	Treatment % PR						
10/11/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO I	7.2	7.3	7.4	7.4			S7
Temp I	24.6	24.5	24.6	24.6			1B
Salinity I	24.9	24.8	24.8	24.8			1B
Tech Initials: ME				Time: 0757			

Comments_____

Day 6	Treatment % PR						
10/12/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO F	6.5	6.2	5.8	4.7			S7
Temp F	26.2	26.1	26.2	26.2			1B
Salinity F	25.3	25.2	25.1	25.1			1B
pH F	7.9	8.1	8.2	8.4			3N
Tech Initials: SM				Time: 0840			

Comments_____

Day 6	Treatment % PR						
10/12/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO I	7.3	7.3	7.3	7.3			S7
Temp I	24.9	25.4	25.9	25.7			1B
Salinity I	25.0	24.9	24.8	24.8			1B
Tech Initials: SM				Time: 0848			

Comments_____

Day 7	Treatment % PR						
10/13/20	LPC	0.03	0.06	0.12	0.25	0.50	Meter #
DO F	6.3	5.9	5.2	5.4			S7
Temp F	26.0	26.0	26.1	26.0			1B
Salinity F	25.3	25.0	25.3	25.1			1B
pH F	7.9	8.0	8.1	8.2			3N
Tech Initials:				Time: 0834			

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

Corr-Ze 100

Q (2) P-1662-20
NOEC/LOEC

7 Day *M. beryllina* Growth Data

Rep #	Treatment % PR	A Final Weight (mg)	B Initial Weight (mg)	C No. of Orig. Larvae	D No. of Surv. Larvae
1	0	28.55	16.21	8	8
2	"	25.66	14.12	8	8
3	"	26.20	13.86	8	8
4	"	25.34	13.65	8	8
5	"	24.07	12.06	8	8
6	0.03	26.79	14.45	8	8
7	"	24.54	13.09	8	8
8	"	2225	12.68	8	8
9	"	23.21	13.53	8	6
10	"	22.26	12.73	8	6
11	0.06	19.10	12.70	8	4
12	"	17.47	12.80	8	3
13	"	18.27	12.23	8	4
14	"	14.79	12.02	8	2
15	"	15.66	11.22	8	2

Comments:_____

_____

_____

_____

_____

Corr-Ze 100

QA (2) P-1662-20
NOEC/LOEC

7 Day *M. beryllina* Growth Data Cont.

Rep #	Treatment % PR	A Final Weight (mg)	B Initial Weight (mg)	C No. of Orig. Larvae	D No. of Surv. Larvae
16	0.12	18.12	14.65	8	2
17	"		15.80	8	0
18	"		13.93	8	0
19	"	17.45	15.48	8	2
20	"		14.86	8	0
21	0.25		14.49	8	0
22	"		15.29	8	0
23	"		14.16	8	0
24	"		14.52	8	0
25	"		13.61	8	0
26	0.50		11.83	8	0
27	"		12.97	8	0
28	"		12.30	8	0
29	"		13.82	8	0
30	"		13.40	8	0

Initial Foil Wts at 1207 on 10 / 12 /2020 (AMS) Scale#: 3B

Oven Temp. 59.0 °C Therm. #: TT59

Begin Drying Survivors at 0915 (0905) on 10 / 13 /2020 (SM) (AMS) Oven #: 1V

Finish Drying Survivors at ~~1124~~ (A) on 10 / 14 /2020 (~~SM~~) (A)

Final Foil Wts. at 1124 on 10 / 14 /2020 (SM) Scale #: 2R

Data Entry by: NR

QA/QC Officer: ME

(A) error 10/14/20 SM

Mysid, *Americamysis bahia*
Survival, Growth, and Fecundity Test, Method 1007

Corrosion Innovations – Corr-Ze 100

Test Organisms Age: 7 Days Old Test Organisms Source: EE
Test Initiation At: 1520 on 10/6/20
Counted by: AMS QC/QA by: sm Loaded by: AMS
Organism Lot # Ab-494-20

Exposure Chamber: 300 ml plastic cup.

A. bahia Daily Survival Data

Treatment: **0% PR**								**White**
Rep.	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1/2	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
3/4	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
5/6	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
7/8	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Initials	AMS	sm	AMS	MH	CM	CM	sm	CM

Treatment: **0.0025% PR**								**Blue**
Rep.	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
9/10	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
11/12	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
13/14	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
15/16	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Initials	AMS	sm	AMS	MH	CM	CM	sm	CM

Comments: _____

A. bahia Daily Survival Data Cont.

Treatment: **0.0050% PR**								**Green**
Rep.	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
17/18	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
19/20	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
21/22	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
23/24	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Initials	Ams	sm	Ams	Mk	CM	CM	sm	CM

Treatment: **0.0100% PR**								**Yellow**
Rep.	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
25/26	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
27/28	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/4
29/30	5/4	5/4	5/4	5/4	5/4	5/4	5/4	5/4
31/32	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
Initials	Ams	sm	Ams	Mk	CM	CM	sm	CM

Treatment: **0.0150% PR**								**Red**
Rep.	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
33/34	5/5	5/5	5/5	5/5	5/5	5/4	5/3	3/2
35/36	5/5	5/5	5/5	5/5	5/5	5/5	2/4	2/2
37/38	5/5	5/5	5/5	5/5	5/5	5/5	3/2	3/2
39/40	5/5	5/5	5/5	5/5	5/5	4/5	4/5	3/2
Initials	Ams	sm	Ams	Mk	CM	CM	sm	CM

Comments: _____

A. bahia Daily Survival Data Cont.

Treatment **0.0300% PR**								**Black**
Rep.	Day 0	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
41/42	5/5	5/5	5/5	4/2	1/0	0/0	0/0	0/0
43/44	5/5	5/5	4/5	2/3 (B)	1/0	0/0	0/0	0/0
45/46	5/5	5/5	5/4	5/4	1/0	0/0	0/0	0/0
47/48	5/5	5/5	5/5	0/4	0/0	0/0	0/0	0/0
Initials	AMS	SM	AMS	MR	CM	CM	SM	CM
Time	1520	1120	1130	0950	0900	0844	1120	1005

Test Completed on: 10/13/20

(B) ERROR 10/13/20 MR

A. bahia Water Quality Data

All Treatments: Initial Temp., 24.5 to 26.4°C. Final Temp., 24.5 to 27.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. I: initial water quality. F: final water quality.

Day 0	Treatment % PR						
10/06/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO I	7.0	6.9	7.1	7.0	7.0	7.1	S7
Temp I	24.2	24.2	24.1	23.7	24.0	24.1	1B
Salinity I	24.9	25.0	25.0	25.2	25.1	25.0	1B
Tech Initials: AMS				Time: 1439			

Comments_____

Day 1	Treatment % PR						
10/07/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO F	6.3	(A) 2 6.5	(A) 2 6.5	6.4	6.1	5.7 (A) 6.6	S7
Temp F	25.9	25.8	25.7	25.7	25.6	25.6	1B
Salinity F (A)	26.2 25.5	26.1 25.3	26.2 25.3	26.2 25.3	26.2 25.2	26.4 25.2	1B
pH F	7.9	7.8 8.4 (A)	7.9 8.4	8.0 8.8 (A)	7.9 9.2 (A)	8.1 9.5	3N
Tech Initials: SM		(A)	(A)		Time: 0850 (A) 0859		

Comments (A) Error 10/07/20 SM

DO: mg/L pH: su Salinity: ppt Temp: °C

A. bahia Water Quality Data Cont.

All Treatments: Initial Temp., 24.5 to 26.4°C. Final Temp., 24.5 to 27.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I**: initial water quality. **F**: final water quality.

Day 1	Treatment % PR						
10/07/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO I	7.3	7.3	7.3	7.3	7.3	7.3	S7
Temp I	25.0	24.8	24.9	25.0	24.9	25.1	1B
Salinity I	25.0	25.1	25.1	25.1	25.1	25.1	1B
Tech Initials: SM				Time: 0921			

Comments_____

Day 2	Treatment % PR						
10/08/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO F	6.1	6.2	6.1	6.1	6.1	6.0	S7
Temp F	25.0	24.9	24.9	25.0	25.0	24.8	1B
Salinity F	26.8	26.9	26.9	26.9	26.9	26.8	1B
pH F	7.8	7.8	7.8	7.9	7.9	8.1	3N
Tech Initials: SM				Time: 0913			

Comments_____

Day 2	Treatment % PR						
10/08/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO I	7.2	7.2	7.2	7.2	7.2	7.2	S7
Temp I	24.7	24.8	24.7	24.7	24.8	24.8	1B
Salinity I	24.9	24.9	24.9	24.9	24.9	24.9	1B
Tech Initials: SM				Time: 0927			

Comments_____

Day 3	Treatment % PR						
10/09/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO F	6.4	6.4	6.0	5.8	5.9	6.0	S7
Temp F	25.4	25.4	25.6	25.4	25.7	25.2	1B
Salinity F	26.5	26.2	26.3	26.2	26.3	26.6	1B
pH F	7.8	7.8	7.8	7.9	7.9	8.1	3N
Tech Initials: MA				Time: 1722			

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

A. bahia Water Quality Data Cont.

All Treatments: Initial Temp., 24.5 to 26.4°C. Final Temp., 24.5 to 27.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I**: initial water quality. **F:** final water quality.

Day 3	Treatment % PR						
10/09/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO I	7.1	7.1	7.1	7.1	7.1	7.1	S7
Temp I	24.7	24.7	24.8	24.8	24.8	24.9	1B
Salinity I	24.8	24.8	24.8	24.8	24.8	24.8	1B
Tech Initials: ME					Time: 0749		

Comments_____

Day 4	Treatment % PR						
10/10/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO F	6.3	6.2	6.1	5.9	5.9	6.1	S7
Temp F	25.6	25.7	25.6	25.6	25.6	25.3	1B
Salinity F	26.2	26.0	26.0	26.0	26.2	26.2	1B
pH F	7.9	7.9	7.9	7.9	7.9	8.2	3N
Tech Initials: ME					Time: 0732		

Comments_____

Day 4	Treatment % PR						
10/10/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO I	7.1	7.2	7.2	7.2	7.2	7.2	S7
Temp I	24.6	24.7	24.7	24.7	24.7	24.8	1B
Salinity I	24.7	24.8	24.8	24.8	24.8	24.8	1B
Tech Initials: ME					Time: 0752		

Comments_____

Day 5	Treatment % PR						
10/11/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO F	6.4	6.0	6.1	5.9	5.8	6.2	S7
Temp F	25.5	25.4	25.4	25.4	25.4	25.0	1B
Salinity F	26.0	26.3	26.3	26.3	26.3	26.4	1B
pH F	7.9	7.8	7.8	7.8	7.9	8.2	3N
Tech Initials: ME					Time: 0722		

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

Corr-Ze 100

Q P-1662-20
NOEC/LOEC

A. bahia Water Quality Data Cont.

All Treatments: Initial Temp., 24.5 to 26.4°C. Final Temp., 24.5 to 27.4°C. Initial & Final Dissolvved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I**: initial water quality. **F:** final water quality.

Day 5	Treatment % PR						
10/11/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO I	7.2	7.3	7.3	7.3	7.4	7.3	S7
Temp I	24.5	24.6	24.6	24.5	24.5	24.5	1B
Salinity I	24.7	24.8	24.8	24.8	24.8	24.8	1B
Tech Initials: ME					Time: 0759		

Comments

Day 6	Treatment % PR						
10/12/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO F	6.3	6.3	6.3	5.6	5.4		S7
Temp F	25.4	25.4	25.3	25.3	25.4		1B
Salinity F	26.2	26.3	26.3	26.2	26.2		1B
pH F	7.8	7.8	7.9	7.8	7.8		3N
Tech Initials: SM					Time: 0842		

Comments

Day 6	Treatment % PR						
10/12/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO I	7.3	7.3	7.3	7.3	7.3		S7
Temp I	24.7	25.1	25.3	25.5	25.7		1B
Salinity I	24.7	24.8	24.8	24.8	24.8		1B
Tech Initials: SM					Time: 0852		

Comments

Day 7	Treatment % PR						
10/13/20	LPC	0.0025	0.0050	0.0100	0.0150	0.0300	Meter #
DO F	4.4	5.9	5.2	5.4	5.8		S7
Temp F	26.0	26.0	26.0	25.9	26.0		1B
Salinity F	25.3	25.1	25.0	25.2	25.1		1B
pH F	7.9	8.1	8.1	8.4	8.3		3N
Tech Initials: AMS					Time: 0837		

Comments

DO: mg/L pH: su Salinity: ppt Temp: °C

Corr-Ze 100

Q (2) P-1662-20
NOEC/LOEC

7 Day *A. bahia* Growth Data

Rep #	Treatment % PR	A Final Weight (mg)	B Initial Weight (mg)	C No. of Orig. Larvae	D No. of Surv. Larvae
1	0	7.22	5.21	5	5
2	"	7.59	5.34	5	5
3	"	8.11	5.83	5	5
4	"	7.23	4.82	5	5
5	"	6.81	4.90	5	5
6	"	7.16	4.94	5	5
7	"	7.48	5.68	5	5
8	"	6.80	4.87	5	5
9	0.0025	7.68	5.95	5	5
10	"	6.74	4.97	5	5
11	"	7.23	5.21	5	5
12	"	6.65	4.68	5	5
13	"	6.48	4.48	5	5
14	"	6.58	4.63	5	5
15	"	7.09	5.10	5	5
16	"	6.87	5.06	5	5
17	0.0050	7.75	5.55	5	5
18	"	7.09	4.96	5	5
19	"	7.06	4.89	5	5
20	"	6.29	4.42	5	5
21	"	6.37	4.32	5	5
22	"	7.07	4.97	5	5
23	"	5.98	4.23	5	5
24	"	5.79	4.09	5	5

7 Day *A. bahia* Growth Data Cont.

Rep #	Treatment % PR	A Final Weight (mg)	B Initial Weight (mg)	C No. of Orig. Larvae	D No. of Surv. Larvae
25	0.0100	7.42	6.14	5	5
26	"	6.84	4.83	5	5
27	"	5.75	4.31	5	5
28	"	5.70	4.36	5	4
29	"	6.86	5.13	5	5
30	"	6.09	4.87	5	4
31	"	6.16	4.96	5	5
32	"	7.02	5.09	5	5
33	0.0150	6.46	5.75	5	3
34	"	5.36	4.75	5	2
35	"	6.02	5.59	5	2
36	"	5.28	4.53	5	2
37	"	5.86	4.97	5	3
38	"	5.34	4.77	5	2
39	"	5.91	5.18	5	3
40	"	5.37	4.78	5	2
41	0.0300		4.73	5	0
42	"		5.13	5	0
43	"		5.61	5	0
44	"		5.17	5	0
45	"		4.87	5	0
46	"		5.59	5	0
47	"		5.43	5	0
48	"		4.74	5	6

Initial Foil Wts at 1200 on 10 / 12 /2020 (AMS) Scale#: 3B

Oven Temp. 59.0 °C Therm. #: T159

Begin Drying Survivors at 1005 on 10 / 13 /2020 (CM) Oven #: LV

Finish Drying Survivors at 0905 on 10 / 14 /2020 (AMS)

Final Foil Wts. at 1154 on 10 / 14 /2020 (SM) Scale #: 2R

Data Entry by: NM

QA/QC Officer: ME

Comments:

Corrosion Innovations – Corr-Ze 100

Feeding Chart

Artemia Lot #
090618-1
Initial MM

M. beryllina

AM			
Date	Amount, µl	Time	Initials
10/07/20	200	0820	MM
10/08/20	200	0820	CM
10/09/20	250	0726	CM
10/10/20	250	0710	CM
10/11/20	300	0719	CM
10/12/20	300	0833	MM

PM			
Date	Amount, µl	Time	Initials
10/06/20	200	1615	UB
10/07/20	200	1440	CM
10/08/20	200	1556	CM
10/09/20	250	1417	TB
10/10/20	250	1425	JE
10/11/20	300	1423	BE
10/12/20	300	1600	MM

A. bahia

AM			
Date	Amount, µl	Time	Initials
10/07/20	100	0827	MM
10/08/20	150	0821	CM
10/09/20	150	0727	CM
10/10/20	150	0712	CM
10/11/20	150	0722	CM
10/12/20	175	0834	MM
10/13/20	175	0822	SM

PM			
Date	Amount, µl	Time	Initials
10/06/20	100	1618	UB
10/07/20	100	1441	CM
10/08/20	150	1557	CM
10/09/20	150	1416	TB
10/10/20	150	1424	JE
10/11/20	150	1422	BE
10/12/20	175	1600	MM

Data Pages

- ☑ Company name & contact matches client file.
- ☑ Product matches client file.
- ☑ Dilution series are correct:

M. beryllina dilution series:

0.03, 0.06, 0.12, 0.25, 0.50.

A. bahia dilution series:

0.0025, 0.0050, 0.0100, 0.0150, 0.0300.

- ☑ Calculations on mixing page are correct. (sign mixing page)
- ☑ Dates, dilutions, test method, # of replicates, replicate volume, product, acceptance limits, data analysis endpoint, and test organisms are correct throughout data pages.
- ☑ Format correct. (spaces for all entries, page numeration, no split pages, etc.)

MH Initials 10/6/20 Date

Chain-of-Custody

- ☑ Product on COC matches sample bottle.
- ☑ Product on COC matches test data pages.
- ☑ Lab # on COC matches sample bottle.
- ☑ Lab # on COC matches test data pages.
- ☑ Sample volume is sufficient for test duration. (Sample volume in container(s) checked against sample volume on mixing page)
  (Sample volume insufficient if sample volume available < sample volume needed)

MH Initials 10/6/20 Date

Jugs & Labels

- ☑ Lab # on jug and labels matches test data pages.
- ☑ Dilution water type is on jug. (i.e. 25 ppt, 20 ppt, MHSF, etc.)
- ☑ Dilutions on jugs and labels match dilutions on test data pages.
- ☑ Jugs are color-coded. (see mixing page for appropriate color code sequence)

MH Initials 10/6/20 Date

Raw Data QC/QA by: MH 10/13/20

Environmental Enterprises USA, Inc.

