Effluent, Stormwater, and Ambient Toxicity Test Drive Analysis of the Test of Significant Toxicity (TST)

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EXECUTIVE SUMMARY

The Test of Significant Toxicity (TST) is a statistical approach developed by the U.S. Environmental Protection Agency (EPA) for analyzing whole effluent (WET) and ambient toxicity data, and is being proposed in the State Water Resources Control Board (State Water Board) draft Toxicity Policy. EPA has demonstrated the advantages of the TST approach using WET and ambient toxicity data across the U.S. The State Water Board recommended conducting a "test drive" comparing results obtained using TST with results obtained using the current WET statistical approach based on comments raised at the November 16, 2010 workshop. The test drive had two specific objectives: (1) Evaluate and compare resulting interpretations of WET data analyzed using TST and the No Observed Effect Concentration (NOEC) statistical approach currently being used in California's WET programs; and (2) Determine how many (if any) additional within-test replicates for the control and IWC would be needed to declare samples non-toxic that were initially identified as toxic using TST with a mean effect less than TST regulatory management decisions (RMD).

TST Regulatory Management Decisions

- The sample is declared toxic if there is greater than or equal to a 25% effect in chronic tests, or if there is greater than or equal to a 20% effect in acute tests at the permitted IWC (referred to as the toxic RMD).
- The sample is declared non-toxic if there is less than or equal to a 10% effect at the IWC in acute or chronic tests (referred to as the non-toxic RMD).

Valid WET data from over 25 dischargers were compiled and analyzed in this test drive representing wastewater effluents from a variety of facilities, including small facilities from underprivileged communities. A total of 981 tests were compiled in this test drive representing the majority of WET test methods and endpoints used in California's toxicity programs. Some of the tests received did not meet test acceptability criteria and were therefore not used. Additionally, some tests could not be used because the test did not include a concentration at or near the facilities' instream waste concentration (IWC). A total of 890 valid, usable tests were analyzed in this test drive. An additional 3201 WET chronic endpoints were analyzed in a similar manner and provided by the Surface Water Ambient Monitoring Program (SWAMP) database and the California Environmental Data Exchange Network (CEDEN). Samples were collected during both dry events and wet weather events throughout the state of California, as well as during irrigation seasons in the central coast, central valley, and other agricultural areas.

Each valid test was analyzed using both TST and the current NOEC approach and a determination was made as to whether the sample is toxic or not using each approach. In addition, this study evaluated the effect of adding simulated replicates to those tests declared toxic using TST that had less than 25% effect in a chronic test or less than 20% effect in an acute test.

Results of the test drive are as follows:

1. TST analysis declared 3.7% of all tests as toxic which had a mean effect at the IWC less than 25% for chronic methods or less than 20% for acute methods, while NOEC analysis declared 5.5% of those tests as toxic (see Table E-1; Figure E-1).
2. TST analysis declared 0.1% of all tests as toxic which had an effect less than or equal to 10%, while NOEC analysis declared 2.8% of those tests as toxic. These results, combined with those in #1 above, demonstrate that truly non-toxic samples were more often declared non-toxic using TST than using the NOEC approach (see Table E-1).

3. TST appeared to perform better than the current NOEC approach for those tests exhibiting significant toxicity at the IWC. For chronic tests with a mean effect greater than or equal to 25%, the NOEC analysis declared a significantly higher percentage of these tests non-toxic as compared to TST (9.6% and 0.1% for NOEC and TST, respectively; Figure E-2). Thus, NOEC analysis missed declaring truly toxic samples (effects greater than or equal to 25%) as toxic more often. It is desired that our statistics declare a sample as toxic at or above the respective toxic RMD.
4. The few cases where TST detected toxicity at effects less than 25% in chronic tests or less than 20% in acute tests were due to high variability between replicates in the controls and/or IWC treatments. Addition of a minimal number of replicates to these tests usually resulted in the sample being declared non-toxic using the TST procedure. These results provide useful information to permittees, laboratories, and the State Water Board regarding within-test variability, and demonstrate the advantage, to the permittee, of using more than the minimum required number of replicates in certain cases.
5. Test results using both TST and the current NOEC approach were generally the same overall, indicating that the use of TST is not expected to change the number of enforcement actions over the current status (Table E-1, Figure E-1).
6. Based on analysis of SWAMP and CEDEN ambient freshwater chronic toxicity data, a similar percentage of test endpoints were declared toxic that were below the chronic toxic RMD of 25% using either TST or NOEC analysis (6.3% and 5.9%, respectively; Table E-2, Figure E-3). Similar to the test drive effluent results, NOEC analysis declared 9.5% of ambient toxicity tests as non-toxic with an effect at the IWC (100% sample water) greater than or equal to 25%, while TST did not declare any of these tests as non-toxic (Figure E-4). This pattern is the same for the effluent results (Figure E-2).

Table E-1. Summary of all WET method tests declared toxic and non-toxic regardless of percent mean effect and those declared toxic with a percent mean effect at the IWC less than 25%, and less than or equal to 10% for each analysis method grouped by test type. Numbers represent the percentage based on all tests for a given method type.

Method Type	Percent of Tests Declared Non-Toxic		Percent of Tests Declared Toxic [1]		Percent of Tests Declared Toxic with less than 25% (20% for Acute) Effect at IWC[2]		Percent of Tests Declared Toxic with less than or equal to 10% Effect at IWC[3]	
	TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
Chronic Marine	89.3	83.5	10.7	16.5	2.2	9.8	0	5.6
Chronic Freshwater	73.8	77.3	26.2	22.7	7.0	4.4	0	1.7
Acute Marine	100	100	0	0	0	0	0	0
Acute Freshwater	96.4	98.8	3.6	1.2	1.8	0	0.6	0
All Methods	**85.1**	**84.6**	**14.9**	**15.4**	**3.7**	**5.5**	**0.1**	**2.8**

1. This includes tests which are truly toxic above the RMD of 20% for acute or 25% for chronic, as well as those tests with effects below the respective RMDs.
2. This includes only tests with effects less than the non-toxic RMD of 25% (chronic) or 20% (acute) effect at the IWC.
3. This includes only tests with effects less than the non-toxic RMD of 10% at the IWC.

Table E-2. Summary of the tests declared toxic and non-toxic regardless of percent mean effect, and those tests declared toxic with a percent mean effect at the IWC <25% and ≤ 10% for each analysis method, grouped by WET test method. Numbers in parentheses represent the percentage based on all tests available in both databases for a given method.

WET Test Method	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic[1]		Number (Percent) of Tests Declared Toxic with < 25% Effect[2]		Number (Percent) of Tests Declared Toxic with < 10% Effect at IWC[3,5]	
	TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
C. dubia Reproduction	653 (73.7)	670 (75.6)	233 (26.3)	216 (24.4)	59 (8.3)	46 (6.5)	2 (0.3)	7 (1.2)
P. promelas Biomass[4]	230 (92.7)	229 (92.3)	18 (7.3)	19 (7.7)	7 (3.0)	10 (4.2)	0 (0)	2 (0.9)
P. promelas Chronic Survival[4]	492 (77.6)	582 (91.8)	142 (22.4)	52 (8.2)	83 (14.4)	22 (3.8)	0 (0)	0 (0)
Selenastrum Growth	1248 (87.1)	1191 (83.1)	185 (12.9)	242 (16.9)	27 (2.1)	87 (6.8)	0 (0)	12 (1.0)
All Methods	**2623 (81.9)**	**2672 (83.5)**	**578 (18.1)**	**529 (16.5)**	**176 (6.3)**	**165 (5.9)**	**2 (0.1)**	**21 (0.9)**

1. This includes tests which are truly toxic above the RMD of 20% for acute or 25% for chronic, as well as those tests with effects below the respective RMDs.
2. This includes only tests with effects less than the non-toxic RMD of 25% (chronic) or 20% (acute) effect at 100% site water.
3. This includes only tests with effects less than the non-toxic RMD of 10% at 100% site water.
4. There is likely some overlap between these endpoints in that one test may have had toxicity for survival and biomass.
5. The IWC in the SWAMP/CEDEN tests is 100% “sample water” either from stormwater or ambient sample water.

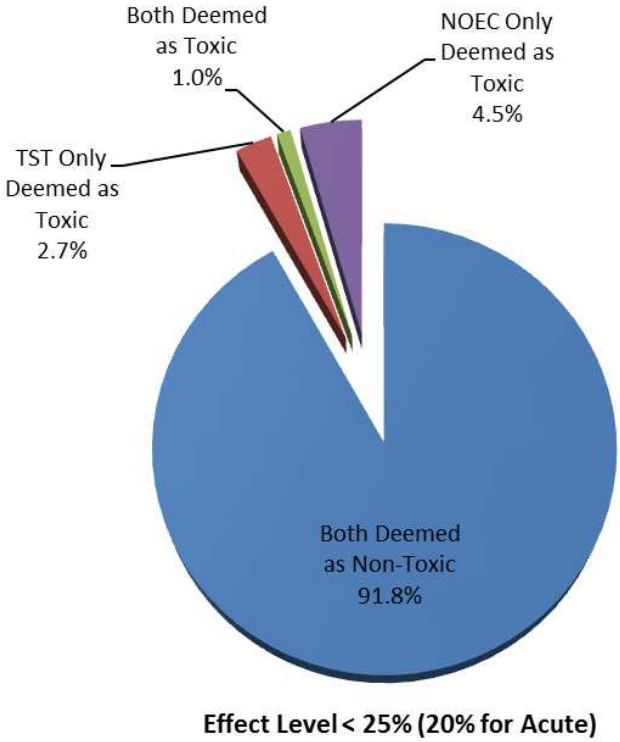

Figure E-1. Summary of the tests from all methods that were declared toxic using TST and NOEC analysis with a mean effect at the IWC less than the toxic RMD of 25% for chronic or 20% for acute tests. These percentages include those tests having effects at the IWC less than or equal to the non-toxic RMD of 10%. N=786 tests.

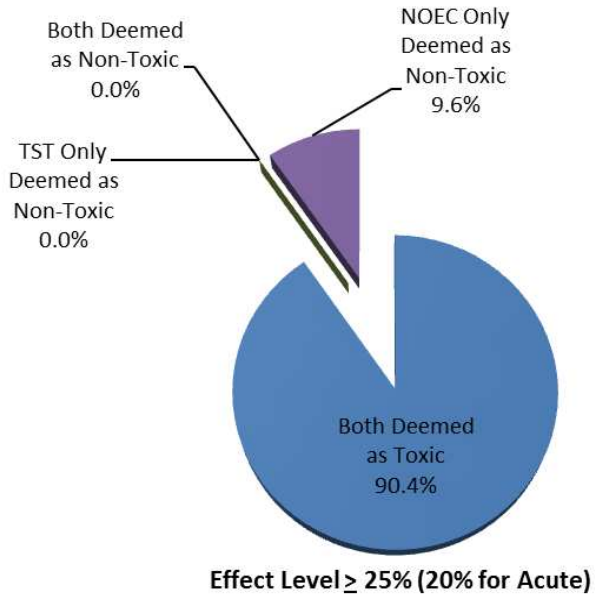

Figure E-2. Summary of the tests from all methods that were declared non-toxic using TST and NOEC analysis with a mean effect at the IWC greater than or equal to the toxic RMD of 25% for chronic or 20% for acute tests. N=104 tests. This pie chart is smaller than Figure E-1 because it reflects the fewer number of total tests for Figure E-2.