APPENDIX B

CETIS Test Data Worksheet

Inland Silverside 7-d Larval Survival and Growth Test — **Environmental Enterprises USA, Inc.**

Start Date: 06 Oct-20 15:37 **Species:** Menidia beryllina **Sample Code:** Q-1662-20
End Date: 13 Oct-20 09:15 **Protocol:** EPA/821/R-02-014 (2002) **Sample Source:** NPDES Permit #
Sample Date: 25 Sep-20 16:47 **Material:** Product **Sample Station:**

Conc-mg/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
0	LP	1	2	8							8	28.55	16.21	8
0	LP	2	13	8							8	25.66	14.12	8
0	LP	3	8	8							8	26.2	13.86	8
0	LP	4	6	8							8	25.34	13.65	8
0	LP	5	10	8							8	24.67	12.06	8
0.03		1	24	8							8	26.79	14.45	8
0.03		2	20	8							8	24.54	13.8	8
0.03		3	22	8							8	22.25	12.68	8
0.03		4	28	8							6	23.21	13.53	6
0.03		5	21	8							6	22.26	12.73	6
0.06		1	25	8							4	19.1	12.7	4
0.06		2	29	8							3	17.47	12.8	3
0.06		3	3	8							4	18.27	12.23	4
0.06		4	17	8							2	14.79	12.02	2
0.06		5	23	8							2	15.66	11.22	2
0.12		1	1	8							2	18.12	14.65	2
0.12		2	19	8							0	0	0	0
0.12		3	4	8							0	0	0	0
0.12		4	27	8							2	17.45	15.48	2
0.12		5	11	8							0	0	0	0
0.25		1	30	8							0	0	0	0
0.25		2	16	8							0	0	0	0
0.25		3	9	8							0	0	0	0
0.25		4	14	8							0	0	0	0
0.25		5	5	8							0	0	0	0
0.5		1	26	8							0	0	0	0
0.5		2	18	8							0	0	0	0
0.5		3	15	8							0	0	0	0
0.5		4	7	8							0	0	0	0
0.5		5	12	8							0	0	0	0

CETIS Analytical Report

Inland Silverside 7-d Larval Survival and Growth Test — **Environmental Enterprises USA, Inc.**

Analysis ID:	19-1291-7145	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.9.7
Analyzed:	14 Oct-20 13:09	**Analysis:**	Nonparametric-Control vs Treatments	**Status Level:**	1
Edit Date:	14 Oct-20 13:04	**MD5 Hash:**	96CBC4BDCAE110DACD92FBC65683879	**Editor ID:**	006-654-742-5

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	TU	MSDu	PMSD
Angular (Corrected)	C > T	0.03	0.06	0.04243	---	0.1429	14.29%

Steel Many-One Rank Sum Test

Control	vs	Conc-mg/L	Test Stat	Critical	Ties	DF	P-Type	P-Value	Decision(α:5%)
Control		0.03	22.5	17	1	8	CDF	0.3045	Non-Significant Effect
		0.06*	15	17	0	8	CDF	0.0123	Significant Effect
		0.12*	15	17	0	8	CDF	0.0123	Significant Effect

Test Acceptability Criteria — **TAC Limits**

Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.8	>>	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	3.84839	1.2828	3	57.7	<1.0E-05	Significant Effect
Error	0.355688	0.0222305	16			
Total	4.20407		19			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test				Indeterminate
Distribution	Shapiro-Wilk W Normality Test	0.9034	0.866	0.0478	Normal Distribution

7d Survival Rate Summary

Conc-mg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LP	5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
0.03		5	0.9000	0.7300	1.0000	1.0000	0.7500	1.0000	0.0612	15.21%	10.00%
0.06		5	0.3750	0.2198	0.5302	0.3750	0.2500	0.5000	0.0559	33.33%	62.50%
0.12		5	0.1000	0.0000	0.2700	0.0000	0.0000	0.2500	0.0612	136.93%	90.00%
0.25		5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	---	100.00%
0.5		5	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	---	100.00%

Angular (Corrected) Transformed Summary

Conc-mg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LP	5	1.3930	1.3930	1.3930	1.3930	1.3930	1.3930	0.0000	0.00%	0.00%
0.03		5	1.2550	1.0190	1.4900	1.3930	1.0470	1.3930	0.0847	15.10%	9.93%
0.06		5	0.6554	0.4929	0.8180	0.6591	0.5236	0.7854	0.0586	19.97%	52.95%
0.12		5	0.3161	0.0808	0.5513	0.1777	0.1777	0.5236	0.0847	59.94%	77.31%
0.25		5	0.1777	0.1777	0.1778	0.1777	0.1777	0.1777	0.0000	0.00%	87.24%
0.5		5	0.1777	0.1777	0.1778	0.1777	0.1777	0.1777	0.0000	0.00%	87.24%

7d Survival Rate Detail

Conc-mg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	LP	1.0000	1.0000	1.0000	1.0000	1.0000
0.03		1.0000	1.0000	1.0000	0.7500	0.7500
0.06		0.5000	0.3750	0.5000	0.2500	0.2500
0.12		0.2500	0.0000	0.0000	0.2500	0.0000
0.25		0.0000	0.0000	0.0000	0.0000	0.0000
0.5		0.0000	0.0000	0.0000	0.0000	0.0000

Inland Silverside 7-d Larval Survival and Growth Test — **Environmental Enterprises USA, Inc.**

Analysis ID:	19-1291-7145	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.9.7
Analyzed:	14 Oct-20 13:09	**Analysis:**	Nonparametric-Control vs Treatments	**Status Level:**	1
Edit Date:	14 Oct-20 13:04	**MD5 Hash:**	96CBC4BDCAE110DACD92FBC65683879	**Editor ID:**	006-654-742-5

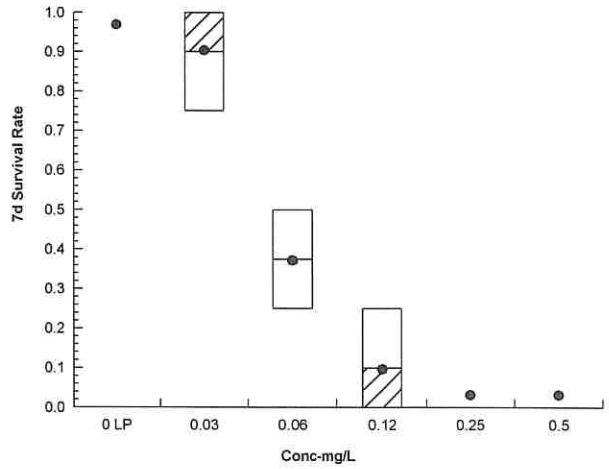
Angular (Corrected) Transformed Detail

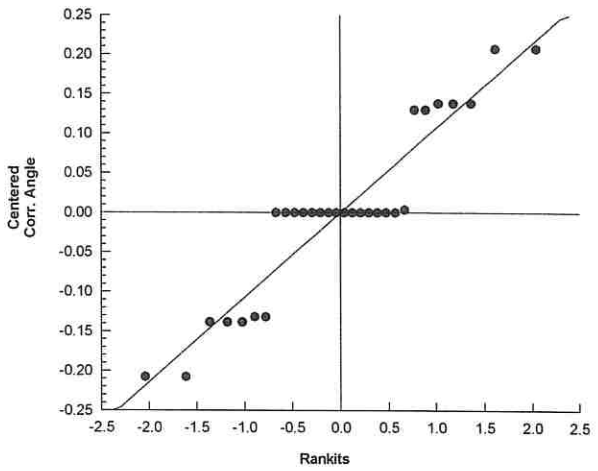
Conc-mg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	LP	1.3930	1.3930	1.3930	1.3930	1.3930
0.03		1.3930	1.3930	1.3930	1.0470	1.0470
0.06		0.7854	0.6591	0.7854	0.5236	0.5236
0.12		0.5236	0.1777	0.1777	0.5236	0.1777
0.25		0.1777	0.1777	0.1777	0.1777	0.1777
0.5		0.1777	0.1777	0.1777	0.1777	0.1777

7d Survival Rate Binomials

Conc-mg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	LP	8/8	8/8	8/8	8/8	8/8
0.03		8/8	8/8	8/8	6/8	6/8
0.06		4/8	3/8	4/8	2/8	2/8
0.12		2/8	0/8	0/8	2/8	0/8
0.25		0/8	0/8	0/8	0/8	0/8
0.5		0/8	0/8	0/8	0/8	0/8

Graphics





CETIS Analytical Report

Test Code/ID: mn166220 / 09-7631-6454

Inland Silverside 7-d Larval Survival and Growth Test — **Environmental Enterprises USA, Inc.**

Analysis ID:	09-4274-1980	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.9.7
Analyzed:	14 Oct-20 13:09	**Analysis:**	Parametric-Two Sample	**Status Level:**	1
Edit Date:	14 Oct-20 13:04	**MD5 Hash:**	E8BA4959D2375813A247A54E8D1CD374	**Editor ID:**	006-654-742-5

Data Transform	Alt Hyp	Comparison Result	PMSD
Untransformed	C > T	0.03mg/L failed mean dry biomass-mg endpoint	8.89%

Equal Variance t Two-Sample Test

Control	vs	Conc-mg/L	Test Stat	Critical	MSD	DF	P-Type	P-Value	Decision(α:5%)
Control		0.03*	2.993	1.86	0.135	8	CDF	0.0086	Significant Effect

Test Acceptability Criteria

		TAC Limits			
Attribute	**Test Stat**	**Lower**	**Upper**	**Overlap**	**Decision**
PMSD	0.0889	0.11	0.28	Yes	Below Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.117181	0.117181	1	8.96	0.0172	Significant Effect
Error	0.104631	0.0130789	8			
Total	0.221812		9			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Variance Ratio F Test	6.815	23.15	0.0899	Equal Variances
Distribution	Shapiro-Wilk W Normality Test	0.8558	0.7411	0.0681	Normal Distribution

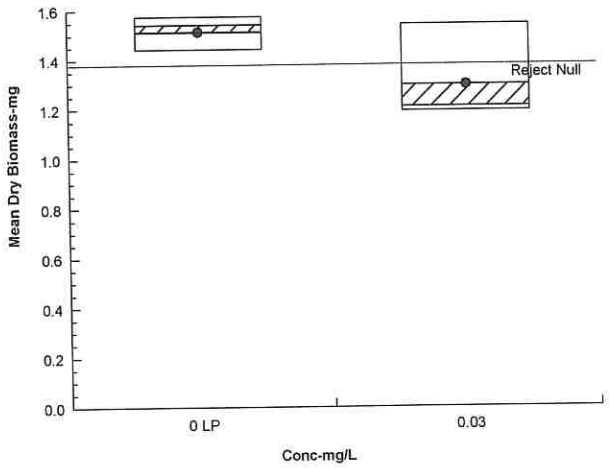
Mean Dry Biomass-mg Summary

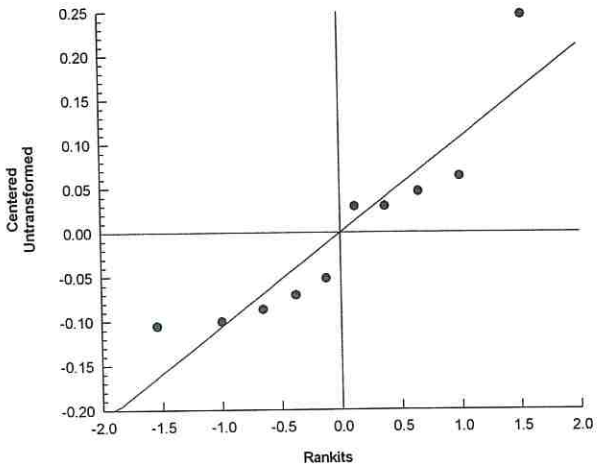
Conc-mg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LP	5	1.513	1.441	1.585	1.543	1.442	1.576	0.02587	3.82%	0.00%
0.03		5	1.297	1.109	1.484	1.21	1.191	1.543	0.06754	11.65%	14.31%

Mean Dry Biomass-mg Detail

Conc-mg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	LP	1.543	1.442	1.543	1.461	1.576
0.03		1.543	1.343	1.196	1.21	1.191

Graphics





CETIS Summary Report

Test Code/ID: mn166220 / 09-7631-6454

Inland Silverside 7-d Larval Survival and Growth Test — **Environmental Enterprises USA, Inc.**

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓	NOEL	LOEL	TOEL	PMSD	S
04-6647-3409	Mean Dry Weight-mg	Bonferroni Adj t Test		0.12	>0.12	---	33.7%	1

Test Acceptability

				TAC Limits			
Analysis ID	Endpoint	Attribute	Test Stat	Lower	Upper	Overlap	Decision
04-6647-3409	Mean Dry Weight-mg	Control Resp	1.513	0.5	>>	Yes	Passes Criteria

Mean Dry Weight-mg Summary

Conc-mg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LP	5	1.513	1.441	1.585	1.442	1.576	0.02587	0.05786	3.82%	0.00%
0.03		5	1.457	1.233	1.681	1.196	1.613	0.08065	0.1803	12.38%	3.73%
0.06		5	1.654	1.249	2.059	1.385	2.22	0.1459	0.3263	19.72%	-9.34%
0.12		2	1.36	-3.405	6.125	0.985	1.735	0.375	0.5303	38.99%	10.11%

Mean Dry Weight-mg Detail — MD5: 59EB48E56368211781BCD66CB2F93411

Conc-mg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	LP	1.543	1.442	1.543	1.461	1.576
0.03		1.543	1.343	1.196	1.613	1.588
0.06		1.6	1.557	1.51	1.385	2.22
0.12		1.735	---	---	0.985	---
0.25		---	---	---	---	---
0.5		---	---	---	---	---

Environmental Enterprises USA, Inc.

APPENDIX C

CETIS Test Data Worksheet

Americamysis 7-d Survival, Growth and Fecundity Test — **Environmental Enterprises USA, Inc.**

Start Date: 06 Oct-20 15:20 **Species:** Americamysis bahia **Sample Code:** Q-1662-20
End Date: 13 Oct-20 10:05 **Protocol:** EPA/821/R-02-014 (2002) **Sample Source:** NPDES Permit #
Sample Date: 25 Sep-20 16:47 **Material:** Product **Sample Station:**

Conc-mg/L	Code	Rep	Pos	# Exposed	1d Survival	2d Survival	3d Survival	4d Survival	5d Survival	6d Survival	7d Survival	Total Wgt-mg	Tare Wgt-mg	Pan Count	Total Females	Gravid
0	LP	1	7	5							5	7.22	5.21	5		
0	LP	2	6	5							5	7.59	5.34	5		
0	LP	3	35	5							5	8.11	5.83	5		
0	LP	4	40	5							5	7.23	4.82	5		
0	LP	5	4	5							5	6.81	4.9	5		
0	LP	6	26	5							5	7.16	4.94	5		
0	LP	7	32	5							5	7.48	5.68	5		
0	LP	8	29	5							5	6.8	4.87	5		
0.0025		1	20	5							5	7.68	5.95	5		
0.0025		2	30	5							5	6.74	4.97	5		
0.0025		3	36	5							5	7.23	5.21	5		
0.0025		4	43	5							5	6.65	4.68	5		
0.0025		5	13	5							5	6.48	4.48	5		
0.0025		6	44	5							5	6.58	4.63	5		
0.0025		7	25	5							5	7.09	5.1	5		
0.0025		8	12	5							5	6.87	5.06	5		
0.005		1	22	5							5	7.75	5.55	5		
0.005		2	37	5							5	7.09	4.96	5		
0.005		3	18	5							5	7.06	4.89	5		
0.005		4	17	5							5	6.29	4.42	5		
0.005		5	10	5							5	6.37	4.32	5		
0.005		6	2	5							5	7.07	4.97	5		
0.005		7	28	5							5	5.98	4.23	5		
0.005		8	33	5							5	5.79	4.09	5		
0.01		1	21	5							5	7.42	6.16	5		
0.01		2	3	5							5	6.54	4.83	5		
0.01		3	19	5							5	5.75	4.31	5		
0.01		4	41	5							4	5.7	4.36	4		
0.01		5	47	5							5	6.86	5.13	5		
0.01		6	15	5							4	6.09	4.87	4		
0.01		7	14	5							5	6.16	4.96	5		
0.01		8	34	5							5	7.02	5.09	5		
0.015		1	8	5							3	6.46	5.75	3		
0.015		2	5	5							2	5.36	4.75	2		
0.015		3	11	5							2	6.02	5.59	2		
0.015		4	42	5							2	5.28	4.53	2		
0.015		5	38	5							3	5.86	4.97	3		
0.015		6	27	5							2	5.34	4.77	2		
0.015		7	48	5							3	5.91	5.18	3		
0.015		8	45	5							2	5.37	4.78	2		

CETIS Test Data Worksheet

Conc-mg/L	Code	Rep	Pos	# Exposed	1d Survival	2d Survival	3d Survival	4d Survival	5d Survival	6d Survival	7d Survival	Total Wgt-mg	Tare Wgt-mg	Pan Count	Total Females	Gravid
0.03		1	16	5							0	0	0	0		
0.03		2	23	5							0	0	0	0		
0.03		3	9	5							0	0	0	0		
0.03		4	24	5							0	0	0	0		
0.03		5	46	5							0	0	0	0		
0.03		6	1	5							0	0	0	0		
0.03		7	31	5							0	0	0	0		
0.03		8	39	5							0	0	0	0		

CETIS Analytical Report

Americamysis 7-d Survival, Growth and Fecundity Test

Environmental Enterprises USA, Inc.