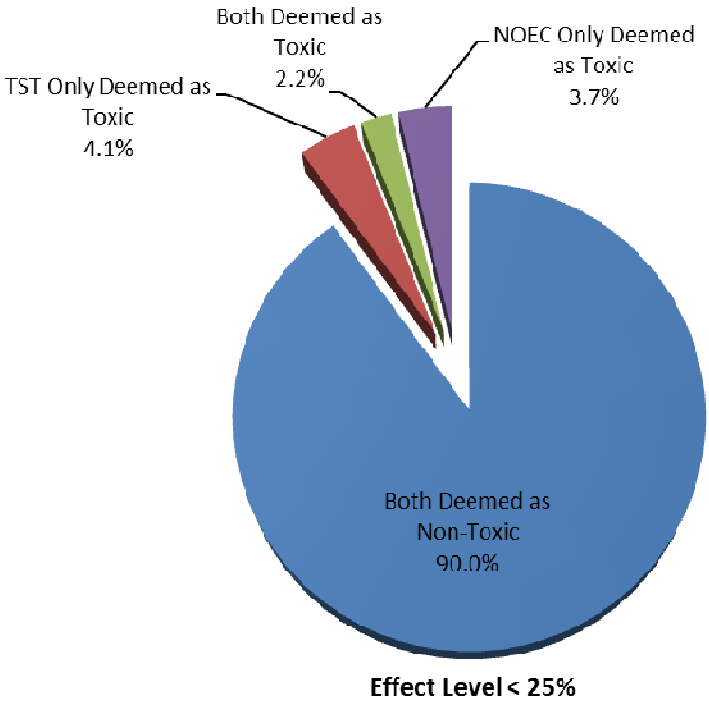

Figure E-3. Summary of the endpoints from the SWAMP and CEDEN data that were declared toxic using TST and NOEC analysis with a mean effect at the IWC less than the toxic RMD of 25% for chronic tests. These percentages include those tests having effects at the IWC less than or equal to the non-toxic RMD of 10%. N=2799 test endpoints.

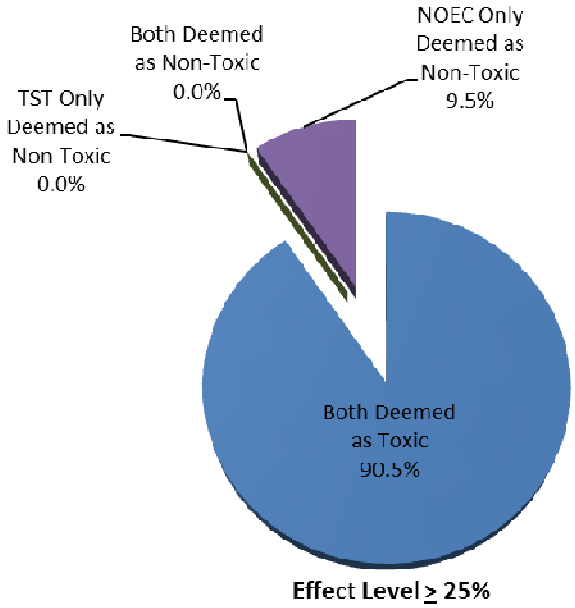

Figure E-4. Summary of the endpoints from the SWAMP and CEDEN data that were declared non-toxic using TST and NOEC analysis with a mean effect at the IWC greater than or equal to the toxic RMD of 25% for chronic tests. N=402 test endpoints**.** This pie chart is smaller than Figure E-3 because it reflects the fewer number of total tests for Figure E-4.

1.0 INTRODUCTION

At the public workshop held on November 16, 2010 in Sacramento, CA, the State Water Resources Control Board (State Water Board) recommended that the State Water Board staff and its contractors conduct a "test drive" of the Test of Significant Toxicity (TST). The TST is a statistical approach developed by U.S. Environmental Protection Agency (EPA) for analyzing whole effluent (WET) and ambient toxicity data (USEPA 2010; Denton et al. 2011), and is being proposed in the State Water Board's draft Policy for Toxicity Assessment and Control. While EPA has demonstrated the advantages of the TST approach using WET and ambient toxicity data across the U.S., additional comparisons of results obtained using TST with results obtained using the current WET statistical approach were recommended to address concerns raised at the Board workshop. The test drive had two specific objectives:

(1) Evaluate and compare resulting interpretations of WET data analyzed using TST and the No Observed Effect Concentration (NOEC) statistical approach currently being used in California's WET programs.

(2) Determine how many (if any) additional within-test replicates for the control and IWC would be needed to declare samples non-toxic that were initially identified as toxic using TST, and had and a mean effect less than the toxic TST regulatory management decision (RMD) for unacceptable toxicity (25% for chronic and 20% for acute tests).

Using data from a number of sources, the first objective identified the number of tests passing or failing, the range of effects associated with passing or failing, and the within-test variability associated with these tests using the TST and the NOEC approach. This information is useful because it describes the comparison of WET results using the two different statistical analysis approaches, and demonstrates why differences are observed. The second objective further addresses how many replicates could be added for those tests which were declared toxic below the toxic RMD in order to increase the probability of declaring those tests non-toxic.

In addition to evaluating effluent WET data, this test drive also includes results comparing the current t-test approach and TST for over 1,000 ambient WET tests collected under the Surface Water Ambient Monitoring Program (SWAMP) program.

2.0 METHODS

2.1 WET Data Collection

Valid WET data from wastewater dischargers were compiled and analyzed in this test drive. To ensure that representative WET data were used, data were obtained from wastewater effluents from a variety of facilities including small facilities from underprivileged communities. Facilities represented in this test drive encompassed a range of instream waste concentrations (<5% - 100%), various treatment types (e.g., various forms of secondary treatment), a range of population sizes served (very small - very large), and wide geographic range (northern and southern California). In addition, WET data were generated by many commercial laboratories including WET laboratories in California. A total of 981 tests were compiled in this test drive. Each discharger was assigned a code letter to maintain anonymity. To increase the number of tests available for certain WET methods, WET data were provided by the State of Washington for numerous dischargers (e.g., *Daphnia* acute test). All of the WET data from the dischargers in Washington were grouped into one discharger code (referred to as Facility I in this report). In addition, all of the WET data grouped as Facility L in this report were generated using ambient dry weather WET tests from various sample locations in California (Southern California Coastal Research Water Project directly provided data).

Additional ambient and stormwater WET test data were analyzed and provided by the SWAMP database and the California Environmental Data Exchange Network (CEDEN). These data included 3201endpoints that were analyzed using TST and NOEC including *C. dubia* reproduction, *P. promelas* survival and growth, and *Selenastrum* growth and include both dry and wet weather based events. The SWAMP data analyses used the full statistical method set forth in Appendix H of the EPA Chronic WET test manual (USEPA 2002). This involved testing for normality and homogeneity of variances, and then running a Wilcoxon test, heteroschedastic t-test, or homoschedastic t-test, as appropriate. For simplicity, the term “t-test” is used throughout this report to refer to the SWAMP WET test analyses.

2.2 WET Data Analysis and Database Construction

WET data were provided in one of the following formats: CETIS export database files, Microsoft Excel files, PDF image files of lab reports, and printed copies of CETIS and ToxCalc report datasheets. Data obtained included organism response data for each replicate and effluent concentration as required by the EPA method. In addition, the facility instream waste concentration (IWC) was obtained so that a “pass” or “fail” could be determined for each test using the current NOEC approach and TST.

As data files were received they were either imported (CETIS export files) or hand entered (Excel files, PDF files, and hard copy reports) into a unified CETIS database. All WET test data were then analyzed in CETIS to generate a NOEC value for both lethal and sub-lethal endpoints. Test Acceptability Criteria (TAC) was also examined for each test using CETIS. Tests that did not meet all TAC for a given method (49 tests, or 5.0% of the 981 tests received) were not used in analysis.

Some of the tests examined, including those from Washington, did not use the IWC as one of the test concentrations. In these cases, the nearest effluent concentration tested was used in the analysis, provided it was within 5% of that facility's IWC. Tests that did not have test concentrations within 5% of the facility's IWC (42 tests, or 4.5% of the 932 tests) were not analyzed in this Test Drive. Therefore, the total number of valid, usable tests analyzed in this test drive was 890.

NOEC, mean organism response, coefficient of variation (CV) and standard deviation in the control and IWC for each endpoint were exported from CETIS and imported into a Microsoft Excel spreadsheet which was created to store all test records. CETIS analytical reports were also printed for each WET test including all viable endpoints. The CETIS reports were then used to hand enter the control and IWC replicate data for each test and endpoint into EPA's TST calculator (version 1.4) for TST analysis. The results of the TST analysis and mean percent effect were then hand entered from the TST calculator into the project Microsoft Excel spreadsheet (Appendix A). The hand-entered data were double checked by an independent reviewer to ensure data accuracy of analyses. Throughout this report, the use of IWC is either the Instream Waste Concentration for effluents or the 100% stormwater or ambient site water.

2.3 Analysis Using Additional Replicates

TST is designed to nearly always declare a chronic test toxic when the mean percent effect at the IWC is ≥ 25% compared to the control or ≥ 20% effect in an acute test. In addition, TST will nearly always pass a sample when the mean percent effect at the IWC is ≤ 10% compared to the control. At effect levels between these boundaries (10 and 25% effect for chronic tests and 10 and 20% effect for acute tests), TST is designed to pass most tests if within-test variability is at or below the national average for the method. One way to lower within-test variability is for laboratories to test additional replicates. Testing additional replicates beyond the minimum required in a method often provides more certainty in results using TST. This study evaluated the effect of adding replicates to those tests declared toxic using TST that had < 25% effect in a chronic test or < 20% effect in an acute test. Results of this analysis provide useful information to permittees, laboratories, and the State Water Board regarding within-test variability and demonstrate an advantage to the permittee of using more than the minimum required number of replicates in certain cases.

Additional replicates were simulated using an automated integer-based number generator in Excel where the random number generator function was bounded by the minimum and maximum organism response values observed in the control and in the IWC. For example, if the control minimum and maximum values in a *Ceriodaphnia* reproduction test were 16 and 30 neonates, respectively, and the IWC minimum and maximum were 12 and 29, the formula would be applied individually to the control and IWC using these minimum and maximum values. Random number generation was used to simulate additional replicates because this is an unbiased and objective procedure. Replicates were added one at a time to both the control and IWC groups and analyzed using TST until either the result of the TST analysis declared the test non-toxic, or double the number of replicates were added.

3.0 RESULTS

3.1 *Haliotis rufescens* Larval Development Test

A total of 117 *Haliotis rufescens* larval development tests were evaluated representing three different facilities. Mean percent effect values at the IWC averaged 2.6%, 7.8%, and 0.7% for facilities A, B, and D, respectively.