Analysis ID:	05-7378-5217	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.9.7
Analyzed:	14 Oct-20 13:18	**Analysis:**	Nonparametric-Control vs Treatments	**Status Level:**	1
Edit Date:	14 Oct-20 13:14	**MD5 Hash:**	90C08A7B2173A1FC3E9BEF1BAD5D0FB	**Editor ID:**	006-654-742-5

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	TU	MSDu	PMSD
Angular (Corrected)	C > T	0.01	0.015	0.01225	---	0.08819	8.82%

Steel Many-One Rank Sum Test

Control	vs	Conc-mg/L	Test Stat	Critical	Ties	DF	P-Type	P-Value	Decision(α:5%)
Control		0.0025	68	47	1	14	CDF	0.8000	Non-Significant Effect
		0.005	68	47	1	14	CDF	0.8000	Non-Significant Effect
		0.01	60	47	1	14	CDF	0.4450	Non-Significant Effect
		0.015*	36	47	0	14	CDF	0.0015	Significant Effect

Test Acceptability Criteria

		TAC Limits			
Attribute	Test Stat	Lower	Upper	Overlap	Decision
Control Resp	1	0.8	>>	Yes	Passes Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	2.10187	0.525469	4	114.2	<1.0E-05	Significant Effect
Error	0.161084	0.0046024	35			
Total	2.26296		39			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test				Indeterminate
Distribution	Shapiro-Wilk W Normality Test	0.823	0.9236	2.1E-05	Non-Normal Distribution

7d Survival Rate Summary

Conc-mg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LP	8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
0.0025		8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
0.005		8	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.00%	0.00%
0.01		8	0.9500	0.8726	1.0000	1.0000	0.8000	1.0000	0.0327	9.75%	5.00%
0.015		8	0.4750	0.3885	0.5615	0.4000	0.4000	0.6000	0.0366	21.79%	52.50%
0.03		8	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	---	100.00%

Angular (Corrected) Transformed Summary

Conc-mg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LP	8	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	0.0000	0.00%	0.00%
0.0025		8	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	0.0000	0.00%	0.00%
0.005		8	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	0.0000	0.00%	0.00%
0.01		8	1.2860	1.1940	1.3780	1.3450	1.1070	1.3450	0.0390	8.57%	4.43%
0.015		8	0.7602	0.6731	0.8474	0.6847	0.6847	0.8861	0.0368	13.71%	43.49%
0.03		8	0.2255	0.2255	0.2255	0.2255	0.2255	0.2255	0.0000	0.00%	83.24%

7d Survival Rate Detail

Conc-mg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	LP	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.0025		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.005		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
0.01		1.0000	1.0000	1.0000	0.8000	1.0000	0.8000	1.0000	1.0000
0.015		0.6000	0.4000	0.4000	0.4000	0.6000	0.4000	0.6000	0.4000
0.03		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Analyst: MH QA: ME

Americamysis 7-d Survival, Growth and Fecundity Test — **Environmental Enterprises USA, Inc.**

Analysis ID:	05-7378-5217	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.9.7
Analyzed:	14 Oct-20 13:18	**Analysis:**	Nonparametric-Control vs Treatments	**Status Level:**	1
Edit Date:	14 Oct-20 13:14	**MD5 Hash:**	90C08A7B2173A1FC3E9BEF1BAD5D0FB	**Editor ID:**	006-654-742-5

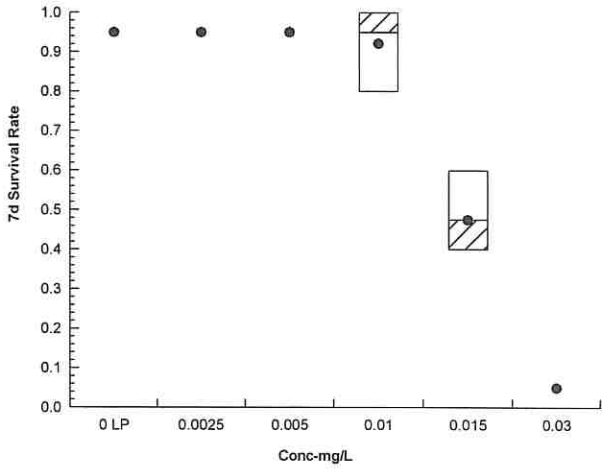
Angular (Corrected) Transformed Detail

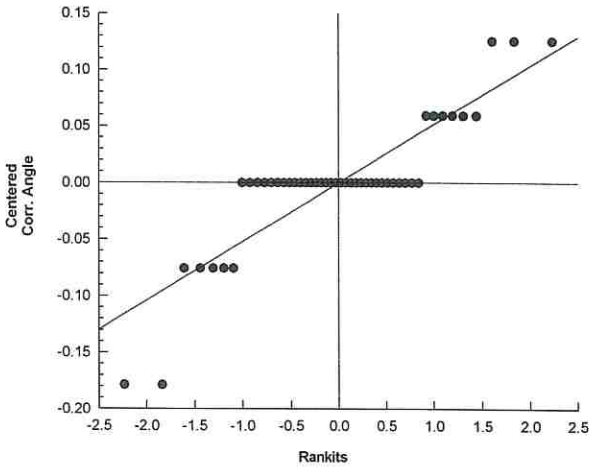
Conc-mg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	LP	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450
0.0025		1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450
0.005		1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450	1.3450
0.01		1.3450	1.3450	1.3450	1.1070	1.3450	1.1070	1.3450	1.3450
0.015		0.8861	0.6847	0.6847	0.6847	0.8861	0.6847	0.8861	0.6847
0.03		0.2255	0.2255	0.2255	0.2255	0.2255	0.2255	0.2255	0.2255

7d Survival Rate Binomials

Conc-mg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	LP	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
0.0025		5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
0.005		5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
0.01		5/5	5/5	5/5	4/5	5/5	4/5	5/5	5/5
0.015		3/5	2/5	2/5	2/5	3/5	2/5	3/5	2/5
0.03		0/5	0/5	0/5	0/5	0/5	0/5	0/5	0/5

Graphics





CETIS Analytical Report

Test Code/ID: ab166220 / 19-5476-7216

Americamysis 7-d Survival, Growth and Fecundity Test — **Environmental Enterprises USA, Inc.**

Analysis ID:	16-7391-4238	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.9.7
Analyzed:	14 Oct-20 13:19	**Analysis:**	Parametric-Control vs Treatments	**Status Level:**	1
Edit Date:	14 Oct-20 13:14	**MD5 Hash:**	C1E66A6B4A47E6EB36B7869F9A979057	**Editor ID:**	006-654-742-5

Data Transform	Alt Hyp	NOEL	LOEL	TOEL	TU	MSDu	PMSD
Untransformed	C > T	0.005	0.01	0.007071	---	0.04501	10.71%

Dunnett Multiple Comparison Test

Control	vs	Conc-mg/L	Test Stat	Critical	MSD	DF	P-Type	P-Value	Decision(α:5%)
Control		0.0025	1.878	2.154	0.045	14	CDF	0.0851	Non-Significant Effect
		0.005	1.005	2.154	0.045	14	CDF	0.3258	Non-Significant Effect
		0.01*	5.957	2.154	0.045	14	CDF	<1.0E-05	Significant Effect

Test Acceptability Criteria

		TAC Limits			
Attribute	**Test Stat**	**Lower**	**Upper**	**Overlap**	**Decision**
PMSD	0.1071	0.11	0.37	Yes	Below Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0715894	0.0238631	3	13.66	1.1E-05	Significant Effect
Error	0.0489265	0.0017474	28			
Total	0.120516		31			

ANOVA Assumptions Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variance	Bartlett Equality of Variance Test	4.553	11.34	0.2076	Equal Variances
Distribution	Shapiro-Wilk W Normality Test	0.9547	0.9081	0.1963	Normal Distribution

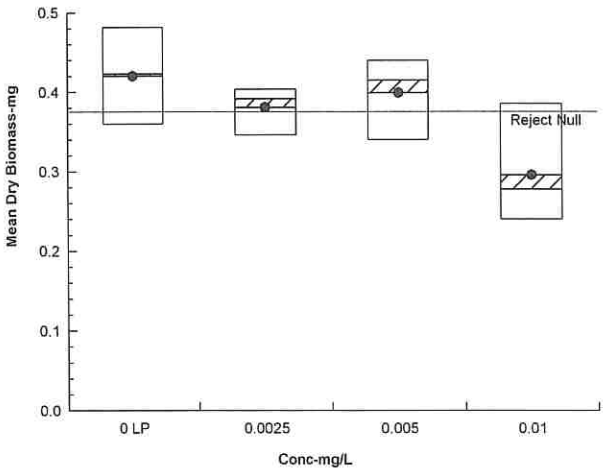
Mean Dry Biomass-mg Summary

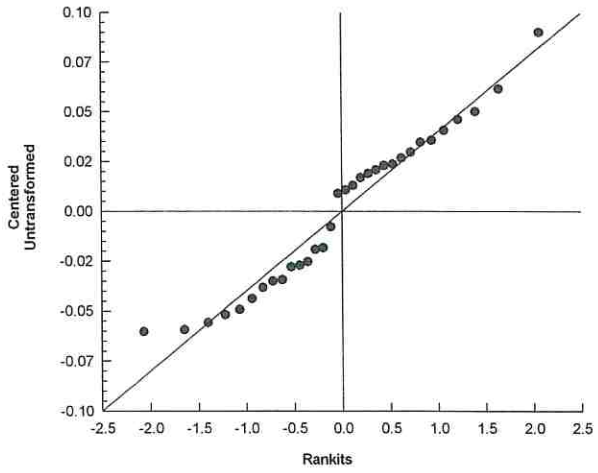
Conc-mg/L	Code	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	LP	8	0.4202	0.384	0.4565	0.423	0.36	0.482	0.01532	10.31%	0.00%
0.0025		8	0.381	0.3617	0.4003	0.392	0.346	0.404	0.008177	6.07%	9.34%
0.005		8	0.3992	0.3666	0.4319	0.415	0.34	0.44	0.01383	9.79%	5.00%
0.01		8	0.2958	0.2496	0.3419	0.278	0.24	0.386	0.01952	18.67%	29.63%

Mean Dry Biomass-mg Detail

Conc-mg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	LP	0.402	0.45	0.456	0.482	0.382	0.444	0.36	0.386
0.0025		0.346	0.354	0.404	0.394	0.4	0.39	0.398	0.362
0.005		0.44	0.426	0.434	0.374	0.41	0.42	0.35	0.34
0.01		0.252	0.342	0.288	0.268	0.346	0.244	0.24	0.386

Graphics





CETIS Summary Report

Americamysis 7-d Survival, Growth and Fecundity Test — **Environmental Enterprises USA, Inc.**

Multiple Comparison Summary

Analysis ID	Endpoint	Comparison Method	✓	NOEL	LOEL	TOEL	PMSD	S
08-6426-4087	Mean Dry Weight-mg	Dunnett Multiple Comparison Test	✓	0.005	0.01	0.007071	11.3%	1

Test Acceptability

				TAC Limits			
Analysis ID	Endpoint	Attribute	Test Stat	Lower	Upper	Overlap	Decision
08-6426-4087	Mean Dry Weight-mg	Control Resp	0.4202	0.2	>>	Yes	Passes Criteria

Mean Dry Weight-mg Summary

Conc-mg/L	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LP	8	0.4202	0.384	0.4565	0.36	0.482	0.01532	0.04333	10.31%	0.00%
0.0025		8	0.381	0.3617	0.4003	0.346	0.404	0.008177	0.02313	6.07%	9.34%
0.005		8	0.3992	0.3666	0.4319	0.34	0.44	0.01383	0.0391	9.79%	5.00%
0.01		8	0.3118	0.27	0.3535	0.24	0.386	0.01766	0.04996	16.02%	25.82%
0.015		8	0.2815	0.2395	0.3234	0.215	0.375	0.01773	0.05015	17.82%	33.03%

Mean Dry Weight-mg Detail — MD5: 5534C6EE87854CD68A1A26F3AD7FAC29

Conc-mg/L	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	LP	0.402	0.45	0.456	0.482	0.382	0.444	0.36	0.386
0.0025		0.346	0.354	0.404	0.394	0.4	0.39	0.398	0.362
0.005		0.44	0.426	0.434	0.374	0.41	0.42	0.35	0.34
0.01		0.252	0.342	0.288	0.335	0.346	0.305	0.24	0.386
0.015		0.2367	0.305	0.215	0.375	0.2967	0.285	0.2433	0.295
0.03		---	---	---	---	---	---	---	---

Environmental Enterprises USA, Inc.

APPENDIX D

ENVIRONMENTAL ENTERPRISES USA, INC.
58485 Pearl Acres Rd., Suite D
Slidell, Louisiana 70461
(985) 646-2787

RECEIVED 10-7-20

Kit No. Box

CHAIN - OF - CUSTODY RECORD

Client: Corrosion Innovations
Address: 4020 Strawberry Road
Pasadena, TX 77504

Contact Person: Jim Knocke
Phone#: 423-604-1919
P.O. #
Email: jim@corrinnovations.com
Project:

Special Handling Request
( ) RUSH
(✓) VERBAL
( ) OTHER

Sample Description	Date Collected	Time Collected	No. of Containers	Analysis Request	S/R No. SR-12827-20-NO1	Lab No.
Corr-Ze 100	9-25-20	4:47pm	1	*A. bahia* 96-hr Acute RFT, Method 2007.0 & *M. beryllina* 96-hr Acute RFT, Method 2006.0 (A)	Lot # 1105816640	Q-16601-20(RFT)
				A. bahia 7-day Chronic, Method 1007.0 & *M. beryllina* 7-day Chronic, Method 1006.0	SR-12827-20-NO1 "	Q-16602-20(7day)

Collected By: Jim Knocke	Date & Time 9-25-20 4:47pm	Relinquished By: Jim Knocke	Date & Time 5:08pm 9-25-20pm
Received By: UPS, Pasadena, TX	Date & Time 5:08pm 9-25-20	Relinquished By:	Date & Time
Received By: EE	Date & Time 9-26-20 1015	Relinquished By: EE	Date & Time 9-26-20 1025
Received By: Michael Ellis	Date & Time 9/29/20 1030	Relinquished By:	Date & Time
Received By:	Date & Time error 9/29/20 ME	Relinquished By:	Date & Time

(A) wrong date 10-7-20 JP

25.8°C SU
9-26-20 ME

ZIAP96W 031488 $159

JAMES KNOCKE
(423) 304-1919
THE UPS STORE #6942
STE 140
6443 FAIRMONT PKWY
PASADENA TX 77505-4220

10 LBS 1 OF 1
SHP WT: 10 LBS
DWT: 13,13,13
DATE: 25 SEP 2020

SHIP TO: JENNIFER GRIFFITH
ENVIRONMENTAL ENTERPRISES USA, INC.
58485 PEARL ACRES RD

SLIDELL LA 70461-5400

LA 701 9-01

UPS GROUND
TRACKING #: 1Z 1A0 96W 03 1488 8159

BILLING: P/P

ISH 13.08H ZZP 450 31.5V 07/2020

ENVIRONMENTAL ENTERPRISES USA, INC.
58485 Pearl Acres Rd., Suite D
Slidell, Louisiana 70461
(985) 646-2787

RECEIVED 10-1-20

Kit No. _____

CHAIN - OF - CUSTODY RECORD

Client: Corrosion Innovations
Address: 4020 Strawberry Road
Pasadena, TX 77504

Contact Person: Jim Knocke
Phone#: 423-604-1919
P.O. #
Email: jim@corrinnovations.com
Project: Aquatic Toxicity ; Corr-Ze 100

Special Handling Request
( ) RUSH
(✓) VERBAL
( ) OTHER

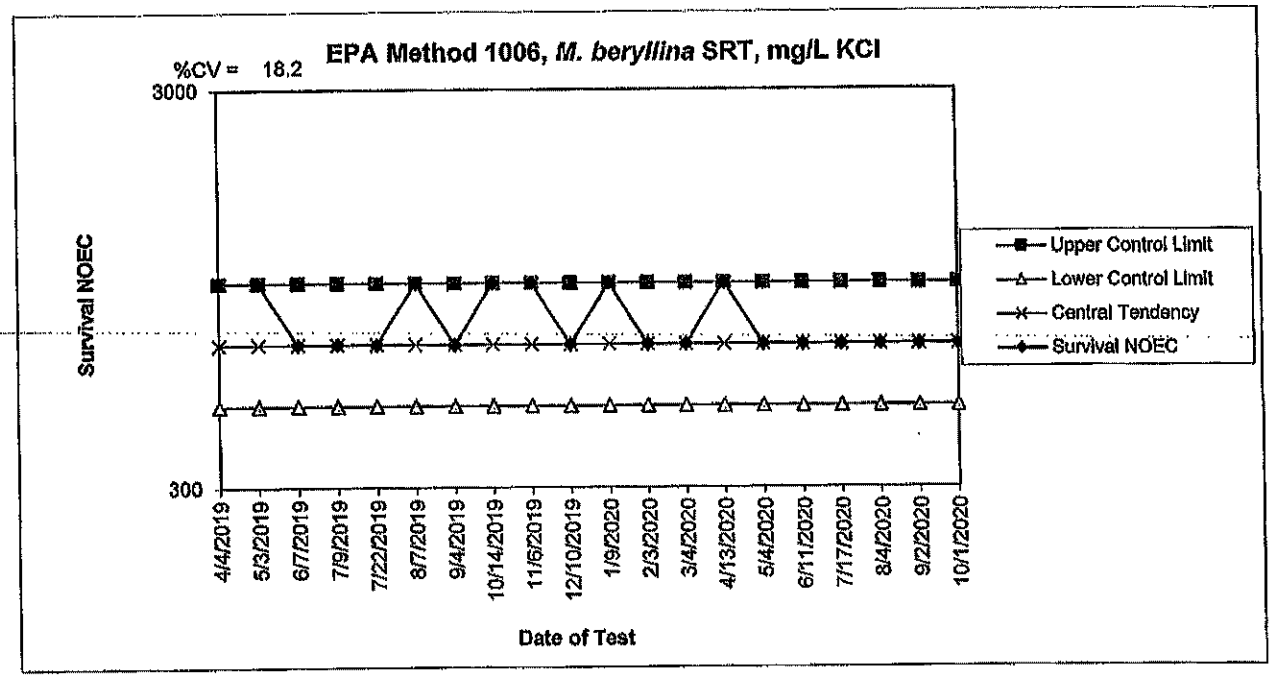
Sample Description	Date Collected	Time Collected	No. of Containers	Analysis Request	S/R No.	Lab No.
Corr-Ze 100	9-21-2020	5:03PM	1	*A. bahia* 96-hr Acute RFT, Method 2007.0 & *M. beryllina* 96-hr Acute RFT, Method 2006.0	1105816640 SR-12792-20-Ni	Q-1061-20(RFT)
				A. bahia 7-day Chronic, Method 1007.0 & *M. beryllina* 7-day Chronic, Method 1006.0	1c	Q-1064-20(RFT)

Collected By: Jim Knocke	Date & Time 5:03PM 9-21-2020	Relinquished By: Jim Knocke to UPS	Date & Time 9-21-2020 5:45PM
Received By: Jennifer Griffith	Date & Time 09-28-20 10:00	Relinquished By: Jennifer Griffith	Date & Time 09-28-20 10:30
Received By: Michelle Dean	Date & Time 9/28/20 1040	Relinquished By:	Date & Time
Received By:	Date & Time	Relinquished By:	Date & Time
Received By:	Date & Time	Relinquished By:	Date & Time

USPS Tracking # 9400 1118 9956 4465 7527 23

Environmental Enterprises USA, Inc.