TST analysis resulted in 17 tests declared toxic from all facilities combined, while NOEC analysis resulted in 24 tests declared toxic (Table 3-1). One test (from Facility A) had a mean percent effect > 25% at the IWC (31.2% effect) and was declared non-toxic using the NOEC analysis method. This test was declared toxic using TST. For tests with a mean percent effect < 25% at the IWC, two (2.0%) were declared toxic using TST analysis and ten (9.8%) were declared toxic using NOEC analysis (Table 3-1). The tests declared toxic using TST analysis had percent mean effect values of 15.4% and 20.2%, while the tests found toxic using NOEC analysis had percent mean effect values between 5.4% and 20.2%. TST analysis did not declare any tests toxic with a mean percent effect ≤ 10% at the IWC; however, NOEC analysis declared five tests toxic with mean percent effect values ≤ 10% at the IWC (Table 3-1).

Table 3-1. Summary of *Haliotis rufescens* tests declared toxic and non-toxic regardless of mean percent effect and those tests declared toxic with a mean percent effect at the IWC < 25% and ≤ 10% for each analysis method grouped by facility. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic		Number (Percent) of Tests Declared Toxic with < 25% Effect at IWC		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
A	27	19 (70)	19 (70)	8 (30)	8 (30)	2(7)	3 (11)	0 (0)	0 (0)
B	25	16 (64)	9 (36)	9 (36)	16 (64)	0 (0)	7 (28)	0 (0)	5 (20)
D	65	65 (100)	65 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Control variability for the two tests declared toxic using TST analysis with a mean percent effect < 25% was between the 25th and 50th percentile based on the national distribution (USEPA, 2010; Table 3-2). The IWC in both of these tests had at least double the 90th percentile control variability reported in the national distribution at the IWC (Table 3-2).

For the two tests declared toxic using TST with a mean percent effect < 25% at the IWC, replicates were added to the control and IWC to determine if this resulted in the test being declared non-toxic. The test that had a mean percent effect of 15.4% needed one additional replicate to be declared non-toxic, while the test that had a mean effect of 20.2% was declared toxic using TST with up to five additional replicates (Table 3-3). This latter test had a high within-test variability (SD = 0.009 and 0.208 for control and IWC, respectively).

Table 3-2. Range of standard deviations (SD) observed in the control and IWC for the *Haliotis rufescens* tests declared toxic using TST and NOEC when the mean percent effect < 25% by facility and compared to the national distributions from USEPA, 2010 (NA = No tests were declared toxic with < 25% effect at the IWC).

Analysis Method / Concentration	Facility	Minimum SD	Median SD	Maximum SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
TST / Control	A	0.01	0.02	0.03	0.01	0.03	0.04	0.06
	B	NA	NA	NA				
	D	NA	NA	NA				
TST / IWC	A	0.12	0.16	0.21				
	B	NA	NA	NA				
	D	NA	NA	NA				
NOEC / Control	A	0.01	0.01	0.03				
	B	0.01	0.02	0.04				
	D	NA	NA	NA				
NOEC / IWC	A	0.00	0.05	0.11				
	B	0.02	0.03	0.05				
	D	NA	NA	NA				

Table 3-3. Effect of adding additional replicates on results of *Haliotis rufescens* tests declared toxic when the mean effect was < 25% for facility A. NC = no change in result using up to 5 additional replicates (i.e., 10 replicates for IWC and control).

Facility	Mean Effect at IWC (%)	Found Non-Toxic With Additional Replicates	Number of Additional Replicates Needed
A	15.40	Yes	1
A	20.20	No	NC

3.2 *Macrocystis pyrifera* Germination and Germ-tube length Test

3.2.1 Germination

A total of 43 *Macrocystis pyrifera* germination tests were evaluated representing three different facilities. Mean percent effect values at the IWC averaged 0%, 1.5%, and 2.3% for facilities D, E, and G, respectively, and maximum mean percent effect values observed were 5.6%, 4.5%, and 9.9% for facilities D, E, and G, respectively. No tests were declared toxic using either TST or NOEC analysis.

3.2.2 Germ-tube length

A total of 43 *Macrocystis pyrifera* germ-tube length tests were evaluated representing three different facilities. Mean percent effect values at the IWC averaged 0%, 0%, and 3.9% for facilities D, E, and G, respectively. All four tests from facility E had a mean percent effect of 0. Maximum mean percent effect values from facilities D and G were 15.1% and 25.2%, respectively.

TST and NOEC analysis resulted in one test declared toxic each, based on all facilities combined (Table 3-4). No tests were declared toxic using TST analysis with a mean percent effect < 25% and one (2.4%) test was deemed toxic using NOEC analysis (Table 3-4). The test found to be toxic using NOEC analysis had a mean percent effect of 15.1% at the IWC. Neither analysis method declared any test toxic with a mean percent effect ≤ 10% at the IWC (Table 3-4).

Table 3-4. Summary of *Macrocystis pyrifera* germ-tube length tests declared toxic and non-toxic regardless of mean percent effect, and those tests declared toxic with a mean percent effect at the IWC < 25% and ≤ 10% for each analysis method, grouped by facility. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic		Number (Percent) of Tests Declared Toxic with < 25% Effect at IWC		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
D	29	29 (100)	28 (97)	0(0)	1 (3)	0(0)	1 (3)	0(0)	0(0)
E	4	4 (100)	4 (100)	0(0)	0(0)	0(0)	0(0)	0(0)	0(0)
G	10	9 (90)	10 (100)	1(10)	0 (0)	0(0)	0(0)	0(0)	0(0)

One test with a mean percent effect > 25% was declared non-toxic using the NOEC analysis method. The test was from facility G and had a mean percent effect of 25.2%. TST analysis found this test to be toxic, as it should.

3.3 Urchin Fertilization Test

A total of 61 urchin fertilization tests were evaluated representing three different facilities. Mean percent effect values for the IWC averaged 0.1%, 0.3%, and 2.0% for facilities M, N, and O, respectively. Maximum mean percent effect values observed at facilities M, N, and O were 60.2%, 15.9%, and 99.4%, respectively.

TST analysis declared 16 tests toxic based on all facilities combined while NOEC analysis declared 21 tests toxic (Table 3-5). For tests with a mean percent effect < 25% at the IWC, four tests (8.2%) were declared toxic using TST and nine (18.4%) were declared toxic using NOEC (Table 3-5). The four tests found toxic using TST analysis had mean percent effect values of 15.9%, 19.2%, 24.2%, and 24.3% while the nine tests found toxic using NOEC analysis had mean percent effect values ranging between 1.1% and 24.3%. TST analysis did not declare any tests toxic with a mean percent effect ≤ 10% at the IWC. NOEC analysis declared three tests as toxic with effect values at the IWC ≤ 10% (Table 3-5).

Table 3-5. Summary of urchin fertilization tests declared toxic and non-toxic regardless of percent mean effect, and those tests declared toxic with a percent mean effect at the IWC < 25% and ≤ 10% for each analysis method, grouped by facility. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Non-Toxic		Number (Percent) of Tests Toxic		Number (Percent) of Tests Declared Toxic with < 25% Effect at IWC		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
M	12	10 (83)	10 (83)	2 (17)	2 (17)	0 (0)	0 (0)	0 (0)	0 (0)
N	12	11 (92)	12 (100)	1 (8)	0 (0)	1 (8)	0 (0)	0 (0)	0 (0)
O	37	24 (65)	18 (49)	13 (35)	19 (51)	3 (8)	9 (24)	0 (0)	3 (8)

For the four tests declared toxic using TST with mean percent effect < 25% at the IWC, control SDs were # 50th percentiles and IWC SDs were > 75th percentiles based on the national distribution (Table 3-6). The addition of two replicates to the test with a 15.9% effect resulted in declaring the test non-toxic using TST (Table 3-7). The remaining three tests with effect levels of 19.2%, 24.2%, and 24.3% were still declared toxic using TST analysis, even with the addition of up to five more replicates (Table 3-7) due to relatively high within-test variability and an effect close to the toxic RMD using TST (25% effect).

Table 3-6. Range of standard deviations (SD) observed in the control and IWC for the urchin fertilization tests declared toxic using TST and NOEC when the mean percent effect < 25% by facility. (NA = No tests were declared toxic with < 25% effect at the IWC).

Analysis Method / Concentration	Facility	Minimum SD	Median SD	Maximum SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
TST / Control	M	NA	NA	NA	0.01	0.02	0.04	0.09
	N	0.01	0.01	0.01				
	O	0.01	0.01	0.02				
TST / IWC	M	NA	NA	NA				
	N	0.12	0.12	0.12				
	O	0.07	0.09	0.11				
NOEC / Control	M	NA	NA	NA				
	N	NA	NA	NA				
	O	0.00	0.02	0.03				
NOEC / IWC	M	NA	NA	NA				
	N	NA	NA	NA				
	O	0.01	0.04	0.11				

Table 3-7. Effect of adding additional replicates on the result of the urchin fertilization tests declared toxic when the mean effect is < 25% for facilities N and O. NC = no change in result using up to five additional replicates.

Facility	Mean Effect at IWC (%)	Found Non-Toxic With Additional Replicates	Number of Additional Replicates Needed
N	15.94	Yes	2
O	19.22	No	NC
O	24.20	No	NC
O	24.29	No	NC

3.4 Chronic *Americamysis bahia* Survival and Growth Test

3.4.1 Survival

A total of 46 *Americamysis bahia* chronic tests were evaluated for survival, all from facilities in Washington State (Facility I). The median, 75th percentile, and maximum mean percent effect values were 0%, 4.6%, and 14.3%, respectively. TST and NOEC analysis did not declare any of these tests toxic based on survival.

3.4.2 Growth

For the same 46 tests, as noted for survival, the median, 75th percentile, and maximum percent mean effect values based on growth were 0.5%, 5.0%, and 20.6%, respectively.

TST and NOEC analysis each declared one (2.2%) test toxic (Table 3-8). The test declared toxic using TST had a mean percent effect of 20.6% at the IWC while the test declared toxic using NOEC had a mean percent effect of 16.3%. No test with an effect ≤ 10% at the IWC was declared toxic using either analysis method (Table 3-8).

Control SD for the test declared toxic using TST was comparable to the 90th percentile based on the national distribution (USEPA, 2010; Table 3-9). SD at the IWC for this same test was near the 75th percentile based on the national distribution (Table 3-9). The addition of seven replicates (total of 15 replicates) to this test changed the result to non-toxic using TST analysis (Table 3-10).

Table 3-8. Summary of chronic *Americamysis bahia* growth tests declared toxic and non-toxic regardless of percent mean effect, and those tests declared toxic with a percent mean effect at the IWC < 25% and ≤ 10% for each analysis method at facility I. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic		Number (Percent) of Tests Declared Toxic with < 25% Effect at IWC		Number (Percent) of Tests Delcared Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
I	46	45 (98)	45 (98)	1 (2)	1 (2)	1 (2)	1 (2)	0 (0)	0 (0)

Table 3-9. Standard deviations (SD) observed in the control and IWC for chronic *Americamysis bahia* growth tests declared toxic using TST and NOEC when the mean percent effect < 25% for facility I, and compared to the national distribution from USEPA, 2010.