APPENDIX E



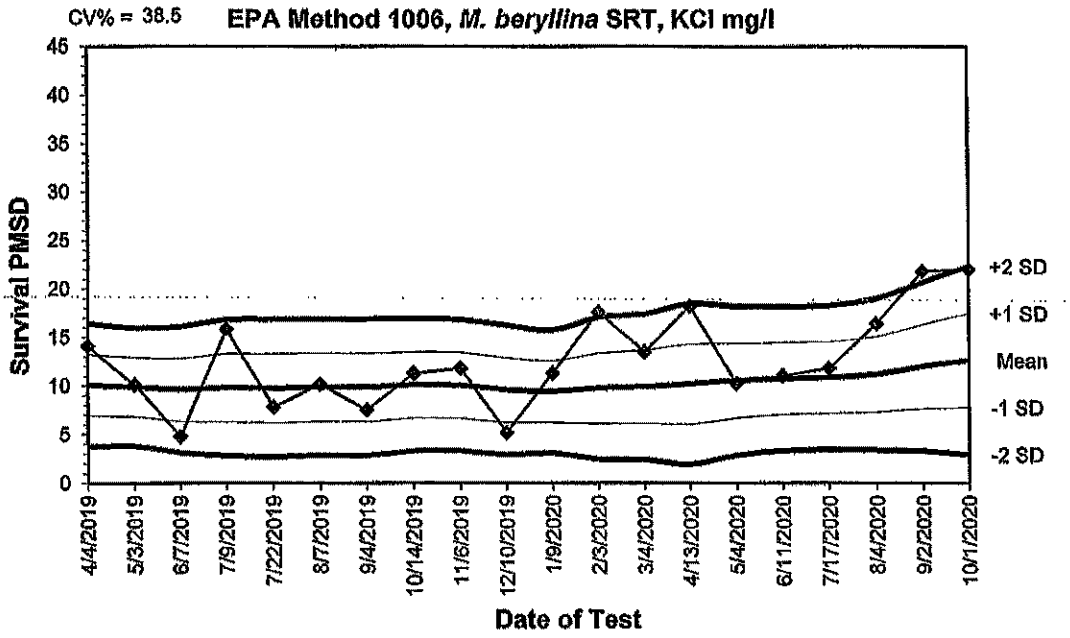
Dilution Series = 480, 686, 980, 1400, & 2000 mg/l KCl; Dilution Factor = 0.7

Organism Source	Test #	Test Date	Survival NOEC	% Control Survival	Survival PMSD	Upper Control Limit	Lower Control Limit	Central Tendency	SRT Lot #
EE USA	MN1904	4/4/2019	980	100.0	14.1	980	480	686	177483
EE USA	MN1905	5/3/2019	980	97.5	10.1	980	480	686	177483
EE USA	MN1906	6/7/2019	686	100.0	4.8	980	480	686	177483
EE USA	MN1907	7/9/2019	686	100.0	15.8	980	480	686	177483
EE USA	MN1908	7/22/2019	686	100.0	7.8	980	480	686	C799290
EE USA	MN1909	8/7/2019	980	100.0	10.1	980	480	686	C799290
EE USA	MN1910	9/4/2019	686	100.0	7.5	980	480	686	C799290
EE USA	MN1912	10/14/2019	980	97.5	11.3	980	480	686	C799290
EE USA	MN1913	11/6/2019	980	95.0	11.8	980	480	686	C799290
EE USA	MN1914	12/10/2019	686	100.0	5.2	980	480	686	C799290
EE USA	MN2001	1/9/2020	980	97.5	11.3	980	480	686	181155
EE USA	MN2002	2/3/2020	686	95.0	17.6	980	480	686	181155
EEUSA	MN2003	3/4/2020	686	97.5	13.5	980	480	686	181155
EE USA	MN2004	4/13/2020	980	97.5	18.2	980	480	686	181155
EE USA	MN2005	5/4/2020	686	100.0	10.2	980	480	686	181155
EE USA	MN2006	6/11/2020	686	97.5	11.0	980	480	686	181155
EE USA	MN2007	7/17/2020	686	95.0	11.8	980	480	686	181155
EE USA	MN2008	8/4/2020	686	100.0	16.4	980	480	686	181155
EE USA	MN2009	9/2/2020	686	87.5	21.8	980	480	686	181155/ 19190172
EE USA	MN2010	10/1/2020	686	92.5	22.0	980	480	686	19190172

MN1907 - The central tendency shifted from 980 to 686 mg/L KCl.

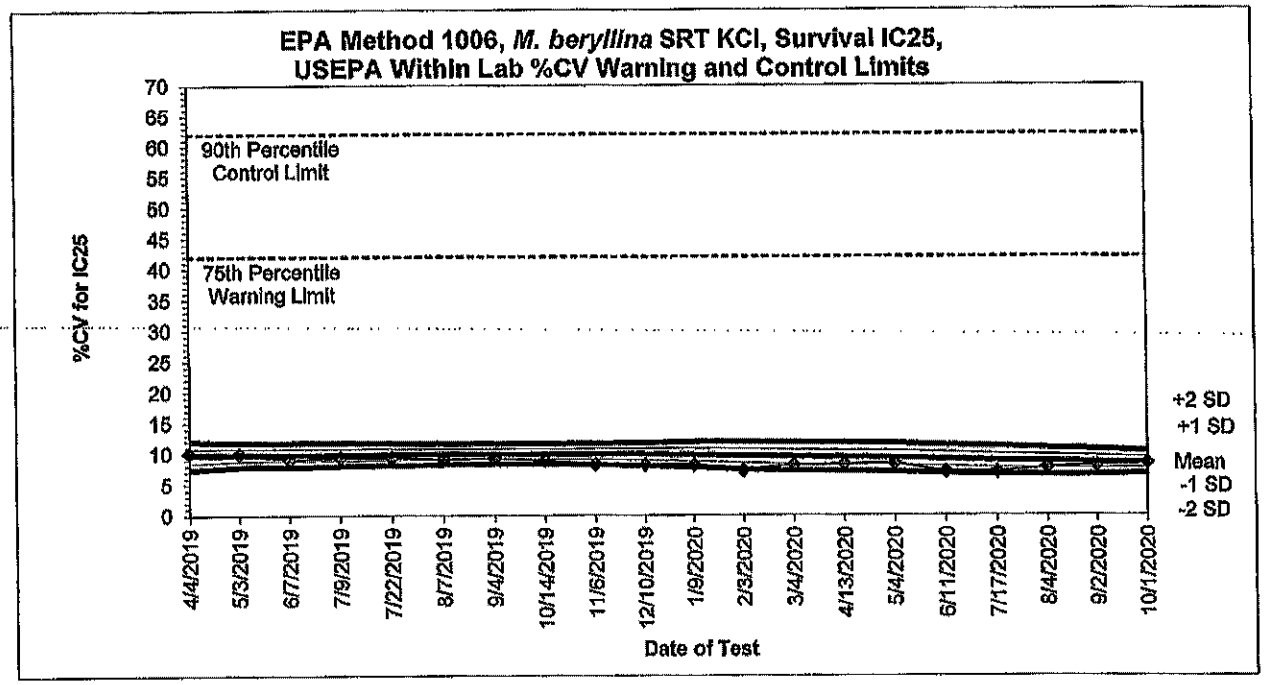
MN1911 - Training test.

QAQC by: MH 10/13/20



Test #	Test Date	Survival PMSD	Mean	-1 SD	-2 SD	+1 SD	+2 SD	SRT Lot #
MN1904	4/4/2019	14.1	10.1	6.9	3.8	13.3	16.5	177483
MN1905	5/3/2019	10.1	9.9	6.9	3.8	13.0	16.0	177483
MN1906	6/7/2019	4.8	9.6	6.4	3.1	12.9	16.1	177483
MN1907	7/9/2019	15.8	9.8	6.3	2.8	13.3	16.8	177483
MN1908	7/22/2019	7.8	9.8	6.2	2.7	13.3	16.8	C799290
MN1909	8/7/2019	10.1	9.9	6.4	2.9	13.4	16.9	C799290
MN1910	9/4/2019	7.5	9.9	6.3	2.8	13.4	16.9	C799290
MN1912	10/14/2019	11.3	10.1	6.7	3.3	13.5	16.9	C799290
MN1913	11/6/2019	11.8	10.1	6.7	3.3	13.4	16.8	C799290
MN1914	12/10/2019	5.2	9.6	6.2	2.9	12.9	16.2	C799290
MN2001	1/9/2020	11.3	9.4	6.3	3.1	12.6	15.7	181155
MN2002	2/3/2020	17.6	9.8	6.1	2.5	13.4	17.1	181155
MN2003	3/4/2020	13.5	9.9	6.2	2.4	13.7	17.4	181155
MN2004	4/13/2020	18.2	10.2	6.1	1.9	14.3	18.5	181155
MN2005	5/4/2020	10.2	10.5	6.7	2.9	14.4	18.2	181155
MN2006	6/11/2020	11.0	10.8	7.0	3.3	14.5	18.2	181155
MN2007	7/17/2020	11.8	10.9	7.2	3.5	14.6	18.3	181155
MN2008	8/4/2020	16.4	11.2	7.3	3.4	15.1	19.0	181155
MN2009	9/2/2020	21.8	12.0	7.7	3.3	16.4	20.7	181155/ 19190172
MN2010	10/1/2020	22.0	12.6	7.8	2.9	17.5	22.3	19190172

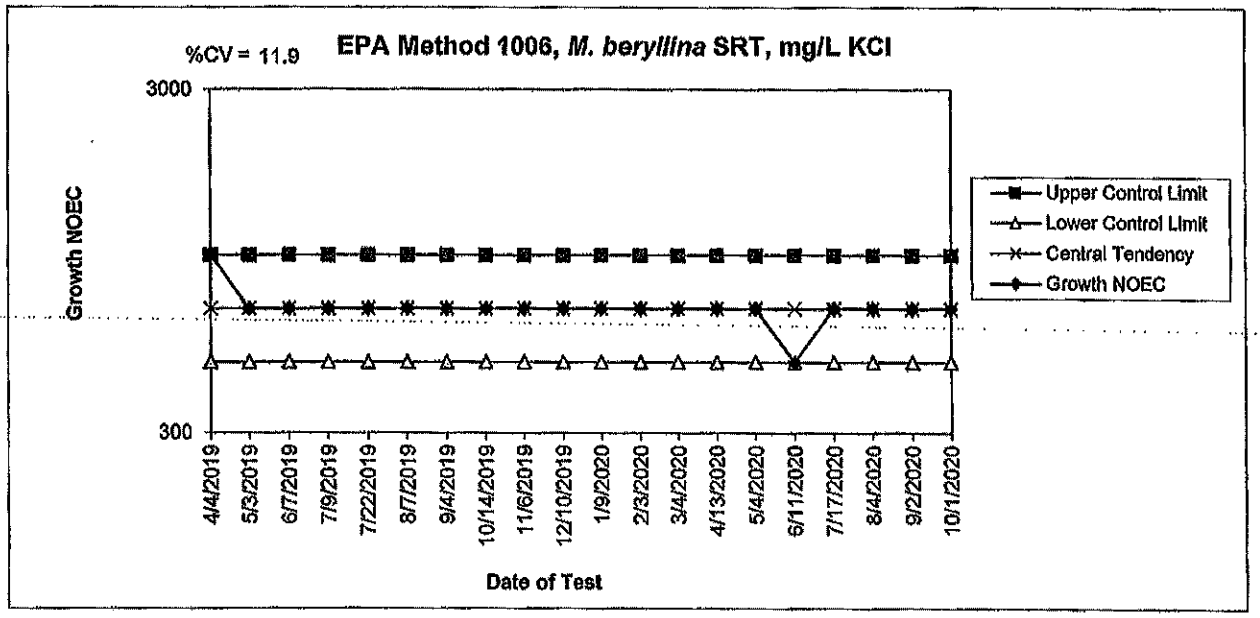
QAQC by: MAO 10/13/20



15%CV = 10th percentile, 22%CV = 25th percentile, 35%CV = 60th percentile. CV percentile values from Appendix B-6, Table B-1 of EPA's "Understanding and Accounting for Method Variability in WET Applications Under the NPDES Program", June 30, 2000.

Test #	Test Date	%CV for IC25	Mean %CV	-1 SD	-2 SD	+1 SD	+2 SD	75th Warning Limit	90th Control Limit	SRT Lot #
MN1904	4/4/2019	10.1	9.7	8.5	7.4	10.8	12.0	42.0	62.0	177483
MN1905	5/3/2019	10.0	9.8	8.8	7.8	10.8	11.8	42.0	62.0	177483
MN1906	6/7/2019	9.0	9.8	8.8	7.8	10.8	11.8	42.0	62.0	177483
MN1907	7/9/2019	9.4	9.9	8.9	8.0	10.8	11.8	42.0	62.0	177483
MN1908	7/22/2019	9.4	9.9	9.0	8.1	10.8	11.7	42.0	62.0	C799290
MN1909	8/7/2019	9.0	9.9	9.1	8.2	10.8	11.7	42.0	62.0	C799290
MN1910	9/4/2019	9.2	10.0	9.1	8.3	10.6	11.6	42.0	62.0	C799290
MN1912	10/14/2019	8.9	10.0	9.1	8.3	10.8	11.6	42.0	62.0	C799290
MN1913	11/6/2019	8.3	10.0	9.1	8.2	10.8	11.7	42.0	62.0	C799290
MN1914	12/10/2019	8.2	9.9	8.9	8.0	10.8	11.8	42.0	62.0	C799290
MN2001	1/9/2020	8.2	9.8	8.8	7.8	10.8	11.9	42.0	62.0	181155
MN2002	2/3/2020	7.3	9.6	8.5	7.4	10.8	11.9	42.0	62.0	181155
MN2003	3/4/2020	8.1	9.5	8.4	7.2	10.7	11.8	42.0	62.0	181155
MN2004	4/13/2020	8.2	9.4	8.2	7.1	10.6	11.7	42.0	62.0	181155
MN2005	5/4/2020	8.4	9.3	8.1	7.0	10.5	11.6	42.0	62.0	181155
MN2006	6/11/2020	7.0	9.1	7.9	6.8	10.2	11.4	42.0	62.0	181155
MN2007	7/17/2020	7.0	8.9	7.7	6.6	10.0	11.2	42.0	62.0	181155
MN2008	8/4/2020	7.7	8.7	7.6	6.5	9.8	10.9	42.0	62.0	181155
MN2009	9/2/2020	8.0	8.6	7.6	6.6	9.6	10.6	42.0	62.0	181155/ 19190172
MN2010	10/1/2020	8.4	8.5	7.6	6.7	9.4	10.3	42.0	62.0	19190172

QAQC by: MKO 10/13/20

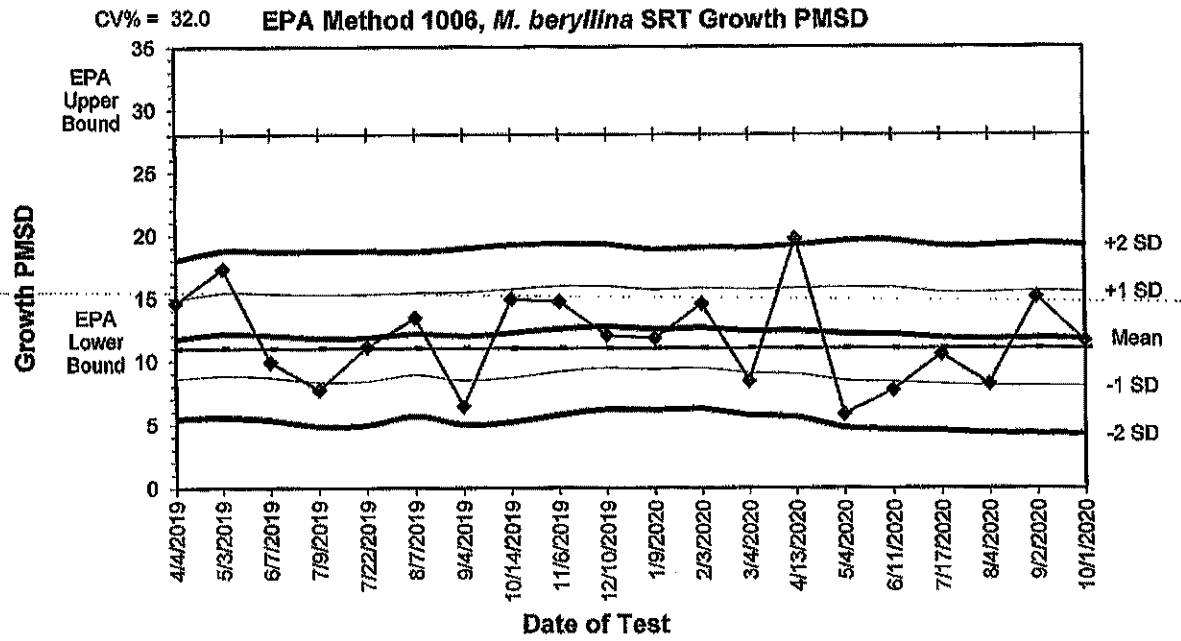


Dilution Series = 480, 686, 980, 1400, & 2000 mg/l KCl; Dilution Factor = 0.7

Test #	Test Date	Growth NOEC	Mean Control Growth	Growth PMSD	Upper Control Limit	Lower Control Limit	Central Tendency	SRT Lot #
MN1904	4/4/2019	980	1.373	14.6	980	480	686	177483
MN1905	5/3/2019	686	1.666	17.3	980	480	686	177483
MN1906	6/7/2019	686	1.745	9.9	980	480	686	177483
MN1907	7/9/2019	686	1.633	7.7	980	480	686	177483
MN1908	7/22/2019	686	1.508	11.1	980	480	686	C799290
MN1909	8/7/2019	686	1.336	13.4	980	480	686	C799290
MN1910	9/4/2019	686	1.769	6.4	980	480	686	C799290
MN1912	10/14/2019	686	1.259	14.9	980	480	686	C799290
MN1913	11/6/2019	686	1.339	14.7	980	480	686	C799290
MN1914	12/10/2019	686	1.360	12.0	980	480	686	C799290
MN2001	1/9/2020	686	1.362	11.8	980	480	686	181155
MN2002	2/3/2020	686	1.463	14.5	980	480	686	181155
MN2003	3/4/2020	686	1.877	8.4	980	480	686	181155
MN2004	4/13/2020	686	1.666	19.7	980	480	686	181155
MN2005	5/4/2020	686	1.798	5.8	980	480	686	181155
MN2006	6/11/2020	480	1.533	7.7	980	480	686	181155
MN2007	7/17/2020	686	1.575	10.5	980	480	686	181155
MN2008	8/4/2020	686	1.405	8.2	980	480	686	181155
MN2009	9/2/2020	686	1.578	15.1	980	480	686	181155/ 19190172
MN2010	10/1/2020	686	1.232	11.6	980	480	686	19190172