Analysis Method / Concentration	Facility	SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
TST / Control	I	0.08	0.03	0.04	0.06	0.08
TST / IWC	I	0.06				
NOEC / Control	I	0.04				
NOEC / IWC	I	0.06				

Table 3-10. Effect of additional replicates on the result of chronic *Americamysis bahia* growth tests declared toxic when the mean effect is < 25% for facility I.

Facility	Mean Effect at IWC (%)	Found Non-Toxic With Additional Replicates	Number of Additional Replicates Needed
I	20.61	Yes	7

3.5 *Mytilus* sp. Larval Development Test

A total of 29 *Mytilus sp.* larval development tests were evaluated representing five different facilities. Mean percent effect values for the IWC averaged 0.4%, 4.3%, 2.3%, 1.4%, and 0.3% for facilities I, F, P, Q, and R, respectively. No facility had a mean percent effect value that exceeded 12.6%.

TST did not declare any tests toxic, while NOEC analysis declared nine tests toxic based on all facilities combined (Table 3-11). Nine (31.0%) of these tests were declared toxic using NOEC analysis (Table 3-11). The tests declared toxic using NOEC analysis had mean percent effect values at the IWC that ranged from 2.0% to 12.6%. NOEC analysis declared eight tests with a mean effect at the IWC ≤ 10% as toxic (Figure 3-11).

Table 3-11. Summary of *Mytilus sp.* larval development tests declared toxic and non-toxic regardless of percent mean effect, and those tests declared toxic with a percent mean effect at the IWC < 25% and ≤ 10% for each analysis method, grouped by facility. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic		Number (Percent) of Tests Declared Toxic with < 25% Effect at IWC		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
I	4	4 (100)	4 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
F	9	9 (100)	3 (33)	0 (0)	6 (67)	0 (0)	6 (67)	0 (0)	6 (67)
P	6	6 (100)	3 (50)	0 (0)	3 (50)	0 (0)	3 (50)	0 (0)	2 (33)
Q	5	5 (100)	5 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
R	5	5 (100)	5 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

3.6 Chronic *Atherinops affinis* Survival and Growth Test

3.6.1 Survival

A total of 49 *Atherinops affinis* chronic tests were examined for the survival and biomass endpoint representing two different facilities. Median mean percent effect values for the IWC averaged 0% for both facilities and maximum mean percent effect values were 17% and 36% for facilities D and I, respectively.

TST analysis declared one test toxic based on both facilities combined, while NOEC analysis did not declare any tests as toxic (Table 3-12). The test declared toxic by TST analysis had a mean percent effect of 36% (Facility I). NOEC analysis did not declare this test as toxic. No tests with a mean percent effect < 25% were declared toxic using TST (Table 3-12).

Table 3-12. Summary of chronic *Atherinops affinis* survival tests declared toxic and non-toxic regardless of percent mean effect, and those tests declared toxic with a percent mean effect at the IWC < 25% and ≤ 10% for each analysis method, grouped by facility. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic		Number (Percent) of Tests Declared Toxic with < 25% Effect at IWC		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
D	11	11 (100)	11 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
I	38	37 (97)	38 (100)	1 (3)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

3.6.2 Biomass

This endpoint measures biomass, which is the final dry weight divided by the original number of fish in each test chamber. Median mean percent effect values for biomass at the IWC averaged

0.7% and 0.4% for facilities D and I, respectively. Maximum mean percent effect values observed for both facilities did not exceed 25.5%.

Both TST and NOEC analysis declared one test toxic based on both facilities combined (Table 3-13). One test with a mean percent effect > 25% (25.5% effect Facility I) was declared non-toxic using NOEC. TST analysis declared this test to be toxic. For tests with a mean percent effect < 25% at the IWC, one (2.1%) test was declared toxic using the NOEC analysis method (Table 3-13). The test declared toxic using NOEC analysis had a mean percent effect of 14.7%. No tests with a mean percent effect ≤ 10% at the IWC were declared toxic using either analysis method (Table 3-13).

Table 3-13. Summary of chronic *Atherinops affinis* biomass tests declared toxic and non-toxic regardless of percent mean effect, and those tests declared toxic with a percent mean effect at the IWC < 25% and < 10% for each analysis method, grouped by facility. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic		Number (Percent) of Tests Declared Toxic with < 25% Effect at IWC		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
D	11	11 (100)	11 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
I	38	37 (97)	37 (97)	1 (3)	1 (3)	0 (0)	1 (3)	0 (0)	0 (0)

3.7 Chronic *Ceriodaphnia dubia* Reproduction Test

A total of 203 chronic *Ceriodaphnia dubia* reproduction tests were evaluated representing five different facilities. Facilities H and L had 17 and 13 tests, respectively, included in this analysis that were below the lower bound percent minimum significant difference (PMSD) of 0.13. Maximum mean percent effect values at the IWC did not exceed 21.0% at facilities H, J, and K, while facilities I and L had maximum effect values of 65.0% and 100.0%, respectively at the IWC.

TST analysis declared 54 tests toxic based on all facilities combined, while NOEC analysis declared 48 tests toxic (Table 3-14). Four tests with mean percent effects > 25% at the IWC were declared non-toxic using the NOEC (all from facility L). Two of the four tests had mean percent effect values of 30.9%, and the others had effect values of 26.3% and 25.1%. TST analysis declared these tests toxic. Ten (6.2%) tests with a mean percent effect < 25% were declared toxic using TST, and eight (4.9%) tests were declared toxic using the NOEC analysis (Table 3-14). The tests declared toxic using TST had mean percent effect values ranging from 15.7% to 22.0% at the IWC, while the tests declared toxic using the NOEC had mean percent effect values ranging from 5.0% to 22.0% at the IWC. Two of the four tests declared toxic for facility L had PMSD values below the lower bound PMSD for this test endpoint (0.086 and 0.129; lower bound = 0.13). TST did not declare any tests with a mean percent effect ≤ 10% as toxic; however, NOEC analysis declared three tests toxic with effect values ≤ 10% at the IWC (Table 3-14). All of these three tests had PMSD values above the lower bound of 0.13.

For those tests declared toxic using TST analysis with a mean percent effect < 25%, control SDs were near the 75th percentile based on the national distribution (USEPA, 2010; Table 3-15). SDs at the IWC for these same tests were near or above the 90th percentile of the national distribution (USEPA, 2010; Table 3-15).

Table 3-14. Summary of *Ceriodaphnia dubia* reproduction tests declared toxic and non-toxic regardless of percent mean effect and those tests declared toxic with a percent mean effect at the IWC < 25% and ≤ 10% for each analysis method grouped by facility. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic		Number (Percent) of Tests Declared Toxic with < 25% Effect at IWC		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
H	40	40 (100)	40 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
I	7	6 (86)	6 (86)	1 (14)	1 (14)	0 (0)	0 (0)	0 (0)	0 (0)
J	15	14 (93)	13 (87)	1 (7)	2 (13)	1 (7)	2 (13)	0 (0)	2 (13)
K	15	14 (93)	13 (87)	1 (7)	2 (13)	1 (7)	2 (13)	0 (0)	1 (7)
L	126	75 (60)	83 (66)	51 (40)	43 (34)	8 (6)	4[1] (3)	0 (0)	0 (0)

1. Two tests were below the lower bound PMSD for this endpoint.

Table 3-15. Range of standard deviations (SD) observed in the control and IWC for the *Ceriodaphnia dubia* reproduction tests declared toxic using TST and NOEC when the mean percent effect < 25% by facility, and compared to the national distribution from EPA, 2010 (NA = No tests were declared toxic with < 25% effect at the IWC).

Analysis Method / Concentration	Facility	Minimum SD	Median SD	Maximum SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
TST / Control	H	NA	NA	NA	2.64	3.79	5.82	8.41
	I	NA	NA	NA				
	J	5.02	5.02	5.02				
	K	4.84	4.84	4.84				
	L	2.92	6.42	10.15				
TST / IWC	H	NA	NA	NA				
	I	NA	NA	NA				
	J	10.70	10.70	10.70				
	K	10.15	10.15	10.15				
	L	2.96	8.29	12.53				
NOEC / Control	H	NA	NA	NA				
	I	NA	NA	NA				
	J	9.51	9.96	10.41				
	K	3.66	4.25	4.84				
	L	1.51	2.99	6.49				

Table 3-15. Continued.

Analysis Method / Concentration	Facility	Minimum SD	Median SD	Maximum SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
NOEC / IWC	H	NA	NA	NA	2.64	3.79	5.82	8.41
	I	NA	NA	NA				
	J	3.16	5.58	8.00				
	K	3.30	6.73	10.15				
	L	2.96	5.47	7.48				

For five of those ten tests in which TST declared the test toxic and there was < 25% mean effect at the IWC, the addition of up to 10 more replicates (total of 20 replicates each for the IWC and control) did not change the results to non-toxic due to high within-test variability (Table 3-16). The tests with effects of 20.6%, 15.7%, 15.7%, 22%, and 17.4% were found non-toxic with seven, five, one, one, and one additional replicates, respectively (totals of 17, 15, 11, 11, and 11 replicates, respectively; Table 3-16).

Table 3-16. Effect of adding additional replicates on the result of *Ceriodaphnia dubia* reproduction tests declared toxic when the mean effect is < 25% for facilities J, K, and L. NC = no change in result using up to ten additional replicates (total of 20 replicates).

Facility	Mean Effect at IWC (%)	Found Non-Toxic With Additional Replicates	Number of Additional Replicates Needed
J	20.83	No	NC
K	19.44	No	NC
L	20.59	Yes	7
L	20.29	No	NC
L	15.65	Yes	5
L	16.43	No	NC
L	15.69	Yes	1
L	20.00	No	NC
L	21.96	Yes	1
L	17.37	Yes	1

3.8 Chronic *Pimephales promelas* Survival and Growth Test

3.8.1 Survival

A total of 83 chronic *Pimephales promelas* tests were evaluated representing three different facilities. Mean percent effect values for the IWC averaged zero for survival for all three facilities. No facility had a maximum mean percent effect that was > 25%. The maximum mean percent values observed at facilities H, I, and J were 10.3, 25, and 2.5, respectively.

TST analysis declared two tests toxic for survival while NOEC analysis declared one test toxic from all facilities combined (Table 3-17). For tests with a mean percent effect < 25% at the IWC, one (1.2%) was declared toxic using both TST and NOEC analysis methods (Table 3-17). The mean percent effect value for the test declared toxic using both analysie was 23.1%. Both TST and NOEC analysis did not declare any tests with ≤ 10% effect at the IWC as toxic (Table 3-17).

Table 3-17. Summary of the *Pimephales promelas* chronic survival tests declared toxic and non-toxic regardless of mean percent effect, and those tests declared toxic with a mean percent effect at the IWC < 25% and ≤ 10% for each analysis method, grouped by facility. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Non-Toxic		Number (Percent) of Tests Toxic		Number (Percent) of Tests Toxic with < 25% Effect at IWC		Number (Percent) of Tests Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
H	13	13 (100)	13 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
I	43	41 (95)	42 (98)	2 (5)	1 (2)	1 (2)	1 (2)	0 (0)	0 (0)
J	27	27 (100)	27 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

For the test declared toxic using TST with a mean percent effect < 25%, control SD was near the 50th percentile based on the national distribution (USEPA, 2010; Table 3-18). SD at the IWC for this test was between the 50th and 75th percentile based on the national distribution (USEPA, 2010; Table 3-18). The addition of three replicates resulted in declaring the test non-toxic using TST (Table 3-19).