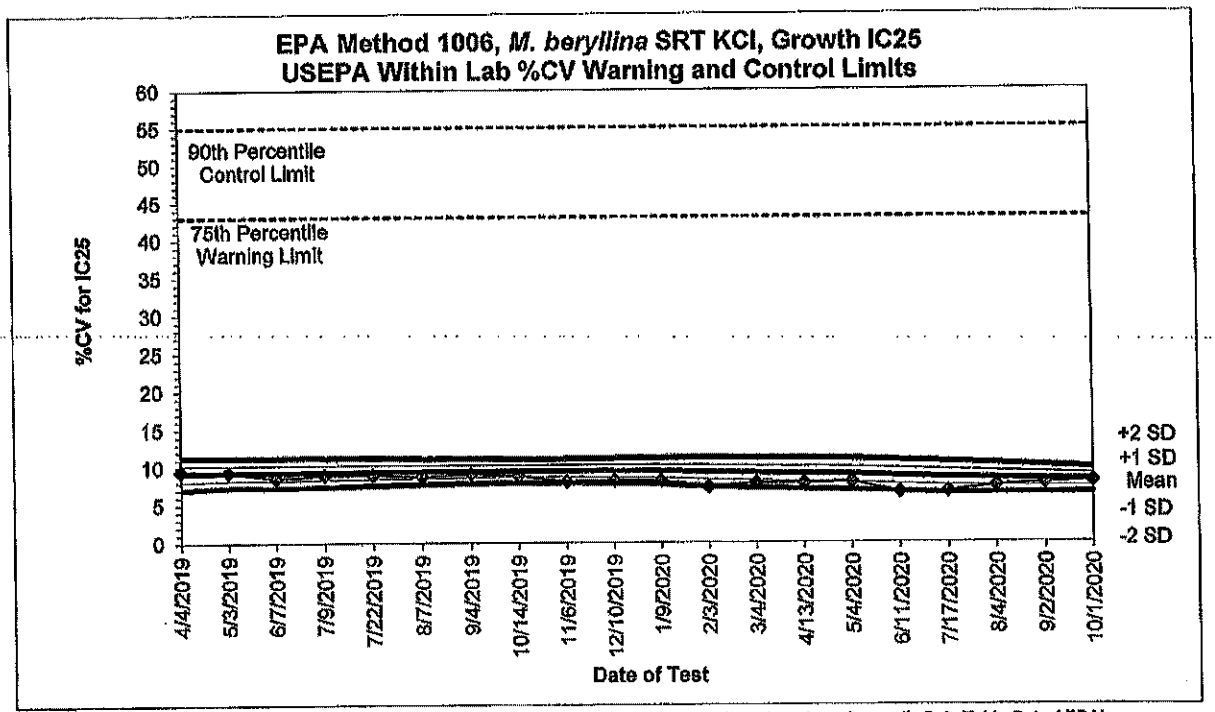
MN1911 - Training test.

QAQC by: AMO 10/13/20



Test #	Test Date	Growth PMSD	Mean PMSD	-1 SD	-2 SD	+1 SD	+2 SD	Upper PMSD Bound	Lower PMSD Bound	SRT Lot #
MN1904	4/4/2019	14.6	11.8	8.6	5.5	14.9	18.0	28	11	177483
MN1905	5/3/2019	17.3	12.2	8.9	5.6	15.5	18.8	28	11	177483
MN1906	6/7/2019	9.9	12.0	8.7	5.4	15.4	18.7	28	11	177483
MN1907	7/9/2019	7.7	11.8	8.3	4.8	15.3	18.7	28	11	177483
MN1908	7/22/2019	11.1	11.8	8.4	4.9	15.3	18.7	28	11	C799290
MN1909	8/7/2019	13.4	12.2	8.9	5.7	15.4	18.7	28	11	C799290
MN1910	9/4/2019	6.4	12.0	8.5	5.0	15.5	18.9	28	11	C799290
MN1912	10/14/2019	14.9	12.2	8.7	5.2	15.7	19.2	28	11	C799290
MN1913	11/6/2019	14.7	12.6	9.2	5.8	16.0	19.4	28	11	C799290
MN1914	12/10/2019	12.0	12.7	9.5	6.2	16.0	19.3	28	11	C799290
MN2001	1/9/2020	11.8	12.5	9.3	6.2	15.7	18.9	28	11	181155
MN2002	2/3/2020	14.5	12.6	9.4	6.2	15.8	19.0	28	11	181155
MN2003	3/4/2020	8.4	12.4	9.0	5.7	15.7	19.0	28	11	181155
MN2004	4/13/2020	19.7	12.4	9.0	5.6	15.8	19.2	28	11	181155
MN2005	5/4/2020	5.8	12.2	8.5	4.8	15.9	19.6	28	11	181155
MN2006	6/11/2020	7.7	12.1	8.4	4.6	15.9	19.6	28	11	181155
MN2007	7/17/2020	10.5	11.8	8.2	4.5	15.5	19.2	28	11	181155
MN2008	8/4/2020	8.2	11.8	8.0	4.3	15.5	19.2	28	11	181155
MN2009	9/2/2020	15.1	11.8	8.1	4.3	15.6	19.4	28	11	181155/ 19190172
MN2010	10/1/2020	11.6	11.8	8.0	4.2	15.5	19.3	28	11	19190172

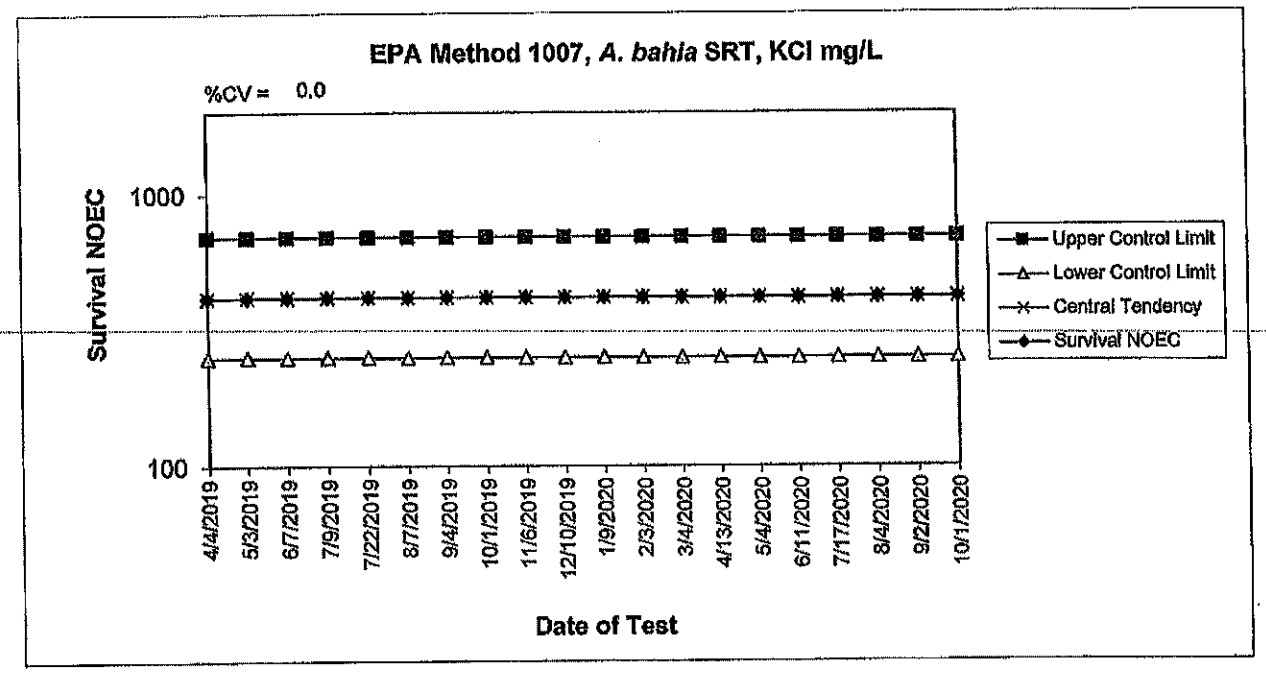
QAQC by: MMD 10/13/20



5%CV = 10th percentile, 18%CV = 25th percentile, 27%CV = 50th percentile. CV percentile values from Appendix B-6, Table B-1 of EPA's "Understanding and Accounting for Method Variability in WET Applications Under the NPDES Program", June 30, 2000.

Test #	Test Date	%CV for IC25	Mean %CV	-1 SD	-2 SD	+1 SD	+2 SD	75th Warning Limit	90th Control Limit	SRT Lot #
MN1904	4/4/2019	9.5	9.2	8.1	7.0	10.3	11.4	43.0	55.0	177483
MN1905	5/3/2019	9.3	9.3	8.3	7.3	10.3	11.3	43.0	55.0	177483
MN1906	6/7/2019	8.5	9.3	8.3	7.3	10.3	11.3	43.0	55.0	177483
MN1907	7/9/2019	8.9	9.3	8.4	7.4	10.3	11.2	43.0	55.0	177483
MN1908	7/22/2019	8.9	9.4	8.5	7.6	10.3	11.2	43.0	55.0	C799290
MN1909	8/7/2019	8.7	9.4	8.6	7.7	10.3	11.1	43.0	55.0	C799290
MN1910	9/4/2019	9.0	9.4	8.6	7.8	10.3	11.1	43.0	55.0	C799290
MN1912	10/14/2019	8.8	9.5	8.7	7.9	10.3	11.1	43.0	55.0	C799290
MN1913	11/6/2019	8.0	9.5	8.7	7.9	10.3	11.1	43.0	55.0	C799290
MN1914	12/10/2019	8.1	9.4	8.6	7.8	10.3	11.1	43.0	55.0	C799290
MN2001	1/9/2020	8.1	9.4	8.5	7.6	10.3	11.2	43.0	55.0	181155
MN2002	2/3/2020	7.3	9.3	8.3	7.3	10.2	11.2	43.0	55.0	181155
MN2003	3/4/2020	7.8	9.1	8.1	7.2	10.1	11.1	43.0	55.0	181155
MN2004	4/13/2020	7.8	9.0	8.0	7.0	10.0	11.1	43.0	55.0	181155
MN2005	5/4/2020	8.0	8.9	7.9	6.9	10.0	11.0	43.0	55.0	181155
MN2006	6/11/2020	6.6	8.7	7.7	6.6	9.8	10.8	43.0	55.0	181155
MN2007	7/17/2020	6.7	8.5	7.5	6.4	9.6	10.6	43.0	55.0	181155
MN2008	8/4/2020	7.4	8.4	7.4	6.4	9.4	10.3	43.0	55.0	181155
MN2009	9/2/2020	7.7	8.3	7.4	6.4	9.2	10.1	43.0	55.0	181155/ 19190172
MN2010	10/1/2020	8.0	8.2	7.3	6.5	9.0	9.8	43.0	55.0	19190172

QAQC by: MKO 10/13/20



Dilution Series = 150, 250, 416, 694, & 1157 mg/l KCl; Dilution Factor = 0.60

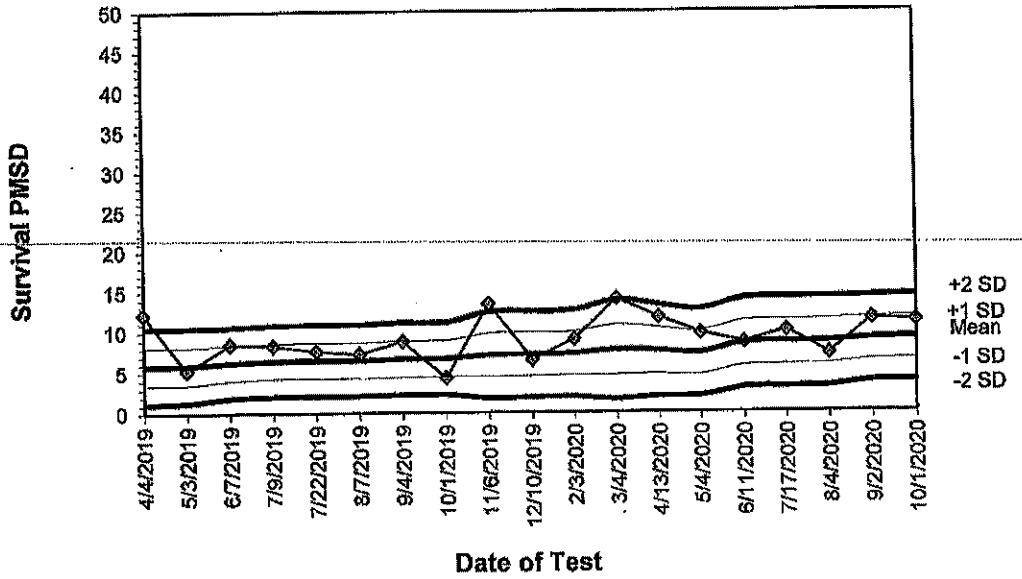
Organism Source	Test #	Test Date	Survival NOEC	% Control Survival	Survival PMSD	Upper Control Limit	Lower Control Limit	Central Tendency	SRT Lot #
EE USA	AB1904	4/4/2019	416	100.0	12.2	694	250	416	177483
EE USA	AB1905	5/3/2019	416	100.0	5.3	694	250	416	177483
EE USA	AB1906	6/7/2019	416	97.5	8.5	694	250	416	177483
EE USA	AB1907	7/9/2019	416	97.5	8.3	694	250	416	177483
EE USA	AB1908	7/22/2019	416	100.0	7.6	694	250	416	C799290
EE USA	AB1909	8/7/2019	416	100.0	7.3	694	250	416	C799290
EE USA	AB1910	9/4/2019	416	100.0	8.8	694	250	416	C799290
EE USA	AB1911	10/1/2019	416	100.0	4.3	694	250	416	C799290
EE USA	AB1912	11/6/2019	416	92.5	13.4	694	250	416	C799290
EE USA	AB1913	12/10/2019	416	97.5	6.6	694	250	416	C799290
EE USA	AB2001	1/9/2020	416	100.0	①NA	694	250	416	181155
EE USA	AB2002	2/3/2020	416	97.5	9.0	694	250	416	181155
EE USA	AB2003	3/4/2020	416	95.0	14.0	694	250	416	181155
EE USA	AB2004	4/13/2020	416	100.0	11.7	694	250	416	181155
EE USA	AB2005	5/4/2020	416	100.0	9.7	694	250	416	181155
EE USA	AB2006	6/11/2020	416	100.0	8.6	694	250	416	181155
EE USA	AB2007	7/17/2020	416	97.5	10.0	694	250	416	181155
EE USA	AB2008	8/4/2020	416	100.0	7.2	694	250	416	181155
EE USA	AB2009	9/2/2020	416	100.0	11.4	694	250	416	181155 / 19190172
EE USA	AB2010	10/1/2020	416	100.0	11.1	694	250	416	19190172

① - NA = Not Available. The PMSD could not be calculated for this data set. There was an "all or nothing" response pattern.