Table 3-18. Range of standard deviations (SDs) observed in the control and IWC for the *Pimephales promelas* chronic survival tests declared toxic using TST and NOEC when the mean percent effect < 25% by facility, and compared to the national distributions for *Pimephales promelas* growth values from USEPA, 2010 (NA = No tests were declared toxic with < 25% effect at the IWC).

Analysis Method / Concentration	Facility	Minimum SD	Median SD	Maximum SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
TST / Control	H	NA	NA	NA	0.03	0.05	0.08	0.11
	I	0.05	0.05	0.05				
	J	NA	NA	NA				
TST / IWC	H	NA	NA	NA				
	I	0.07	0.07	0.07				
	J	NA	NA	NA				
NOEC / Control	H	NA	NA	NA				
	I	0.05	0.05	0.05				
	J	NA	NA	NA				

Table 3-18. Continued

Analysis Method / Concentration	Facility	Minimum SD	Median SD	Maximum SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
NOEC / IWC	H	NA	NA	NA	0.03	0.05	0.08	0.11
	I	0.07	0.07	0.07				
	J	NA	NA	NA				

Table 3-19. Effect of adding additional replicates on the result of *Pimephales promelas* survival tests declared toxic when the mean effect is < 25% for facility I.

Facility	Mean Effect at IWC (%)	Found Non-Toxic With Additional Replicates	Number of Additional Replicates Needed
I	23.08	Yes	3

3.8.2 Biomass

Similar to the *Atherinops* chronic test, this endpoint measures biomass. The same 83 chronic *Pimephales promelas* chronic tests were evaluated for the biomass (weight) endpoint representing three different facilities. Median mean percent effect values for the IWC averaged 1.2%, 2.2%, and 2.7% for facilities H, I, and J, respectively. Maximum effect values were 7.0%, 18.8%, and 10.2% for facilities H, I, and J, respectively.

TST analysis declared three (3.6%) tests toxic (all from facility I), while NOEC declared no tests toxic for this endpoint (Table 3-20). All three tests had a mean percent effect < 25% at the IWC (18.8%, 17.4%, and 14.8%, Table 3-20). Both TST and NOEC analysis did not declare any tests with ≤ 10% effect at the IWC as toxic (Table 3-20).

Among those tests declared toxic using TST with a mean percent effect < 25%, control SDs were between 25th and > 90th percentile based on the national distribution (USEPA, 2010; Table 3-21). SDs for the IWC in these three tests were between the 50th and > 90th percentile based on the national distribution (USEPA, 2010; Table 3-21). For the three tests, two were declared non-toxic using TST analysis with the addition of one replicate (Table 3-22). These two tests had mean percent effects of 17.4% and 14.8%. The test that had a mean effect of 18.8% was declared toxic with up to five additional replicates (Table 3-22). The SDs in the control and IWC for this test at Facility I were both at the 50th percentile.

Table 3-20. Summary of chronic *Pimephales promelas* biomass tests declared toxic and non-toxic regardless of percent mean effect ,and those tests declared toxic with a percent mean effect at the IWC < 25% and ≤ 10% for each analysis method, grouped by facility. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic		Number (Percent) of Tests Declared Toxic with < 25% Effect at IWC		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
H	13	13 (100)	13 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
I	43	40 (93)	43 (100)	3 (7)	0 (0)	3 (7)	0 (0)	0 (0)	0 (0)
J	27	27 (100)	27 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)

Table 3-21. Range of standard deviations (SD) observed in the control and IWC for chronic *Pimephales promelas* biomass tests declared toxic using TST and NOEC when the mean percent effect < 25% by facility, and compared to the national distributions from USEPA, 2010 (NA = No tests were declared toxic with < 25% effect at the IWC).

Analysis Method / Concentration	Facility	Minimum SD	Median SD	Maximum SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
TST / Control	H	NA	NA	NA	0.03	0.05	0.08	0.11
	I	0.03	0.05	0.13				
	J	NA	NA	NA				
TST / IWC	H	NA	NA	NA				
	I	0.05	0.05	0.13				
	J	NA	NA	NA				
NOEC / Control	H	NA	NA	NA				
	I	NA	NA	NA				
	J	NA	NA	NA				
NOEC / IWC	H	NA	NA	NA				
	I	NA	NA	NA				
	J	NA	NA	NA				

Table 3-22. Effect of adding additional replicates on the result of *Pimephales promelas* biomass tests declared toxic when the mean effect is < 25% for facility I. NC = no change in result using up to five additional (total of 9) replicates.

Facility	Mean Effect at IWC (%)	Found Non-Toxic With Additional Replicates	Number of Additional Replicates Needed
I	17.40	Yes	1
I	14.79	Yes	1
I	18.83	No	NC

3.9 *Selenastrum capricornutum* Growth Test

A total of 44 *Selenastrum capricornutum* growth tests were evaluated representing two different facilities. Facility C had 9 tests included in this analysis that were below the lower bound PMSD of 0.091. Maximum mean percent effect values were 23.4% and 89.4% for facilities H and C, respectively.

TST analysis and NOEC analysis each declared 24 tests toxic based on both facilities combined (Table 3-23). For tests with a mean percent effect < 25% at the IWC, TST analysis and NOEC analysis each declared one test (4.6%) toxic (Table 3-23). The test declared toxic using TST had a mean percent effect of 23.4% at the IWC and the test declared toxic using NOEC had a mean percent effect of 12.7%. The one test declared toxic using NOEC analysis for facility C had PMSD values below the lower bound PMSD for this test endpoint (0.08; lower bound PMSD = 0.09). No tests with a mean percent effect ≤ 10% at the IWC were declared toxic using either analysis method (Table 3-23).

Table 3-23. Summary of *Selenastrum capricornutum* growth tests declared toxic and non-toxic regardless of percent mean effect, and those tests declared toxic with a percent mean effect at the IWC < 25% and ≤ 10% for each analysis method grouped by facility. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic		Number (Percent) of Tests Declared Toxic with < 25% Effect at IWC		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
C	30	7 (23)	6 (20)	23 (77)	24 (80)	0 (0)	1[1] (3)	0 (0)	0 (0)
H	14	13 (93)	14 (100)	1 (7)	0 (0)	1 (7)	0 (0)	0 (0)	0 (0)

1. This test was below the lower bound PMSD for this endpoint.

Control SD for the one test declared toxic using TST with a mean percent effect < 25% was nearly double the 90th percentile based on the national distribution (USEPA, 2010; Table 3-24). The SD at the IWC was over four times the 90th percentile based on the national distribution (USEPA, 2010; Table 3-24). The use of up to five additional replicates for this test did not change the result using TST; the test was still declared toxic (Table 3-25) due to the very high within-test variability.

Table 3-24. Range of standard deviations (SD) observed in the control and IWC for *Selenastrum capricornutum* growth tests declared toxic using TST and NOEC when the mean percent effect < 25% by facility, and compared to the national distributions from USEPA, 2010 (NA = No tests were declared toxic with < 25% effect at the IWC).

Analysis Method / Concentration	Facility	Minimum SD	Median SD	Maximum SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
TST / Control	C	NA	NA	NA	135154	309232	447446	583299
	H	963200	963200	963200				
TST / IWC	C	NA	NA	NA				
	H	2800000	2800000	2800000				
NOEC / Control	C	31400	31400	31400				
	H	NA	NA	NA				
NOEC / IWC	C	24500	24500	24500				
	H	NA	NA	NA				

Table 3-25. Effect of additional replicates on the result of *Selenastrum capricornutum* growth tests declared toxic when the mean effect is < 25% for facility H. NC = no change in result with up to five additional (total of 10) replicates.

Facility	Mean Effect at IWC (%)	Found Non-Toxic With Additional Replicates	Number of Additional Replicates Needed
H	23.39	No	NC

3.10 Acute Daphnid Survival Test

A total of 82 acute daphnid survival tests using either *Daphnia pulex* or *Ceriodaphnia dubia* were evaluated for several facilities in Washington State. Mean percent effect was 0% for 75% of the tests and the maximum percent effect observed was 100%.

TST analysis declared four tests toxic from all facilities combined while NOEC analysis declared one test toxic (Table 3-26). One test was declared non-toxic using NOEC analysis with a mean percent effect > 20% in the IWC (21.0% effect). TST declared this test toxic. For tests with a mean percent effect < 20% at the IWC, two (2.5%) were declared toxic using TST analysis and no tests were declared toxic using the NOEC analysis (Table 3-26). The two tests declared toxic using TST had mean percent effect values of 10.5% and 15.0%. Neither analysis method declared any tests toxic with a mean percent effect ≤ 10% (Table 3-26).

For the two tests found toxic using TST analysis at a mean percent effect < 20%, one test had a control standard deviation equal to the 90th percentile based on the national distribution (USEPA, 2010; Table 3-27). SDs at the IWC for these two tests were either equal to or nearly double the 90th percentile of the national distribution (USEPA, 2010; Table 3-27). Adding one or two replicates to either of these two tests resulted in TST declaring the tests non-toxic (Table 3-28).

Table 3-26. Summary of acute daphnid survival tests declared toxic and non-toxic regardless of the mean percent effect, and those tests declared toxic with a mean percent effect at the IWC < 20% and ≤ 10% for each analysis method. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic		Number (Percent) of Tests Declared Toxic with < 20% Effect at IWC		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
I	82	78 (95)	81 (99)	4 (5)	1 (1)	2 (2)	0 (0)	0 (0)	0 (0)

Table 3-27. Range of standard deviations (SD) observed in the control and IWC for acute daphnid survival tests declared toxic using TST and NOEC when the mean percent effect was < 20% compared to the national distributions from 2010b (NA = No tests were declared toxic with < 20% effect at the IWC).

Analysis Method / Concentration	Facility	Minimum SD	Median SD	Maximum SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
TST / Control	I	0.00	0.05	0.10	0.00	0.00	0.00	0.10
TST / IWC	I	0.10	0.15	0.19				
NOEC / Control	I	NA	NA	NA				
NOEC / IWC	I	NA	NA	NA				

Table 3-28. Effect of adding additional replicates on the result of the acute daphnid tests declared toxic when the mean effect is < 20% for facility I.

Facility	Mean Effect at IWC (%)	Found Non-Toxic With Additional Replicates	Number of Additional Replicates Needed
I	15.00	Yes	1
I	10.53	Yes	2

3.11 Acute Four Replicate Fish Survival Test

A total of 99 acute, four-replicate fish survival tests using *Pimephales promelas*, *Atherinops affinis*, *Oncorhynchus mykiss*, or *Menidia beryllina* were evaluated representing one facility in California (D), as well as several in Washington State (I). Facility D had a mean percent effect at the IWC between 0% and 5.0%. The Washington facilities had mean percent effect values ranging between 0 and 10.0%.

TST analysis resulted in one test declared toxic while NOEC analysis declared no tests toxic (Table 3-29). For tests with a mean percent effect < 20% at the IWC, one (1.0%) test was

declared toxic using TST analysis and no tests were declared toxic using NOEC analysis (Table 3-29). The test found to be toxic using TST analysis had a mean percent effect value of 10.0% and an SD in the IWC near the 90th percentile control SD found in USEPA, 2010 (Table 3-30).

Table 3-29. Summary of the acute four replicate fish survival tests declared toxic and non-toxic regardless of percent mean effect and those tests declared toxic with a percent mean effect at the IWC < 20% and ≤ 10% for each analysis method grouped by facility. Numbers in parentheses represent the percentage based on all tests for a given facility.

Facility	N	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic		Number (Percent) of Tests Declared Toxic with < 20% Effect at IWC		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC	
		TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
D	15	15 (100)	15 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
I	84	83 (99)	84 (100)	1 (1)	0 (0)	1 (1)	0 (0)	1 (1)	0 (0)

Table 3-30. Standard deviations (SD) observed in the control and IWC for the four replicate fish acute survival tests declared toxic using TST and NOEC when the mean percent effect < 20% by facility and compared to the national distributions from USEPA, 2010 (NA = No tests were declared toxic with < 20% effect at the IWC).

Analysis Method/ Concentration	Facility	SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
TST / Control	D	NA	0.00	0.00	0.00	0.18
	I	0				
TST / IWC	D	NA				
	I	0.14				
NOEC / Control	D	NA				
	I	NA				
NOEC / IWC	D	NA				
	I	NA				

For the one test declared toxic using TST with a mean percent effect < 20%, one additional replicate was sufficient to declare the test non-toxic (Table 3-31).

Table 3-31. Effect of adding additional replicates on the result of acute fish tests declared toxic when the mean effect is < 20% for facility I.

Facility	Mean Effect at IWC (%)	Found Non-Toxic With Additional Replicates	Number of Additional Replicates Needed
I	10.00	Yes	1

3.12 Acute Four Replicate *Americamysis bahia* Survival Test

A total of 18 acute *Americamysis bahia* survival tests were evaluated representing two different facilities. Maximum percent effect values from facilities D and I did not exceed 7.9%. TST and NOEC analysis did not declare any of these tests toxic.

3.13 Small Facility Results – All Methods

A total of 16 WET tests were provided from three smaller facilities (from underprivileged communities) in California. Data included one *Selenastrum capricornutum* growth test, six *Ceriodaphnia dubia* reproduction tests, seven *Pimephales promelas* survival and biomass tests, and two acute *Ceriodaphnia dubia* survival tests.

TST analysis resulted in nine tests declared toxic while NOEC analysis declared six tests toxic (Table 3-32). For tests with a mean percent effect < 25% for chronic tests or < 20% for acute tests at the IWC, four (36.4%) tests were declared toxic using TST analysis and two (18.2%) tests were declared toxic using NOEC analysis (Table 3-32). One chronic *P. promelas* test with a mean percent effect value of 7.9% was declared toxic based on survival using NOEC analysis, while TST analysis did not declare any tests with a effect $\leq$ 10% as toxic (Table 3-32).

The three *Ceriodaphnia dubia* chronic tests declared toxic using TST analysis had mean percent effect values of 11.8%, 18.3%, and 13.2%. The control SD for the test with an effect of 18.3% fell in the 25th to 50th percentile range of values reported in USEPA, 2010, while the IWC SD for this test was > 75th percentile (Table 3-33). Control SD for the other tests was considerably > 90th percentile reported in the national distribution (USEPA, 2010).

One *Pimephales promelas* survival and biomass test was declared toxic using TST analysis for both endpoints with mean effect values of 18.4% and 13.1%, respectively (Table 3-33). Control SD for each endpoint was $\leq$ 50th percentile value observed in the national distribution (USEPA, 2010; Table 3-33). However, IWC variability for both endpoints was $\geq$ 90th percentile value reported in the national distribution (Table 3-33).

For all four chronic tests that were declared toxic using TST and had mean percent effect < 25%, for chronic or < 20% for acute, no more than three additional replicates were needed to declare the test not toxic (Table 3-34). In all but one of the tests, only one additional replicate was sufficient to declare the test not toxic.

Table 3-32. Summary of the small facility tests declared toxic and non-toxic regardless of percent mean effect, and those tests declared toxic with a percent mean effect at the IWC <25% (20% for acute) and ≤ 10% for each analysis method, grouped by WET test method. Numbers in parentheses represent the percentage based on all tests from the small facilities for a giving method.

WET Test Method	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic		Number (Percent) of Tests Declared Toxic with < 25% Effect (Chronic tests) or 20% Effect (Acute tests) at IWC		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC	
	TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
Selenastrum Growth	0 (0)	0 (0)	1 (100)	1 (100)	0 (0)	0 (0)	0 (0)	0 (0)
C. dubia Reproduction	0 (0)	4 (67)	6 (100)	2 (33)	3 (50)	0 (0)	0 (0)	0 (0)
P. promelas Chronic Survival	6 (86)	5 (71)	1 (14)	2 (29)	1[1] (14)	2 (29)	0 (0)	1 (14)
P. promelas Biomass	6 (86)	7 (100)	1 (14)	0 (0)	1[1] (14)	0 (0)	0 (0)	0 (0)
C. dubia Acute Survival	1 (50)	1 (50)	1 (50)	1 (50)	0 (0)	0 (0)	0 (0)	0 (0)

1. One P. promelas chronic test was found toxic with TST for both the survival and biomass endpoints.

Table 3-33. Range of standard deviations (SD) observed in the control and IWC for tests declared toxic using TST and NOEC when the mean percent effect < 25% compared to the national distributions from USEPA, 2010 (NA = No tests were declared toxic with < 25% effect at the IWC).

Analysis Method / Concentration	Test Endpoint	Minimum SD	Median SD	Maximum SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
TST / Control	C.dubia reproduction	3.23	12.28	12.98	2.64	3.79	5.82	8.41
	P. promelas chronic survival	0.06	0.06	0.06	0.03	0.05	0.08	0.11
	P. promelas chronic biomass	0.02	0.02	0.02	0.03	0.05	0.08	0.11
TST / IWC	C.dubia reproduction	7.01	7.75	9.80	2.64	3.79	5.82	8.41
	P. promelas chronic survival	0.39	0.39	0.39	0.03	0.05	0.08	0.11
	P. promelas chronic biomass	0.14	0.14	0.14	0.03	0.05	0.08	0.11

Table 3-33. Continued

Analysis Method / Concentration	Test Endpoint	Minimum SD	Median SD	Maximum SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
NOEC / Control	C.dubia reproduction	NA	NA	NA	2.64	3.79	5.82	8.41
	P. promelas chronic survival	0.00	0.03	0.06	0.03	0.05	0.08	0.11
	P. promelas chronic biomass	0.02	0.02	0.02	0.03	0.05	0.08	0.11
NOEC / IWC	C.dubia reproduction	NA	NA	NA	2.64	3.79	5.82	8.41
	P. promelas chronic survival	0.05	0.07	0.10	0.03	0.05	0.08	0.11
	P. promelas chronic biomass	0.03	0.03	0.03	0.03	0.05	0.08	0.11

Table 3-34. Effects of adding additional replicates on TST results for WET tests initially declared toxic (mean percent effect at the IWC was < 25% for these chronic tests).

Test	Endpoint	Mean % Effect at IWC	Found Non-Toxic with Additional Replicates	# of Additional Replicates Needed
1	C. dubia Reproduction	11.84	Yes	1
2	C. dubia Reproduction	18.32	Yes	1
3	C. dubia Reproduction	13.21	Yes	3
4	P. promelas biomass	13.07	Yes	1
5	P. promelas Survival	18.42	Yes	1

3.14 SWAMP and CEDEN Database Analysis

The data used in this analysis were queried from the SWAMP database and the CEDEN. Toxicity tests were performed by seven laboratories between September, 2001 and September, 2009. Samples were collected during both dry events and wet weather events throughout the state of California, as well as during irrigation seasons in the central coast, central valley, and other agricultural areas. Test endpoints examined were *C. dubia* chronic reproduction, *P. promelas* chronic survival, *P. promelas* chronic biomass, and *S. capricornutum* 96-hour cell growth. All chronic toxicity tests for which replicate level data were stored in the databases and whose data were deemed acceptable by database quality assurance standards were included in the analysis.

Out of a total of 3,201 WET endpoints analyzed for the SWAMP and CEDEN data, TST declared a total of 578 test endpoints toxic, while NOEC declared 529 test endpoints toxic (Table 3-35). For endpoints with a mean percent effect < 25% at the IWC, 176 (6.3%) were declared toxic using TST and 165 (5.9%) were declared toxic using NOEC (Table 3-35). NOEC declared 21 test endpoints as toxic, while TST declared 2 with an effect ≤ 10% as toxic (Table 3-35).

Table 3-35. Summary of the tests declared toxic and non-toxic regardless of percent mean effect, and those tests declared toxic with a percent mean effect at the IWC <25% and ≤ 10% for each analysis method, grouped by WET test method. Numbers in parentheses represent the percentage based on all tests available in both databases for a giving method.

WET Test Method	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic[1]		Number (Percent) of Tests Declared Toxic with < 25% Effect[2]		Number (Percent) of Tests Declared Toxic with < 10% Effect at IWC[3,5]	
	TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
C. dubia Reproduction	653 (74)	670 (76)	233 (26)	216 (24)	59 (8)	46 (7)	2 (0)	7 (1)
P. promelas Biomass[4]	230 (93)	229 (92)	18 (7)	19 (8)	7 (3)	10 (4)	0 (0)	2 (1)
P. promelas Chronic Survival[4]	492 (78)	582 (92)	142 (22)	52 (8)	83 (14)	22 (4)	0 (0)	0 (0)
Selenastrum Growth	1248 (87)	1191 (83)	185 (13)	242 (17)	27 (2)	87 (7)	0 (0)	12 (1)

1. This includes tests which are truly toxic above the RMD of 20% for acute or 25% for chronic, as well as those tests with effects below the respective RMDs.
2. This includes only tests with effects less than the non-toxic RMD of 25% (chronic) or 20% (acute) effect at 100% site water.
3. This includes only tests with effects less than the non-toxic RMD of 10% at 100% site water.
4. There is likely some overlap between these endpoints in that one test may have had toxicity for survival and biomass.
5. The IWC in the SWAMP/CEDEN tests is 100% "sample water" either from stormwater or ambient sample water.

Mean Control and IWC SD for the *C. dubia* reproduction tests declared toxic using TST with a mean percent effect < 25% was greater than the 75th percentile, while the tests declared toxic using NOEC analysis were below the 75th percentile based on the national distribution (USEPA, 2010; Table 3-36). Mean control SD for the *P. promelas* tests found toxic with the survival endpoint using either analysis method were comparible to the 50th percentile based on the national distribution, however mean IWC SD for these tests were greater than or nearly equal to the national distribution (USEPA, 2010; Table 3-36). For the *P. promelas* tests found toxic with the biomass endpoint using TST analysis, control SD was below the 50th percentile of the national distribution, while IWC SD was greater than the 90th percentile (USEPA, 2010; Table 3-36). The *P. promelas* biomass tests that were deemed toxic using NOEC analysis had control and IWC SD that was near the 50th percentile of the national distribution (USEPA, 2010; Table 3-36).