QAQC by: MMO 10/13/20

CV% = 29.3

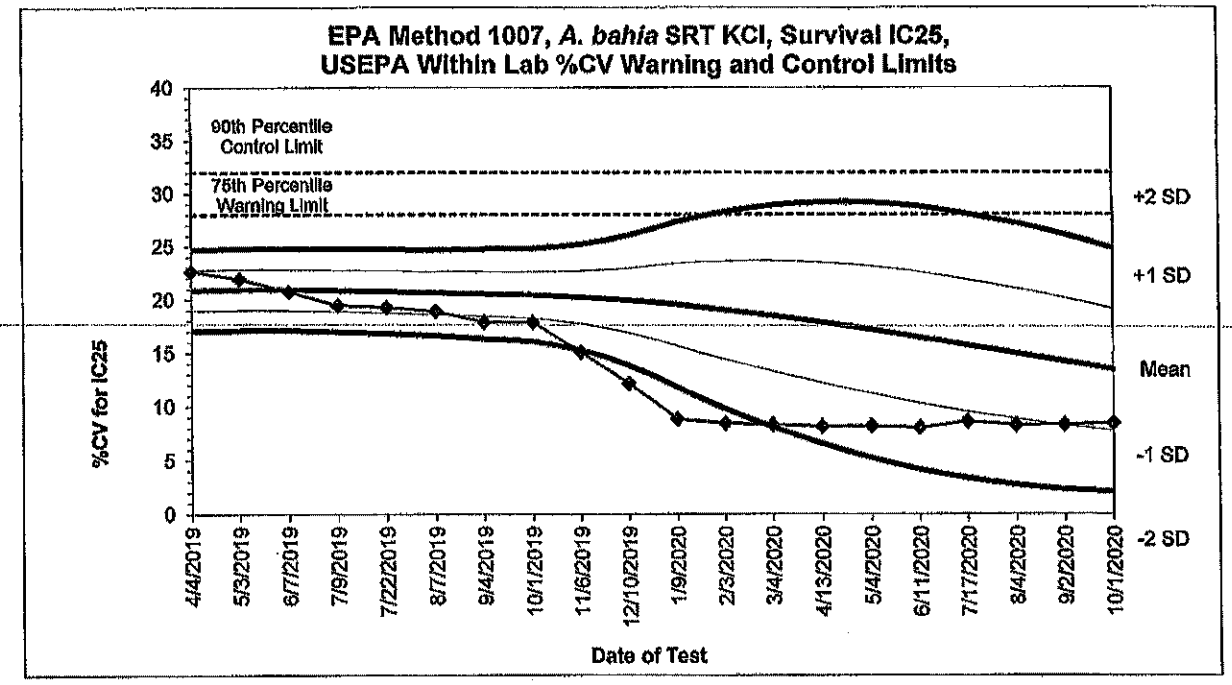
EPA Method 1007, *A. bahia* SRT Survival PMSD



Test #	Test Date	Survival PMSD	Mean PMSD	-1 SD	-2 SD	+1 SD	+2 SD	SRT Lot #
AB1904	4/4/2019	12.2	5.8	3.5	1.2	8.2	10.5	177483
AB1905	5/3/2019	5.3	5.9	3.6	1.3	8.2	10.5	177483
AB1906	6/7/2019	8.5	6.2	4.1	1.9	8.4	10.6	177483
AB1907	7/9/2019	8.3	6.4	4.3	2.1	8.6	10.8	177483
AB1908	7/22/2019	7.6	6.5	4.3	2.1	8.7	10.9	C799290
AB1909	8/7/2019	7.3	6.5	4.3	2.1	8.7	10.9	C799290
AB1910	9/4/2019	8.8	6.7	4.5	2.2	8.9	11.2	C799290
AB1911	10/1/2019	4.3	6.7	4.5	2.2	8.9	11.1	C799290
AB1912	11/6/2019	13.4	7.1	4.5	1.8	9.8	12.5	C799290
AB1913	12/10/2019	6.5	7.2	4.5	1.9	9.8	12.5	C799290
AB2001	1/9/2020	①NA						181155
AB2002	2/3/2020	9.0	7.3	4.6	2.0	9.9	12.6	181155
AB2003	3/4/2020	14.0	7.7	4.7	1.6	10.8	13.9	181155
AB2004	4/13/2020	11.7	7.6	4.8	2.0	10.4	13.2	181155
AB2005	5/4/2020	9.7	7.3	4.7	2.0	10.0	12.7	181155
AB2006	6/11/2020	8.6	8.5	5.8	3.0	11.3	14.0	181155
AB2007	7/17/2020	10.0	8.6	5.8	3.1	11.4	14.1	181155
AB2008	8/4/2020	7.2	8.6	5.9	3.1	11.4	14.1	181155
AB2009	9/2/2020	11.4	9.0	6.4	3.8	11.6	14.2	181155 / 19190172
AB2010	10/1/2020	11.1	9.1	6.5	3.9	11.7	14.4	19190172

①NA - Not applicable. The PMSD could not be calculated for this data set. There was an "all or nothing" response pattern.

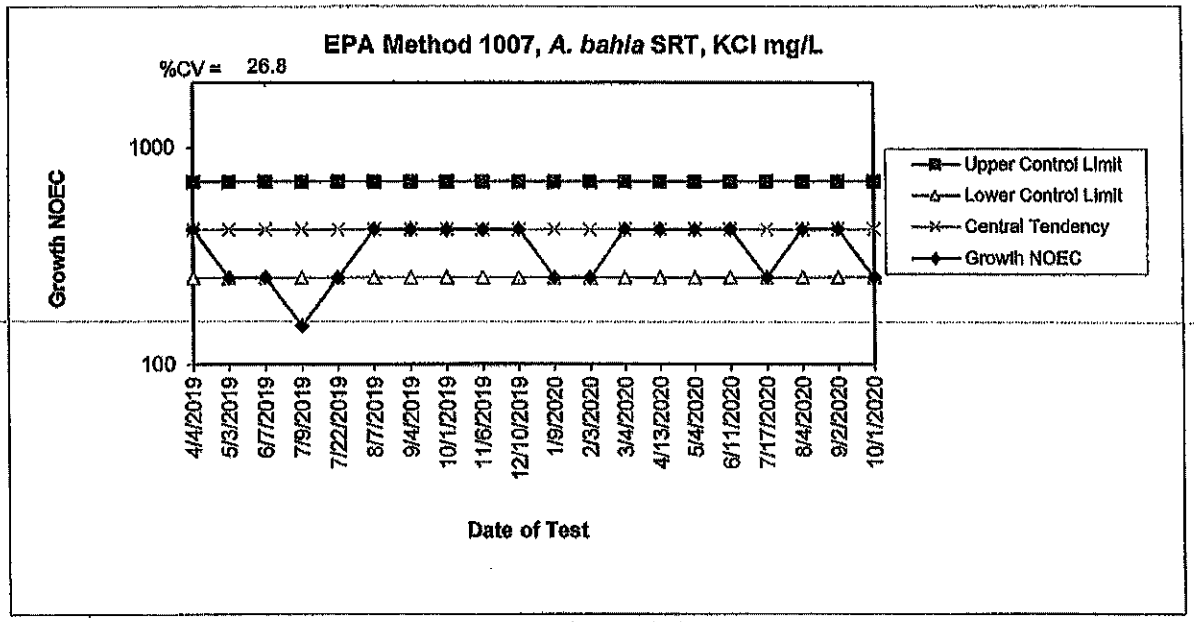
QAQC by: MMO 10/13/20



17%CV = 10th percentile, 17%CV = 25th percentile, 21%CV = 50th percentile. CV percentile values from Appendix B-6, Table B-1 of EPA's *"Understanding and Accounting for Method Variability in WET Applications Under the NPDES Program"*, June 30, 2000.

Test #	Test Date	%CV for IC25	Mean %CV	-1 SD	-2 SD	+1 SD	+2 SD	75th Warning Limit	90th Control Limit	SRT Lot #
AB1904	4/4/2019	22.7	20.9	19.0	17.1	22.8	24.7	28.0	32.0	177483
AB1905	5/3/2019	21.9	21.0	19.0	17.1	22.9	24.8	28.0	32.0	177483
AB1906	6/7/2019	20.7	20.9	19.0	17.1	22.9	24.8	28.0	32.0	177483
AB1907	7/9/2019	19.5	20.9	18.9	17.0	22.8	24.8	28.0	32.0	177483
AB1908	7/22/2019	19.3	20.8	18.8	16.8	22.7	24.7	28.0	32.0	C799290
AB1909	8/7/2019	18.9	20.6	18.6	16.6	22.7	24.7	28.0	32.0	C799290
AB1910	9/4/2019	17.9	20.5	18.4	16.3	22.6	24.8	28.0	32.0	C799290
AB1911	10/1/2019	17.9	20.4	18.2	16.1	22.6	24.8	28.0	32.0	C799290
AB1912	11/6/2019	15.0	20.2	17.7	15.2	22.7	25.2	28.0	32.0	C799290
AB1913	12/10/2019	12.1	19.9	16.9	13.8	23.0	26.0	28.0	32.0	C799290
AB2001	1/9/2020	8.8	19.5	16.7	11.8	23.4	27.3	28.0	32.0	181155
AB2002	2/3/2020	8.4	19.0	14.4	9.8	23.6	28.2	28.0	32.0	181155
AB2003	3/4/2020	8.3	18.5	13.3	8.1	23.7	28.9	28.0	32.0	181155
AB2004	4/13/2020	8.1	17.9	12.2	6.5	23.5	29.2	28.0	32.0	181155
AB2005	5/4/2020	8.1	17.2	11.2	5.2	23.2	29.1	28.0	32.0	181155
AB2006	6/11/2020	8.0	16.4	10.3	4.1	22.6	28.8	28.0	32.0	181155
AB2007	7/17/2020	8.6	15.7	9.5	3.4	21.9	28.0	28.0	32.0	181155
AB2008	8/4/2020	8.3	15.0	8.8	2.7	21.1	27.2	28.0	32.0	181155
AB2009	9/2/2020	8.3	14.2	8.2	2.3	20.2	26.1	28.0	32.0	181155 / 19190172
AB2010	10/1/2020	8.4	13.5	7.8	2.1	19.2	24.8	28.0	32.0	19190172

QAQC by: MAS 10/13/20



Dilution Series = 150, 250, 416, 694, & 1157 mg/l KCl; Dilution Factor = 0.60

Test #	Test Date	Growth NOEC	Mean Control Growth	Growth PMSD	Upper Control Limit	Lower Control Limit	Central Tendency	SRT Lot #
AB1904	4/4/2019	416	0.366	11.4	694	250	416	177483
AB1905	5/3/2019	250	0.370	13.3	694	250	416	177483
AB1906	6/7/2019	250	0.359	12.3	694	250	416	177483
AB1907	7/9/2019	150	0.401	11.4	694	250	416	177483
AB1908	7/22/2019	250	0.388	15.0	694	250	416	C799290
AB1909	8/7/2019	416	0.374	12.4	694	250	416	C799290
AB1910	9/4/2019	416	0.367	17.5	694	250	416	C799290
AB1911	10/1/2019	416	0.363	12.7	694	250	416	C799290
AB1912	11/6/2019	416	0.348	17.6	694	250	416	C799290
AB1913	12/10/2019	416	0.393	14.0	694	250	416	C799290
AB2001	1/9/2020	250	0.385	9.3	694	250	416	181155
AB2002	2/3/2020	250	0.444	9.1	694	250	416	181155
AB2003	3/4/2020	416	0.417	10.9	694	250	416	181155
AB2004	4/13/2020	416	0.340	10.3	694	250	416	181155
AB2005	5/4/2020	416	0.387	11.4	694	250	416	181155
AB2006	6/11/2020	416	0.362	9.4	694	250	416	181155
AB2007	7/17/2020	250	0.400	13.0	694	250	416	181155
AB2008	8/4/2020	416	0.357	14.1	694	250	416	181155
AB2009	9/2/2020	416	0.324	13.4	694	250	416	181155 / 19190172
AB2010	10/1/2020	250	0.376	12.1	694	250	416	19190172

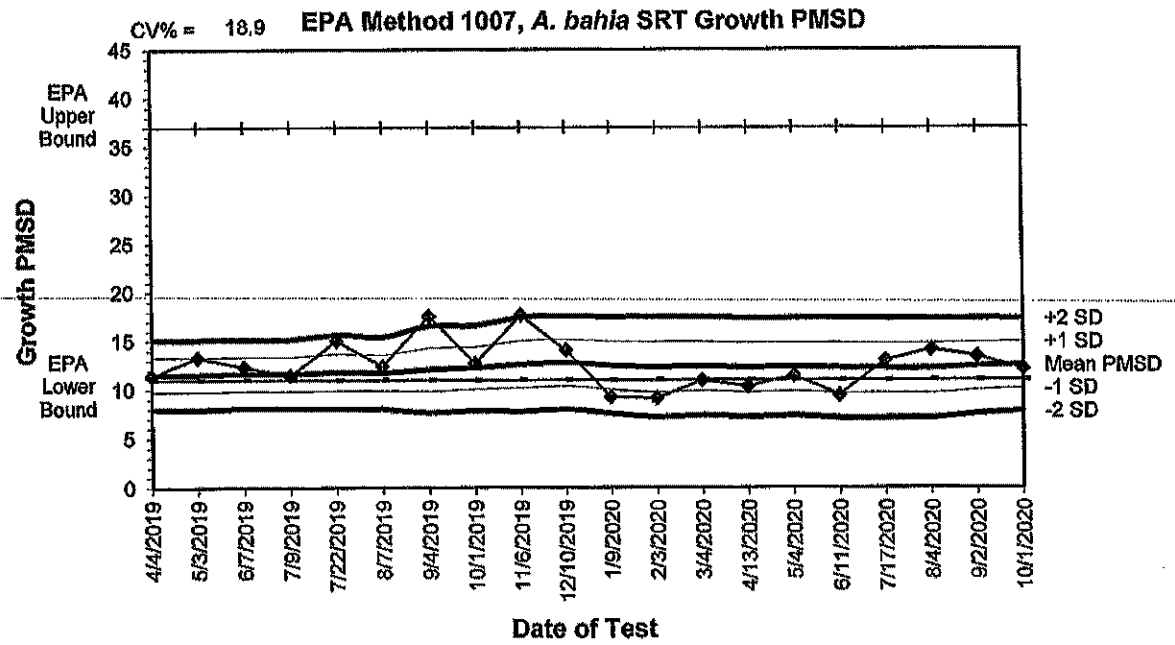
AB1907 - This is a valid test. The central tendency shifted from 416 to 250 mg/L KCl.

AB1909 - This is a valid test. The central tendency shifted from 250 to 416 mg/L KCl. The shift in central tendency caused a previous test result, AB1907, to fall below the new lower control limit. One out of 20 test results are expected to fall outside of control limits by chance alone. Ongoing laboratory performance is acceptable.

AB2001 - This is a valid test. The central tendency shifted from 416 to 250 mg/L KCl.

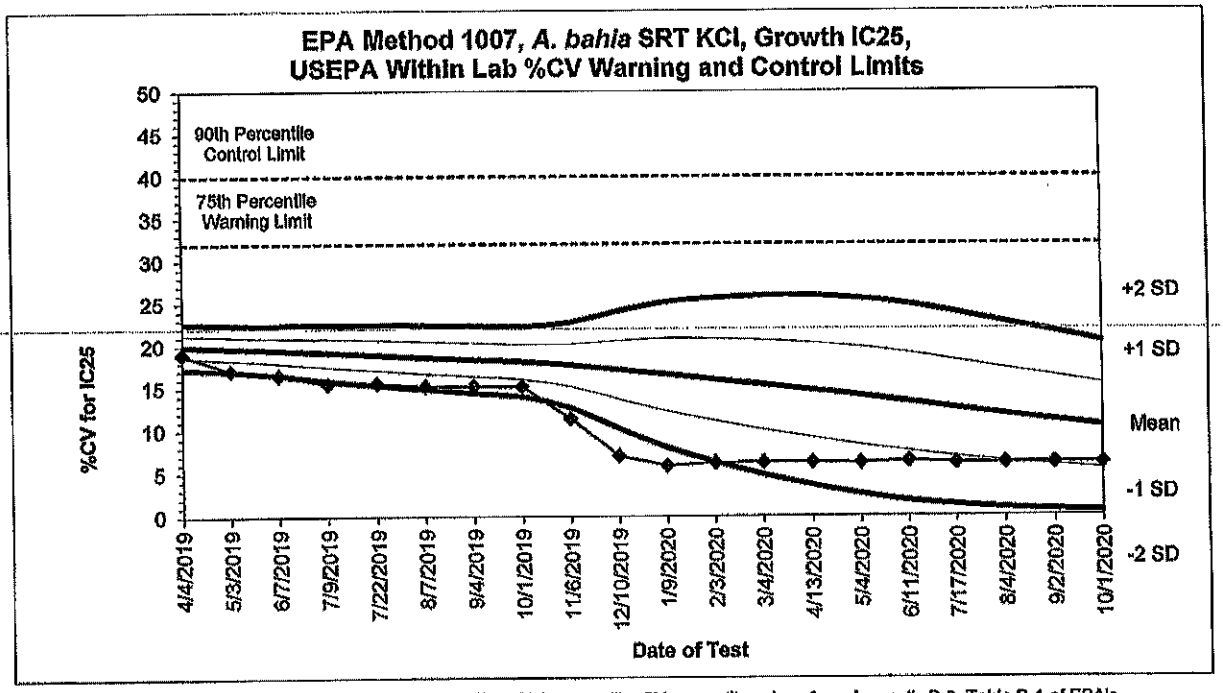
AB2004 - This is a valid test. The central tendency shifted from 250 to 416 mg/L KCl. The shift in central tendency caused a previous test result, AB1907, to fall below the new lower control limit. One out of 20 test results are expected to fall outside of control limits by chance alone. Ongoing laboratory performance is acceptable.

QAQC by: MHO 10/13/20



Test #	Test Date	Growth PMSD	Mean PMSD	-1 SD	-2 SD	+1 SD	+2 SD	Upper PMSD Bound	Lower PMSD Bound	SRT Lot #
AB1904	4/4/2019	11.4	11.6	9.8	8.0	13.3	15.1	37	11	177483
AB1905	5/3/2019	13.3	11.6	9.8	8.0	13.3	15.1	37	11	177483
AB1906	6/7/2019	12.3	11.6	9.9	8.1	13.4	15.2	37	11	177483
AB1907	7/9/2019	11.4	11.6	9.8	8.1	13.4	15.2	37	11	177483
AB1908	7/22/2019	15.0	11.8	9.9	8.0	13.7	15.6	37	11	C799290
AB1909	8/7/2019	12.4	11.7	9.9	8.0	13.6	15.4	37	11	C799290
AB1910	9/4/2019	17.5	12.1	9.9	7.6	14.3	16.5	37	11	C799290
AB1911	10/1/2019	12.7	12.2	10.1	7.9	14.4	16.6	37	11	C799290
AB1912	11/6/2019	17.6	12.6	10.2	7.8	15.0	17.4	37	11	C799290
AB1913	12/10/2019	14.0	12.8	10.4	8.0	15.2	17.6	37	11	C799290
AB2001	1/9/2020	9.3	12.5	10.0	7.6	15.0	17.4	37	11	181155
AB2002	2/3/2020	9.1	12.3	9.8	7.2	14.9	17.5	37	11	181155
AB2003	3/4/2020	10.9	12.4	9.9	7.4	14.9	17.4	37	11	181155
AB2004	4/13/2020	10.3	12.3	9.7	7.2	14.8	17.4	37	11	181155
AB2005	5/4/2020	11.4	12.3	9.8	7.3	14.8	17.3	37	11	181155
AB2006	6/11/2020	9.4	12.2	9.7	7.1	14.8	17.4	37	11	181155
AB2007	7/17/2020	13.0	12.2	9.6	7.1	14.7	17.3	37	11	181155
AB2008	8/4/2020	14.1	12.2	9.6	7.1	14.7	17.3	37	11	181155
AB2009	9/2/2020	13.4	12.4	10.0	7.5	14.9	17.3	37	11	181155 / 19190172
AB2010	10/1/2020	12.1	12.5	10.2	7.8	14.9	17.3	37	11	19190172

QAQC by: MKO 10/12/20



21%CV = 10th percentile, 24%CV = 25th percentile, 28%CV = 50th percentile. CV percentile values from Appendix B-6, Table B-1 of EPA's "Understanding and Accounting for Method Variability in WET Applications Under the NPDES Program", June 30, 2000.

Test #	Test Date	%CV for IC25	Mean %CV	-1 SD	-2 SD	+1 SD	+2 SD	75th Warning Limit	90th Control Limit	SRT Lot #
AB1904	4/4/2019	19.0	20.0	18.6	17.3	21.3	22.7	32.0	40.0	177483
AB1905	5/3/2019	17.1	19.7	18.4	17.0	21.1	22.5	32.0	40.0	177483
AB1906	6/7/2019	16.5	19.5	18.0	16.6	20.9	22.4	32.0	40.0	177483
AB1907	7/9/2019	15.5	19.2	17.5	15.9	20.9	22.5	32.0	40.0	177483
AB1908	7/22/2019	15.5	18.9	17.1	15.3	20.7	22.5	32.0	40.0	C799290
AB1909	8/7/2019	15.2	18.6	16.7	14.8	20.5	22.4	32.0	40.0	C799290
AB1910	9/4/2019	15.2	18.3	16.4	14.4	20.3	22.3	32.0	40.0	C799290
AB1911	10/1/2019	15.1	18.1	16.0	14.0	20.2	22.2	32.0	40.0	C799290
AB1912	11/6/2019	11.4	17.7	15.2	12.6	20.2	22.7	32.0	40.0	C799290
AB1913	12/10/2019	7.0	17.1	13.7	10.2	20.6	24.1	32.0	40.0	C799290
AB2001	1/9/2020	5.9	16.6	12.3	8.0	20.8	25.1	32.0	40.0	181155
AB2002	2/3/2020	6.2	15.9	11.1	6.3	20.7	25.6	32.0	40.0	181155
AB2003	3/4/2020	6.2	15.3	10.1	4.8	20.6	25.8	32.0	40.0	181155
AB2004	4/13/2020	6.2	14.7	9.1	3.6	20.3	25.8	32.0	40.0	181155
AB2005	5/4/2020	6.1	14.0	8.3	2.5	19.7	25.5	32.0	40.0	181155
AB2006	6/11/2020	6.4	13.3	7.5	1.8	19.1	24.8	32.0	40.0	181155
AB2007	7/17/2020	6.2	12.5	6.9	1.2	18.2	23.8	32.0	40.0	181155
AB2008	8/4/2020	6.1	11.8	6.3	0.9	17.2	22.7	32.0	40.0	181155
AB2009	9/2/2020	6.1	11.1	5.9	0.6	16.3	21.6	32.0	40.0	181155 / 19190172
AB2010	10/1/2020	6.1	10.4	5.5	0.6	15.4	20.4	32.0	40.0	19190172

QAQC by: MAO 10/13/20

Environmental Enterprises USA, Inc.

APPENDIX F

Corrosion Innovations – Corr-Ze 100
Range Finding Test (RFT)

Jim Knocke

Test Concentrations, % Product (PR)

Menidia beryllina	*Americamysis bahia*	Total Volume/ Concentration, ml	Color Code	ml SSOL	ml DH_2O
0.0300		800.0	Black	24.00	776.00
0.0150		"	Red	12.00	788.00
0.0100		"	Yellow	8.00	792.00
0.0050		"	Green	4.00	796.00
0.0025		"	Blue	2.00	798.00
0.0		"	White	0.00	800.00
Total Volume (ml) of CTS needed per day=					50.00
Total Volume (ml) of CTS needed for test duration=					100.00

1% Stock Solution (SSOL): 1.0 ml Corr-Ze 100 + 99.0 ml DH_2O

Data Pages & Calculations by: Michelle Ellis QA/QC Check by: M Robbins

M. beryllina = 2 Rep x 200 ml = 200 ml

A. bahia = 2 Rep x 200 ml = 200 ml

DH_2O = Dilution Water = **Synthetic Seawater, 25 ppt**

	LPC	M #	LPC	M #
Date	10/01		10/03	
Alkalinity	84	//	88	//
Salinity	24.7	1B	25.2	1B
pH	8.0	3n	8.0	3n
	SM		SM	

LPC: Laboratory Performance Control, synthetic seawater; Alkalinity (EPA Method 310.2): mg/L as $CaCO_3$; Salinity (EPA Method 120.1): ppt; pH (EPA Method 150.1): su; M#: meter number
Dissolved Oxygen, Electrode (EPA Method 360.1): mg/L; Temperature, Thermometric (EPA Method 170.1): °C

Prep Date	10/01	10/03
DH_2O Lot #	25R- 268 -20	25R- 269 -20
Sample #	1	1
Initial	AMS	AMS

@ Error 10/03/20 AMS

Comments: Renew at 48 hrs, and feed *M. beryllina* 2 hours prior to renewal.

Environmental Enterprises USA, Inc.

Inlandsilverside Minnow, *Menidia beryllina*
Acute Static-Renewal 96 – Hour Definitive Test
EPA-821-R-02-012: Section 9 Method 2006

Corrosion Innovations – Corr-Ze 100
Range Finding Test (RFT)

Test Organisms Age: 13 Days Old Test Organisms Source: EE
Test Initiation At: 1555 on 10/1/20
Counted by: AMS QC/QA by: MR Loaded by: AMS
Organism Lot # MR-2e2-20

Exposure Chamber: 16 oz. plastic cups. **Feeding**: None.

Survival Data

Time	REP	LPC White	REP	0.0025 Blue	REP	0.0050 Green	REP	0.0100 Yellow	REP	0.0150 Red	REP	~~0.300~~ 0.0300 Black (C)	Initials
0 HR	1	8	3	8	5	8	7	8	9	8	11	8	10/01/20
1555	2	8	4	8	6	8	8	8	10	8	12	8	AMS
		///		///		///		///		///		///	
24 HR	1	8	3	8	5	8	7	8	9	8	11	8	10/02/20
1052	2	8	4	8	6	8	8	8	10	8	12	8	Ams
		///		///		///		///		///		///	
48 HR	1	8	3	8	5	8	7	8	9	8	11	8	10/03/20
0843	2	7	4	8	6	8	8	8	10	8	12	8	AMS
		///		///		///		///		///		///	
72 HR	1	8	3	8	5	8	7	8	9	8	11	8	10/04/20
0906	2	7	4	8	6	8	8	8	10	8	12	8	AMS
		///		///		///		///		///		///	
96 HR	1	8	3	8	5	8	7	8	9	8	11	~~7~~ 8 (A)	10/05/20
(B) 59 1344	2	7	4	8	6	8	8	8	10	8	12	~~7~~ 8 (A)	SM
		///		///		///		///		///		///	
% Surv		93.8		100		100		100		100		100	

Data Entry by: ME QA/QC Officer: MM

(C) ~~Error~~ 10012020 ME

(A) Error 10.4.20 Ams

(B) Error 10105/20 SM

Q-1664-20 RFT
LC50

Mysid, *Americamysis bahia*

Acute Static-Renewal 48 – Hour Definitive Test
EPA-821-R-02-012: Section 9 Method 2007

Corrosion Innovations – Corr-Ze 100
Range Finding Test (RFT)

Test Organisms Age: 5 Days Old Test Organisms Source: EE
Test Initiation At: 1557 on 10 / 1 /20
Counted by: AMS QC/QA by: MR Loaded by: AMS
Organism Lot # AB-489-20

Exposure Chamber: 16 oz. plastic cups.

Survival Data

Time	REP	LPC White	REP	0.0025 Blue	REP	0.0050 Green	REP	0.0100 Yellow	REP	0.0150 Red	REP	0.0300 ~~0.300~~ (A) Black	Initials
0 HR	1	8	3	8	5	8	7	8	9	8	11	8	10/01/20
1557	2	8	4	8	6	8	8	8	10	8	12	8	AMS
		///		///		///		///		///		///	
24 HR	1	8	3	8	5	8	7	8	9	8	11	8	10/02/20
1119	2	8	4	8	6	8	8	8	10	8	12	8	ME
		///		///		///		///		///		///	
48 HR	1	8	3	8	5	8	7	8	9	8	11	8	10/03/20
0855	2	8	4	8	6	8	8	8	10	8	12	8	AMS
		///		///		///		///		///		///	
72 HR	1	8	3	8	5	8	7	8	9	8	11	3	10/04/20
0909	2	8	4	8	6	8	8	8	10	8	12	6	AMS
		///		///		///		///		///		///	
96 HR	1	8	3	8	5	8	7	8	9	8	11	0	10/05/20
1359	2	8	4	8	6	8	8	8	10	8	12	0	SM
		///		///		///		///		///		///	
% Surv	100		100		100		100		100		0.0		

(A) error 10012ome

Data Entry by: ME QA/QC Officer: MR

Q-1664-20 RFT
LC50

Water Quality Data

All Treatments: Temp., 23.5 to 26.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I**: initial water quality. **F:** final water quality.

Initial, *M. beryllina & A. bahia*

0 HR	Treatment % PR						
10/01/20	LPC	0.0025	0.0060	0.0100	0.0150	0.0300	Meter #
DO	7.2	7.2	7.3	7.2	7.2	7.2	S7
Temp	23.9	25.6	26.2	26.4	26.1	26.3	IB
Salinity	24.7	25.0	25.1	25.0	25.1	25.1	IB
Tech Initials: CM						Time: 1453	

Comments_____

Final, *M. beryllina*

24 HR	Treatment % PR						
10/02/20	LPC	0.0025	0.0060	0.0100	0.0150	0.0300	Meter #
DO (A)	~~4.6~~ 5.3	5.2	4.8	5.1	5.0	5.1	S7
Temp	25.2	25.2	25.2	25.3	25.3	25.2	IB
Salinity	25.2	25.3	25.4	25.3	25.2	25.2	IB
pH	7.5	7.7	7.7	8.0	8.1	8.5	3n
Tech Initials: SM						Time: 0919	

Comments (A) remeasured ~~09~~ 10/02/20 SM

Final, *A. bahia*

24 HR	Treatment % PR						
10/02/20	LPC	0.0025	0.0060	0.0100	0.0150	0.0300	Meter #
DO	5.2	5.0	5.0	5.2	5.2	5.5	S7
Temp	25.2	25.1	25.2	25.1	25.2	25.1	IB
Salinity	24.7	25.2	25.3	25.2	25.2	25.1	IB
pH	7.7	7.7	7.8	8.0	8.1	8.5	3n
Tech Initials: SM						Time: 0922	

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

Water Quality Data

All Treatments: Temp., 23.5 to 26.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I**: initial water quality. **F:** final water quality.

Final, *M. beryllina*

48 HR	Treatment % CTS						
10/03/20	LPC	0.0025	0.0060	0.0100	0.0150	0.0300	Meter #
DO	5.1	5.4	5.4	5.8	5.8	5.4	√7
Temp	25.0	25.4	25.4	25.2	25.4	25.1	1B
Salinity	25.4	25.4	25.5	25.8	25.5	25.8	1B
pH	7.4	7.6	7.6	7.7	7.7	7.9	37

Tech Initials: MM Time: 0734

Comments_____

Final, *A. bahia*

48 HR	Treatment % CTS						
10/03/20	LPC	0.0025	0.0060	0.0100	0.0150	0.0300	Meter #
DO	5.4	5.4	5.4	5.7	5.6	5.4	√7
Temp	25.4	25.6	25.4	25.4	25.4	25.7	1B
Salinity	25.4	25.6	25.4	25.3	25.4	25.5	1B
pH	7.5	7.5	7.6	7.7	7.8	7.9	37

Tech Initials: MM Time: 0730

Comments_____

Initial, *M. beryllina & A. bahia*

48 HR	Treatment % PR						
10/03/20	LPC	0.0025	0.0060	0.0100	0.0150	0.0300	Meter #
DO	7.1	7.1	7.1	7.1	7.1	7.0	√7
Temp	24.6	24.6	24.6	24.6	24.6	24.6	1B
Salinity	25.2	25.2	25.2	25.2	25.1	25.1	1B

Tech Initials: MM Time: 0744

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

Water Quality Data

All Treatments: Temp., 23.5 to 26.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I**: initial water quality. **F:** final water quality.

Final, *M. beryllina*

72 HR	Treatment % PR						
10/04/20	LPC	0.0025	0.0060	0.0100	0.0150	0.0300	Meter #
DO	10.3	10.1	10.1	10.3	10.2	10.2	S7
Temp	25.5	25.10	25.5	25.5	25.5	25.10	1B
Salinity	25.4	25.3	25.4	25.3	25.4	25.3	1B
pH	7.8	7.8	7.9	8.0	8.1	8.3	3D

Tech Initials: SM Time: 0738

Comments_____

Final, *A. bahia*

72 HR	Treatment % PR						
10/04/20	LPC	0.0025	0.0060	0.0100	0.0150	0.0300	Meter #
DO	10.4	10.0	8.9	10.2	10.2	8.9	S7
Temp	25.4	25.5	25.6	25.5	25.5	25.6	1B
Salinity	24.9	25.3	25.5	25.3	25.4	25.3	1B
pH	7.8	7.7	7.7	7.9	8.0	8.3	3D

Tech Initials: SM Time: 0740

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

Water Quality Data

All Treatments: Temp., 23.5 to 26.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I**: initial water quality. **F:** final water quality.

Final, *M. beryllina*

96 HR	Treatment % PR						
10/05/20	LPC	0.0025	0.0060	0.0100	0.0150	0.0300	Meter #
DO	6.0	5.8	5.2	5.6	5.7	5.9	S7
Temp	25.6	25.8	25.6	25.6	25.6	25.5	1B
Salinity	25.7	25.4	25.8	25.4	25.8	25.4	1B
pH	7.7	7.6	7.5	7.7	7.8	7.9	3D

Tech Initials: SM Time: 0850

Comments_____

Final, *A. bahia*

96 HR	Treatment % PR						
10/05/20	LPC	0.0025	0.0060	0.0100	0.0150	0.0300	Meter #
DO	6.0	5.8	5.7	5.6	5.6	5.5	S7
Temp	25.6	25.7	25.8	25.7	25.8	25.8	1B
Salinity	25.0	25.4	25.6	25.4	25.6	25.4	1B
pH	7.7	7.6	7.6	7.6	7.7	7.9	3D

Tech Initials: SM Time: 0852

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

Corrosion Innovations – Corr-Ze 100 – Range Finding Test (RFT)

Feeding Chart

Artemia Lot #
072519-1
Initial

M. beryllina

AM			
Date	Amount, µl	Time	Initials
10/03/20	200	0734	SM

PM			
Date	Amount, µl	Time	Initials

A. bahia

AM			
Date	Amount, µl	Time	Initials
10/02/20	200	0814	AMS
10/03/20	200	0735	SM
10/04/20	200	0733	MA
10/05/20	200	0816	ME

PM			
Date	Amount, µl	Time	Initials
10/01/20	200	1641	CM
10/02/20	200	1604	SM
10/03/20	200	1422	ZB
10/04/20	200	1355	CH

QA/QC Data Pages

- ☑ Company name & contact matches client file.
- ☑ Product matches client file.

Dilution series

0.0025, 0.0050, 0.0100, 0.0150, 0.0300.

- ☑ Calculations on mixing page are correct. (sign mixing page)
- ☑ Dates, dilutions, test method, # of replicates, replicate volume, area & block, acceptance limits, data analysis endpoint, and test organisms are correct throughout data pages.
- ☑ Format correct. (spaces for all entries, page numeration, no split pages, etc.)

MK Initials 10/01/20 Date

QA/QC Chain-of-Custody

- ☑ Product on COC matches sample bottle.
- ☑ Product on COC matches test data pages.
- ☑ Lab # on COC matches sample bottle.
- ☑ Lab # on COC matches test data pages.
- ☑ Sample volume is sufficient for test duration. (Sample volume in container(s) checked against sample volume on mixing page)

Sample volume available: 3000 ml

Sample volume needed: 1.0 ml

(Sample volume insufficient if sample volume available < sample volume needed)

ME Initials 10/01/20 Date

Jugs & Labels

- ☑ Lab # on jug and labels matches test data pages.
- ☑ Dilution water type is on jug. (i.e. 25 ppt, 20 ppt, MHSF, etc.)
- ☑ Dilutions on jugs and labels match dilutions on test data pages.
- ☑ Jugs are color-coded. (see mixing page for appropriate color code sequence)

ME Initials 10/01/20 Date

Raw Data QC/QA by: Michelle Lin 10/06/20

CETIS Summary Report

Inland Silverside Acute Survival Test — **Environmental Enterprises USA, Inc.**

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits Lower	TAC Limits Upper	Overlap	Decision
20-5940-0823	96h Survival Rate	Control Resp	0.9375	0.9	>>	Yes	Passes Criteria

96h Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LP	2	0.9375	0.1434	1.7320	0.8750	1.0000	0.0625	0.0884	9.43%	0.00%
0.0025		2	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	---	-6.67%
0.005		2	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	---	-6.67%
0.01		2	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	---	-6.67%
0.015		2	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	---	-6.67%
0.03		2	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	---	-6.67%

96h Survival Rate Detail

MD5: 7F922D750B7BEF4440CD0366037F1E7C

Conc-%	Code	Rep 1	Rep 2
0	LP	1.0000	0.8750
0.0025		1.0000	1.0000
0.005		1.0000	1.0000
0.01		1.0000	1.0000
0.015		1.0000	1.0000
0.03		1.0000	1.0000

96h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2
0	LP	8/8	7/8
0.0025		8/8	8/8
0.005		8/8	8/8
0.01		8/8	8/8
0.015		8/8	8/8
0.03		8/8	8/8

CETIS Summary Report

Americamysis Acute Survival Test — **Environmental Enterprises USA, Inc.**

96h Survival Rate Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	LP	2	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	---	0.00%
0.0025		2	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	---	0.00%
0.005		2	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	---	0.00%
0.015		2	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	---	0.00%
0.03		2	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	---	0.00%
0.1		2	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	---	100.00%

96h Survival Rate Detail

MD5: 74541CD6AD6FACA0E53F933A2955C85A

Conc-%	Code	Rep 1	Rep 2
0	LP	1.0000	1.0000
0.0025		1.0000	1.0000
0.005		1.0000	1.0000
0.015		1.0000	1.0000
0.03		1.0000	1.0000
0.1		0.0000	0.0000

96h Survival Rate Binomials

Conc-%	Code	Rep 1	Rep 2
0	LP	8/8	8/8
0.0025		8/8	8/8
0.005		8/8	8/8
0.015		8/8	8/8
0.03		8/8	8/8
0.1		0/8	0/8

Corrosion Innovations – Corr-Ze 100
Range Finding Test (RFT)

Jim Knocke

Test Concentrations, % Product (PR)

Menidia beryllina	*Americamysis bahia*	Total Volume/ Concentration, ml	Color Code	ml PR	ml DH_2O
3.00		800.0	Black	24.00	776.00
1.50		"	Red	12.00	788.00
1.00		"	Yellow	8.00	792.00
0.50		"	Green	4.00	796.00
0.25		"	Blue	2.00	798.00
0.0		"	White	0.00	800.00
Total Volume (ml) of CTS needed per day=					50.00
Total Volume (ml) of CTS needed for test duration=					100.00

Data Pages & Calculations by: Michelle Ellis QA/QC Check by: [illegible]

M. beryllina = 2 Rep x 200 ml = 200 ml

A. bahia = 2 Rep x 200 ml = 200 ml

DH_2O = Dilution Water = **Synthetic Seawater, 25 ppt**

	LPC	M #	LPC	M #
Date	09/30		10/02	
Alkalinity	80	//		//
Salinity		B		
pH	80	3N		
	ME			

LPC: Laboratory Performance Control, synthetic seawater; Alkalinity (EPA Method 310.2): mg/L as $CaCO_3$; Salinity (EPA Method 120.1): ppt; pH (EPA Method 150.1): su; M#: meter number
Dissolved Oxygen, Electrode (EPA Method 360.1): mg/L; Temperature, Thermometric (EPA Method 170.1): °C

Prep Date	09/30	10/02
DH_2O Lot #	25R- 207 -20	25R- -20
Sample #	1	1
Initial	CM	

Comments: Renew at 48 hrs, and feed *M. beryllina* 2 hours prior to renewal.