Table 3-36. Range of standard deviations (SD) observed in the control and IWC for tests declared toxic using TST and NOEC when the mean percent effect < 25% compared to the national distributions from USEPA, 2010 (NA = No tests were declared toxic with < 25% effect at the IWC).

Analysis Method / Concentration	Test Endpoint	Minimum SD	Mean SD	Maximum SD	25th Percentile SD (EPA, 2010)	50th Percentile SD (EPA, 2010)	75th Percentile SD (EPA, 2010)	90th Percentile SD (EPA, 2010)
TST / Control	C. dubia Reproduction	1.57	6.25	12.36	2.64	3.79	5.82	8.41
	P. promelas Chronic Survival	0.00	0.04	0.19	0.03	0.05	0.08	0.11
	P. promelas Chronic Biomass	0.02	0.04	0.07	0.03	0.05	0.08	0.11
TST / IWC	C. dubia Reproduction	2.31	8.08	14.8	2.64	3.79	5.82	8.41
	P. promelas Chronic Survival	0.06	0.19	0.49	0.03	0.05	0.08	0.11
	P. promelas Chronic Biomass	0.07	0.13	0.21	0.03	0.05	0.08	0.11
NOEC / Control	C. dubia Reproduction	1.52	4.45	10.83	2.64	3.79	5.82	8.41
	P. promelas Chronic Survival	0.00	0.03	0.10	0.03	0.05	0.08	0.11
	P. promelas Chronic Biomass	0.01	0.04	0.07	0.03	0.05	0.08	0.11
NOEC / IWC	C. dubia Reproduction	1.79	5.11	12.20	2.64	3.79	5.82	8.41
	P. promelas Chronic Survival	0.01	0.10	0.15	0.03	0.05	0.08	0.11
	P. promelas Chronic Biomass	0.02	0.07	0.15	0.03	0.05	0.08	0.11

4.0 SUMMARY

Based on the 890 valid WET tests evaluated, including all methods commonly used in California, there was high concordance between results obtained using either the TST or the NOEC analysis approach (Table 4-1, Figure 4-1). Both approaches declared a similar percentage of the tests non-toxic or toxic (Table 4-1). For those tests which had a mean effect at the IWC less than the toxic RMD of 25% for chronic methods or 20% for acute methods, TST analysis declared fewer (3.7%) of those tests as toxic compared to the NOEC approach (5.5%; Table 4-1; Figure 4-1). In addition, TST analysis declared a very low percentage (0.1%) of all tests as toxic which had an effect less than or equal to the non-toxic RMD of 10%, while NOEC analysis declared 2.8% of those tests as toxic (Table 4-1). Thus truly non-toxic samples were more often declared non-toxic using TST than using the NOEC approach. The few cases where TST detected toxicity at effects less than the toxic RMD, but above the non-toxic RMD were due to high variability between replicates in the controls and/or IWC treatments. Addition of a minimal number of replicates to these tests usually resulted in the sample being declared non-toxic using the TST procedure.

Table 4-1. Summary of all WET method tests declared toxic and non-toxic regardless of percent mean effect, and those declared toxic with a percent mean effect at the IWC < 25% and ≤ 10% for each analysis method grouped by test type. Numbers represent the percentage based on all tests for a given method type.

Method Type	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic [1]		Number (Percent) of Tests Declared Toxic with < 25% (20% for Acute) Effect at IWC[2]		Number (Percent) of Tests Declared Toxic with ≤ 10% Effect at IWC[3]	
	TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
Chronic Marine	308 (89.3)	288 (83.5)	37 (10.7)	57 (16.5)	7 (2.2)	31 (9.8)	0 (0)	16 (5.6)
Chronic Freshwater	254 (73.8)	266 (77.3)	90 (26.2)	78 (22.7)	19 (7.0)	12 (4.4)	0 (0)	4 (1.7)
Acute Marine	33 (100)	33 (100)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)
Acute Freshwater	162 (96.4)	166 (98.8)	6 (3.6)	2 (1.2)	3 (1.8)	0 (0)	1 (0.6)	0 (0)
All Methods	**757 (85.1)**	**753 (84.6)**	**133 (14.9)**	**137 (15.4)**	**29 (3.7)**	**43 (5.5)**	**1 (0.1)**	**20 (2.8)**

1. This includes tests which are truly toxic above the RMD of 20% for acute or 25% for chronic, as well as those tests with effects below the respective RMDs.
2. This includes only tests with effects less than the non-toxic RMD of 25% (chronic) or 20% (acute) effect at the IWC.
3. This includes only tests with effects less than the non-toxic RMD of 10% at the IWC.

For tests with a mean effect at the IWC greater than or equal to the toxic RMD, TST analysis resulted in a much lower rate of non-toxic tests than the NOEC analysis (Figure 4-2). Thus, TST more consistently identified truly toxic samples than the NOEC analysis.

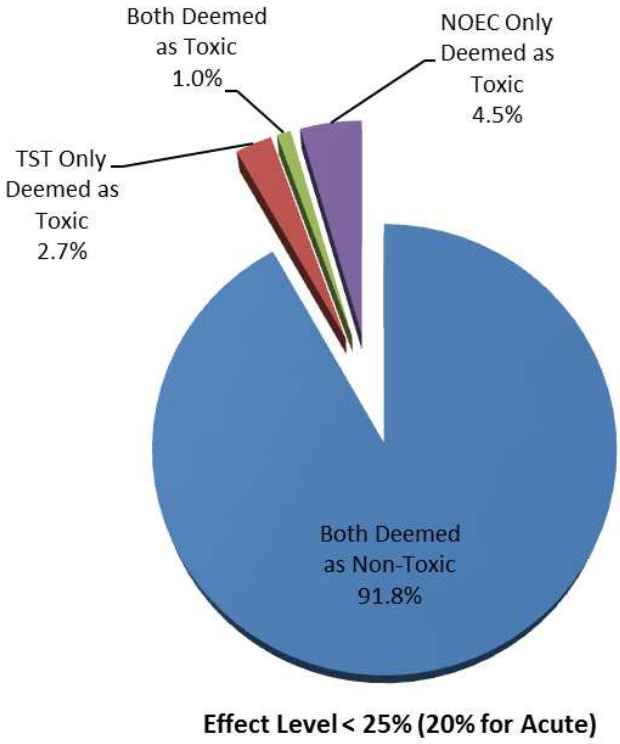

Figure 4-1. Summary of the tests from all methods that were declared toxic using TST and NOEC analysis with a mean effect at the IWC less than the toxic RMD of 25% for chronic or 20% for acute tests. These percentages include those tests having effects at the IWC less than or equal to the non-toxic RMD of 10%. N=786 tests.

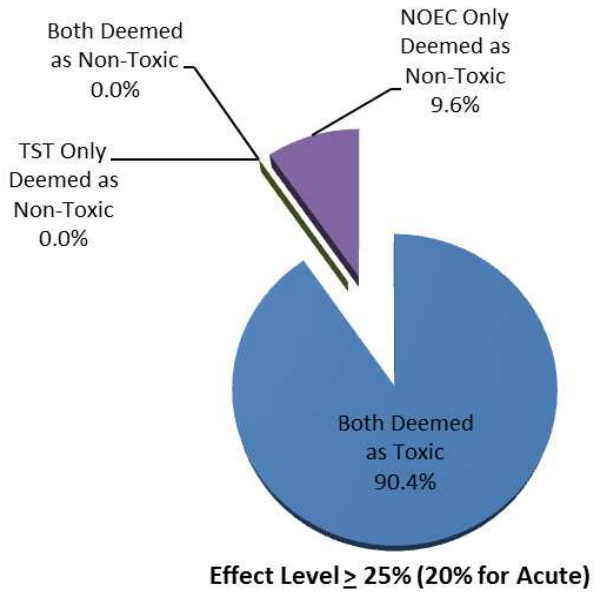

Figure 4-2. Summary of the tests from all methods that were declared non-toxic using TST and NOEC analysis with a mean effect at the IWC greater than or equal to the toxic RMD of 25% for chronic or 20% for acute tests. N=104 tests**.** This pie chart is smaller than Figure 4-1 because it reflects the fewer number of total tests for Figure 4-2.

For the 3,201 SWAMP and CEDEN freshwater ambient chronic toxicity endpoints evaluated, a similar number of tests were declared toxic which had a mean effect at the IWC less than the toxic RMD of 25% using either TST (6.3%) or NOEC (5.9%) analysis (Table 4-2, Figure 4-3). The tests found toxic using TST analysis that were below the toxic RMD were due to high variability between replicates in the controls and/or the sample. In addition, TST analysis declared a very low percentage (0.1%) of all tests as toxic which had an effect less than or equal to the non-toxic RMD of 10%, while NOEC analysis declared 0.9% of those tests as toxic (Table 4-2). For those tests with a mean effect at the IWC greater than or equal to the toxic RMD, TST analysis did not declare any tests non-toxic, while NOEC analysis declared 38 (9.5%) tests as non-toxic (Figure 4-4), similar to the results observed in effluent testing (Figure 4-2).

Table 4-2. Summary of the tests declared toxic and non-toxic regardless of percent mean effect, and those tests declared toxic with a percent mean effect at the IWC <25% and ≤ 10% for each analysis method, grouped by WET test method. Numbers in parentheses represent the percentage based on all tests available in both databases for a given method.

WET Test Method	Number (Percent) of Tests Declared Non-Toxic		Number (Percent) of Tests Declared Toxic[1]		Number (Percent) of Tests Declared Toxic with < 25% Effect[2]		Number (Percent) of Tests Declared Toxic with < 10% Effect at IWC[3,5]	
	TST	NOEC	TST	NOEC	TST	NOEC	TST	NOEC
C. dubia Reproduction	653 (73.7)	670 (75.6)	233 (26.3)	216 (24.4)	59 (8.3)	46 (6.5)	2 (0.3)	7 (1.2)
P. promelas Biomass[4]	230 (92.7)	229 (92.3)	18 (7.3)	19 (7.7)	7 (3.0)	10 (4.2)	0 (0)	2 (0.9)
P. promelas Chronic Survival[4]	492 (77.6)	582 (91.8)	142 (22.4)	52 (8.2)	83 (14.4)	22 (3.8)	0 (0)	0 (0)
Selenastrum Growth	1248 (87.1)	1191 (83.1)	185 (12.9)	242 (16.9)	27 (2.1)	87 (6.8)	0 (0)	12 (1.0)
All Methods	**2623 (81.9)**	**2672 (83.5)**	**578 (18.1)**	**529 (16.5)**	**176 (6.3)**	**165 (5.9)**	**2 (0.1)**	**21 (0.9)**

1. This includes tests which are truly toxic above the RMD of 20% for acute or 25% for chronic, as well as those tests with effects below the respective RMDs.
2. This includes only tests with effects less than the non-toxic RMD of 25% (chronic) or 20% (acute) effect at 100% site water.
3. This includes only tests with effects less than the non-toxic RMD of 10% at 100% site water.
4. There is likely some overlap between these endpoints in that one test may have had toxicity for survival and biomass.
5. The IWC in the SWAMP/CEDEN tests is 100% "sample water" either from stormwater or ambient sample water.