This test was terminated at 24 hours due to high mortality in the M. beryllina and A. bahia. ~~DF~~ 100120 ME

Q-1661-20 RFT
LC50

error 100120 ME

Inlandsilverside Minnow, *Menidia beryllina*
Acute Static-Renewal 96 – Hour Definitive Test
EPA-821-R-02-012: Section 9 Method 2006

Corrosion Innovations – Corr-Ze 100
Range Finding Test (RFT)

Test Organisms Age: 12 Days Old Test Organisms Source: EE
Test Initiation At: 1447 on 09/30/20
Counted by: AMS QC/QA by: SH Loaded by: SH
Organism Lot # MU-201-20

Exposure Chamber: 16 oz. plastic cups. **Feeding**: None.

Survival Data

Time	REP	LPC White	REP	0.25 Blue	REP	0.50 Green	REP	1.00 Yellow	REP	1.50 Red	REP	3.00 Black	Initials
	Treatment % PR												
0 HR	1	8	3	8	5	8	7	8	9	8	11	8	09/30/20
	2	8	4	8	6	8	8	8	10	8	12	8	
1447		///		///		///		///		///		///	SH
24 HR	1	8	3	1	5	0	7	0	9	0	11	0	10/01/20
	2	8	4	3	6	0	8	0	10	0	12	0	
1033		///		///		///		///		///		///	ME
48 HR	1		3		5		7		9		11		10/02/20
	2		4		6		8		10		12		
		///		///		///		///		///		///	
72 HR	1		3		5		7		9		11		10/03/20
	2		4		6		8		10		12		
		///		///		///		///		///		///	
96 HR	1		3		5		7		9		11		10/04/20
	2		4		6		8		10		12		
		///		///		///		///		///		///	
% Surv													

Data Entry by: _____ QA/QC Officer: _____

Mysid, *Americamysis bahia*

Acute Static-Renewal 48 – Hour Definitive Test
EPA-821-R-02-012: Section 9 Method 2007

Corrosion Innovations – Corr-Ze 100
Range Finding Test (RFT)

Test Organisms Age: 5 Days Old Test Organisms Source: EE
Test Initiation At: 1449 on 09/30/20
Counted by: AMS QC/QA by: SH Loaded by: SH
Organism Lot # AB-486-20

Exposure Chamber: 16 oz. plastic cups.

Survival Data

Time	Treatment % PR												Initials
	REP	LPC White	REP	0.25 Blue	REP	0.50 Green	REP	1.00 Yellow	REP	1.50 Red	REP	3.00 Black	
0 HR	1	8	3	8	5	8	7	8	9	8	11	8	09/30/20
	2	8	4	8	6	8	8	8	10	8	12	8	
1449		///		///		///		///		///		///	SH
24 HR	1	8	3	0	5	0	7	0	9	0	11	0	10/01/20
	2	8	4	0	6	0	8	0	10	0	12	0	
1032		///		///		///		///		///		///	ME
48 HR	1		3		5		7		9		11		10/02/20
	2		4		6		8		10		12		
		///		///		///		///		///		///	
72 HR	1		3		5		7		9		11		10/03/20
	2		4		6		8		10		12		
		///		///		///		///		///		///	
96 HR	1		3		5		7		9		11		10/04/20
	2		4		6		8		10		12		
		///		///		///		///		///		///	
% Surv													

Data Entry by: _____ QA/QC Officer: _____

Water Quality Data

All Treatments: Temp., 23.5 to 26.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I**: initial water quality. **F:** final water quality.

Initial, *M. beryllina & A. bahia*

0 HR	Treatment % PR						
09/30/20	LPC	0.25	0.50	1.00	1.50	3.00	Meter #
DO	7.2	7.3	7.4	7.3	7.3	7.2	S7
Temp	23.7	24.8	23.9	23.6	23.7	23.8	1B
Salinity	24.5	24.8	24.5	24.4	24.2	23.5	1B
Tech Initials: CM						Time: 1445	

Comments_____

Final, *M. beryllina*

24 HR	Treatment % PR						
10/01/20	LPC	0.25	0.50	1.00	1.50	3.00	Meter #
DO	5.9	5.3	5.8	5.7	5.9	5.4	S7
Temp	25.2	25.2	25.2	25.1	25.0	24.8	1B
Salinity	25.1	25.1	25.0	24.8	24.8	24.1	1B
pH	7.7	9.2	9.6	9.8	9.8	9.8	3N
Tech Initials: CM						Time: 0940	

Comments_____

Final, *A. bahia*

24 HR	Treatment % PR						
10/01/20	LPC	0.25	0.50	1.00	1.50	3.00	Meter #
DO	5.3	5.4	5.5	5.6	5.3	5.2	S7
Temp	25.1	24.8	25.0	25.0	24.2	24.5	1B
Salinity	25.0	25.2	24.9	24.7	24.5	23.9	1B
pH	8.0	9.3	9.6	9.7	9.8	9.8	3N
Tech Initials: CM						Time: 0942	

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

Water Quality Data

All Treatments: Temp., 23.5 to 26.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I:** Initial water quality. **F:** final water quality.

Final, *M. beryllina*

48 HR	Treatment % CTS						
10/02/20	LPC	0.25	0.50	1.00	1.50	3.00	Meter #
DO							
Temp							
Salinity							
pH							
Tech Initials:						Time:	

Comments_____

Final, *A. bahia*

48 HR	Treatment % CTS						
10/02/20	LPC	0.25	0.50	1.00	1.50	3.00	Meter #
DO							
Temp							
Salinity							
pH							
Tech Initials:						Time:	

Comments_____

Initial, *M. beryllina & A. bahia*

48 HR	Treatment % PR						
10/02/20	LPC	0.25	0.50	1.00	1.50	3.00	Meter #
DO							
Temp							
Salinity							
Tech Initials:						Time:	

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

Water Quality Data

All Treatments: Temp., 23.5 to 26.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. **I:** Initial water quality. **F:** final water quality.

Final, *M. beryllina*							
72 HR	Treatment % PR						
10/03/20	LPC	0.25	0.50	1.00	1.50	3.00	Meter #
DO							
Temp							
Salinity							
pH							
Tech Initials:					Time:		

Comments_____

Final, *A. bahia*							
72 HR	Treatment % PR						
10/03/20	LPC	0.25	0.50	1.00	1.50	3.00	Meter #
DO							
Temp							
Salinity							
pH							
Tech Initials:					Time:		

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

Water Quality Data

All Treatments: Temp., 23.5 to 26.4°C. Initial & Final Dissolved Oxygen (DO): 4.0 to 7.5 mg/L.
LPC: Initial Salinity, 24.5 to 25.4 ppt. I: initial water quality. **F:** final water quality.

Final, *M. beryllina*

96 HR	Treatment % PR						
10/04/20	LPC	0.25	0.50	1.00	1.50	3.00	Meter #
DO							
Temp							
Salinity							
pH							
Tech Initials:					Time:		

Comments_____

Final, *A. bahia*

96 HR	Treatment % PR						
10/04/20	LPC	0.25	0.50	1.00	1.50	3.00	Meter #
DO							
Temp							
Salinity							
pH							
Tech Initials:					Time:		

Comments_____

DO: mg/L pH: su Salinity: ppt Temp: °C

Q-1661-20 RFT
LC50

Corrosion Innovations – Corr-Ze 100 – Range Finding Test (RFT)

Feeding Chart

Artemia Lot #
072519-1
Initial

M. beryllina

AM			
Date	**Amount, µl**	**Time**	**Initials**
10/02/20	200		

PM			
Date	**Amount, µl**	**Time**	**Initials**

A. bahia

AM			
Date	**Amount, µl**	**Time**	**Initials**
10/01/20	200		
10/02/20	200		
10/03/20	200		
10/04/20	200		

PM			
Date	**Amount, µl**	**Time**	**Initials**
09/30/20	200	1650	AMS
10/01/20	200		
10/02/20	200		
10/03/20	200		

QA/QC Data Pages

- ☑ Company name & contact matches client file.
- ☑ Product matches client file.

Dilution series

0.25, 0.50, 1.00, 1.50, 3.00.

- ☑ Calculations on mixing page are correct. (sign mixing page)
- ☑ Dates, dilutions, test method, # of replicates, replicate volume, area & block, acceptance limits, data analysis endpoint, and test organisms are correct throughout data pages.
- ☑ Format correct. (spaces for all entries, page numeration, no split pages, etc.)

MH Initials 9/30/20 Date

QA/QC Chain-of-Custody

- ☑ Product on COC matches sample bottle.
- ☑ Product on COC matches test data pages.
- ☑ Lab # on COC matches sample bottle.
- ☑ Lab # on COC matches test data pages.
- ☑ Sample volume is sufficient for test duration. (Sample volume in container(s) checked against sample volume on mixing page)

Sample volume available: 100.0 ml

Sample volume needed: 100.0 ml

(Sample volume insufficient if sample volume available < sample volume needed)

MH Initials 9/30/20 Date

Jugs & Labels

- ☑ Lab # on jug and labels matches test data pages.
- ☑ Dilution water type is on jug. (i.e. 25 ppt, 20 ppt, MHSF, etc.)
- ☑ Dilutions on jugs and labels match dilutions on test data pages.
- ☑ Jugs are color-coded. (see mixing page for appropriate color code sequence)

SH Initials 9-30-20 Date

Raw Data QC/QA by: Michelle Ellis 10/2/20

ENVIRONMENTAL ENTERPRISES USA, INC.
SAMPLE RECEIPT / ACCEPTANCE (SRA) FORM

CLIENT: Corrosion Innovations **KIT NO.** Box 1
DATE RECEIVED: 9-29-20 **CL NO.** N/A **LAB NO.** Q-16661-20 (RFT) Q-16662-20 (7day)
LOCATION: N/A N/A

SAMPLE RECEIPT:

1. Sample Kit Supplied by: EE USA....., Client....., ???....., Other.....
   Ice Chest....., Cardboard Box....., Styrofoam Box....., Other..... How many containers in kit? ...1.....
2. Ice chest received... Circle one; *delivered by Hot Shot, FEDEX, UPS, Client, etc. mark NA.
   *NA or SB: Fridge, Ice & H_2O, [Dry, H_2O, Ice packs, Other, (Temp.....°C, Temp ID#....)]
   At EE USA: Ice & H_20, Dry, H_2O, Ice packs (Frozen? Yes....or No....), Other.....
   If Ice & H_20 received... How? Loose, Bagged, Bottled, or Other...Comment: _____
3. Sample container(s) in good condition (sealed & unbroken)? YES..... NO.....
4. Sample container label(s) filled out completely? YES..... NO..... N/A.....
   If not, mark all that apply. For O&G (PW) OCSG & Well #'s N/A. For O&G (WF) OCSG N/A
   a) Date & time collected..... _____ c) OCSG number..... _____
   b) Collected by ..... _____ d) Well number ..... _____
5. Chain-of-Custody form (COC) filled out completely? YES..... NO.....
   If not, mark all that apply.
   a) No COC..... _____ f) Date & time collected..... _____
   b) Collected by ..... _____ g) Received by..... _____
   c) Relinquished by..... _____ h) Date and/or time of transfer... _____
   d) Location..... _____ i) Waste type..... _____
   e) Company name..... _____
6. Custody seal(s) received with this sample kit? YES..... NO..... Were custody seals used? YES..... NO.....
   And if used, were they intact? YES.....NO..... Were custody seals filled out? YES..... NO.....

COMMENTS: (9) Not EE Bottle/label

Information recorded by: RF 9/29/20

SAMPLE ACCEPTANCE: **TOX: EFF___ CTS___ PW___ DF___; ANALY ____ BIOD ____**
O&G: PW___ WF___; PROD.: NCP___ WAF___ SBF___;
ADD.: DF___ CTS___; GC/MS: DF____; OTHER: Product

7. Was each sample container appropriate (EPA Protocol)? Unknown YES..... NO.....
   Plastic..... Glass..... Number of samples for location?.....1.....
8. Does the recorded information on the COC and label agree? YES..... NO.....
   Client Sample ID, Collection location, date, & time. Collected by.
9. Was sufficient amount of each sample received? YES..... NO.....
   Container size..1 gal, Estimated Volume..1 gal Head space..0..... (mls or liters).
10. Was each sample received within the proper holding time? YES..... NO.....
11. Was each sample received at the proper temperature? (See COC for temp) YES..... NO..... N/A

Oil & Grease Lab Only:

12. Sample verified for proper acid preservation & temp within 1 hour of sample receipt? YES..... NO.....
13. Is the initial pH <2 su? YES..... NO.....
    If no, how many mls of 6NHCL was added to make pH <2 su? .....mls.....OL#

COMMENTS & CLIENT CONTACT INFO (name, date, instructions):

Information recorded by: ME 9/30/20

NA=not applicable, SB=Shorebase, or CL=Certified Lot Number, PW= Produced Water, WF=Well Fluid

ENVIRONMENTAL ENTERPRISES USA, INC.
SAMPLE RECEIPT / ACCEPTANCE (SRA) FORM

CLIENT: Corrosion Innovations KIT NO. —
DATE RECEIVED: 9-28-20 CL NO. — LAB NO. Q-16061-20 RFT
LOCATION: Lab Sample / Product

SAMPLE RECEIPT:

1. Sample Kit Supplied by: EE USA....., Client..✓.., ???....., Other.....
   Ice Chest....., Cardboard Box..✓.., Styrofoam Box....., Other..... How many containers in kit? ..1..
2. Ice chest received... Circle one; *delivered by Hot Shot, FEDEX, UPS, Client, etc. mark NA.
   (*NA) or SB: Fridge, Ice & H_2O, [Dry, H_2O, Ice packs, Other, (Temp.....°C, Temp ID#....)]
   At EE USA: Ice & H_20, (Dry), H_2O, Ice packs (Frozen? Yes....or No....), Other.....
   If Ice & H_20 received... How? Loose, Bagged, Bottled, or Other...Comment:
3. Sample container(s) in good condition (sealed & unbroken)? YES..✓.. NO.....
4. Sample container label(s) filled out completely? YES..✓.. NO..... N/A.....
   If not, mark all that apply. For O&G (PW) OCSG & Well #'s N/A. For O&G (WF) OCSG N/A
   a) Date & time collected..... c) OCSG number.....
   b) Collected by ..... d) Well number.....
5. Chain-of-Custody form (COC) filled out completely? YES..✓.. NO.....
   If not, mark all that apply.
   a) No COC..... f) Date & time collected.....
   b) Collected by ..... g) Received by.....
   c) Relinquished by..... h) Date and/or time of transfer...
   d) Location..... i) Waste type.....
   e) Company name.....
6. Custody seal(s) received with this sample kit? YES..... NO..✓.. Were custody seals used? YES..... NO.....
   And if used, were they intact? YES.....NO..... Were custody seals filled out? YES..... NO.....

COMMENTS:

Information recorded by: JT 09/28/20

SAMPLE ACCEPTANCE: TOX: EFF___ CTS___ PW___ DF___; ANALY ____ BIOD ____
O&G: PW___ WF___; PROD.: NCP___ WAF___ SBF___;
ADD.: DF___ CTS___; GC/MS: DF____; OTHER: Product unknown

7. Was each sample container appropriate (EPA Protocol)? YES..... NO.....
   Plastic..✓.. Glass..... Number of samples for location?.....1.....
8. Does the recorded information on the COC and label agree? YES..✓.. NO.....
   Client Sample ID, Collection location, date, & time. Collected by.
9. Was sufficient amount of each sample received? YES..✓.. NO.....
   Container size..100...., Estimated Volume..100...., Head space..0..... (mls or liters).
10. Was each sample received within the proper holding time? YES..✓.. NO....N/A
11. Was each sample received at the proper temperature? (See COC for temp) YES..... NO.....

Oil & Grease Lab Only:

12. Sample verified for proper acid preservation & temp within 1 hour of sample receipt? YES..... NO.....
13. Is the initial pH <2 su? YES..... NO.....
    If no, how many mls of 6NHCL was added to make pH <2 su? .....mls.....OL#

COMMENTS & CLIENT CONTACT INFO (name, date, instructions):

Information recorded by: ME 9/28/20

NA=not applicable, SB=Shorebase, or CL=Certified Lot Number, PW= Produced Water, WF=Well Fluid