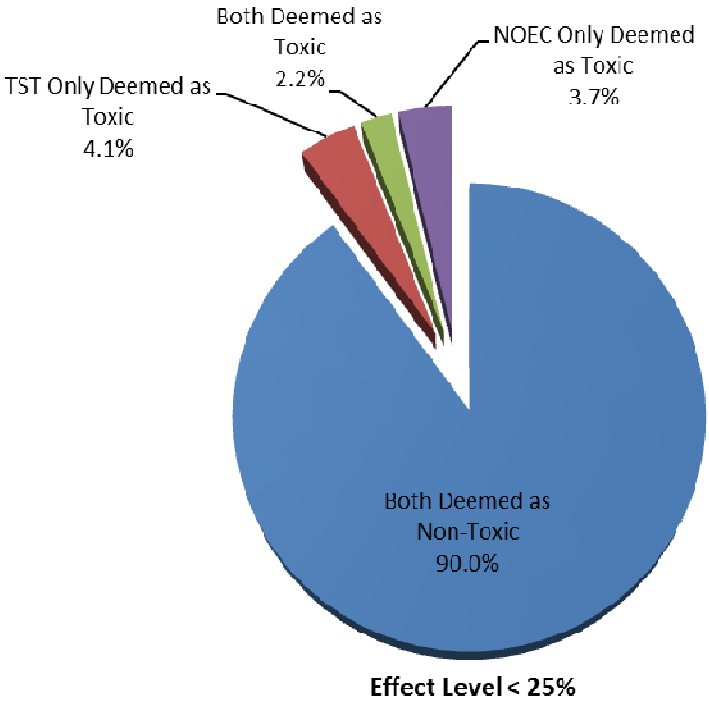

Figure 4-3. Summary of the endpoints from the SWAMP and CEDEN data that were declared toxic using TST and NOEC analysis with a mean effect at the IWC less than the toxic RMD of 25% for chronic tests. These percentages include those tests having effects at the IWC less than or equal to the non-toxic RMD of 10%. N=2799 tests.

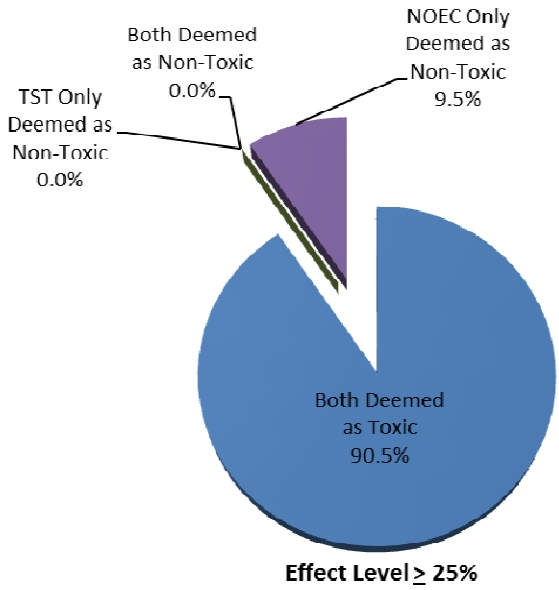

Figure 4-4. Summary of the endpoints from the SWAMP and CEDEN data that were declared non-toxic using TST and NOEC analysis with a mean effect at the IWC greater than or equal to the toxic RMD of 25% for chronic tests. N=402 tests**.** This pie chart is smaller than Figure 4-3 because it reflects the fewer number of total tests for Figure 4-4.

5.0 LITERATURE CITED

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Appendix A

Database of Effluent and Ambient Tests

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.031	0.029	0.85	0.87	Pass	Pass	0.00
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.036	0.030	0.94	0.91	Pass	Pass	3.18
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.037	0.054	0.90	0.78	Fail	Pass	13.56
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.024	0.053	0.92	0.68	Fail	Fail	26.36
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.030	0.033	0.89	0.88	Pass	Pass	1.13
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.011	0.030	0.95	0.76	Fail	Pass	19.87
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.036	0.039	0.89	0.66	Fail	Fail	26.62
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.015	0.042	0.95	0.91	Pass	Pass	4.01
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.023	0.056	0.94	0.64	Fail	Fail	31.34
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.022	0.041	0.89	0.64	Fail	Fail	28.31
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.024	0.012	0.93	0.01	Fail	Fail	98.92
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.023	0.048	0.95	0.56	Fail	Fail	40.51
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.024	0.057	0.86	0.12	Fail	Fail	86.54
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.012	0.032	0.95	0.88	Fail	Pass	7.79
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.018	0.022	0.96	0.95	Pass	Pass	0.84
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.018	0.021	0.96	0.95	Pass	Pass	1.25
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.013	0.038	0.95	0.88	Fail	Pass	7.59
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.018	0.035	0.95	0.89	Fail	Pass	6.50
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.013	0.065	0.94	0.29	Fail	Fail	69.43
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.024	0.038	0.93	0.85	Fail	Pass	8.84
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.030	0.026	0.83	0.81	Pass	Pass	2.64
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.018	0.011	0.92	0.94	Pass	Pass	0.00
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.032	0.016	0.85	0.80	Fail	Pass	5.44
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.034	0.035	0.83	0.85	Pass	Pass	0.00
B	Haliotis rufescens	Larval Development	48 hours	0.100	0.026	0.050	0.92	0.56	Fail	Fail	39.70
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.047	0.036	0.93	0.91	Pass	Pass	2.03
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.009	0.208	0.99	0.79	Fail	Fail	20.20
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.031	0.115	0.94	0.80	Fail	Fail	15.40

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.008	0.054	0.98	0.86	Fail	Pass	11.49
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.026	0.280	0.92	0.63	Pass	Fail	31.23
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.064	0.040	0.93	0.92	Pass	Pass	0.21
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.025	0.033	0.96	0.94	Pass	Pass	2.58
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.026	0.075	0.93	0.58	Fail	Fail	37.13
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.014	0.031	0.95	0.93	Pass	Pass	1.59
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.087	0.069	0.91	0.90	Pass	Pass	1.41
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.034	0.073	0.93	0.92	Pass	Pass	1.56
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.023	0.047	0.92	0.91	Pass	Pass	1.83
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.023	0.036	0.96	0.92	Pass	Pass	3.51
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.067	0.030	0.92	0.93	Pass	Pass	0.00
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.012	0.040	0.94	0.89	Pass	Pass	5.49
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.024	0.090	0.95	0.93	Pass	Pass	2.16
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.017	0.013	0.98	0.99	Pass	Pass	0.00
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.010	0.029	0.99	0.01	Fail	Fail	98.68
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.031	0.069	0.95	0.94	Pass	Pass	0.73
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.100	0.015	0.90	0.98	Pass	Pass	0.00
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.052	0.056	0.95	0.93	Pass	Pass	2.45
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.110	0.000	0.91	0.00	Fail	Fail	100.00
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.121	0.000	0.77	0.00	Fail	Fail	100.00
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.045	0.081	0.97	0.93	Pass	Pass	4.04
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.025	0.207	0.96	0.45	Fail	Fail	53.23
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.021	0.028	0.98	0.96	Pass	Pass	1.88
A	Haliotis rufescens	Larval Development	48 hours	0.008	0.053	0.101	0.86	0.84	Pass	Pass	2.67
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.024	0.016	0.96	0.94	Pass	Pass	2.29
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.028	0.012	0.96	0.95	Pass	Pass	1.25
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.004	0.018	0.98	0.98	Pass	Pass	0.41
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.019	0.011	0.94	0.97	Pass	Pass	-2.99

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.036	0.015	0.94	0.98	Pass	Pass	-4.69
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.018	0.015	0.97	0.94	Pass	Pass	2.28
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.037	0.057	0.85	0.78	Pass	Pass	7.78
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.027	0.032	0.84	0.88	Pass	Pass	-4.78
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.025	0.067	0.74	0.79	Pass	Pass	-6.23
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.053	0.021	0.90	0.92	Pass	Pass	-1.33
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.056	0.026	0.90	0.90	Pass	Pass	0.07
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.029	0.016	0.93	0.91	Pass	Pass	2.15
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.041	0.023	0.91	0.89	Pass	Pass	1.79
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.024	0.040	0.81	0.81	Pass	Pass	0.25
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.058	0.049	0.84	0.79	Pass	Pass	5.74
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.034	0.029	0.81	0.81	Pass	Pass	-0.25
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.019	0.038	0.86	0.81	Pass	Pass	5.61
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.023	0.039	0.84	0.79	Pass	Pass	5.43
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.025	0.015	0.97	0.96	Pass	Pass	0.21
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.027	0.017	0.95	0.96	Pass	Pass	-1.05
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.019	0.019	0.97	0.98	Pass	Pass	-0.41
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.069	0.023	0.85	0.83	Pass	Pass	1.42
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.046	0.069	0.82	0.82	Pass	Pass	0.73
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.042	0.055	0.83	0.84	Pass	Pass	-1.20
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.019	0.023	0.98	0.94	Pass	Pass	4.09
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.013	0.033	0.97	0.96	Pass	Pass	1.64
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.028	0.055	0.93	0.86	Pass	Pass	7.32
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.027	0.037	0.91	0.93	Pass	Pass	-1.75
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.046	0.051	0.87	0.89	Pass	Pass	-2.13
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.022	0.016	0.94	0.95	Pass	Pass	-1.06
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.011	0.018	0.98	0.98	Pass	Pass	0.00
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.008	0.026	0.96	0.96	Pass	Pass	-0.42

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.023	0.025	0.96	0.95	Pass	Pass	1.66
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.031	0.124	0.91	0.89	Pass	Pass	2.20
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.023	0.120	0.89	0.86	Pass	Pass	2.75
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.054	0.036	0.86	0.86	Pass	Pass	0.70
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.065	0.032	0.80	0.80	Pass	Pass	-0.68
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.029	0.038	0.90	0.88	Pass	Pass	2.01
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.014	0.018	0.83	0.82	Pass	Pass	2.02
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.030	0.016	0.95	0.96	Pass	Pass	-1.48
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.023	0.044	0.96	0.96	Pass	Pass	0.62
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.030	0.009	0.95	0.95	Pass	Pass	-0.85
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.015	0.033	0.94	0.90	Pass	Pass	3.84
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.029	0.022	0.95	0.93	Pass	Pass	2.11
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.012	0.008	0.98	0.98	Pass	Pass	-0.20
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.023	0.015	0.96	0.98	Pass	Pass	-1.46
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.018	0.053	0.94	0.90	Pass	Pass	4.26
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.035	0.066	0.95	0.92	Pass	Pass	3.56
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.044	0.023	0.85	0.87	Pass	Pass	-2.60
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.046	0.018	0.81	0.84	Pass	Pass	-4.36
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.027	0.026	0.96	0.97	Pass	Pass	-1.88
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.011	0.013	0.98	0.97	Pass	Pass	1.02
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.017	0.035	0.87	0.87	Pass	Pass	-0.12
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.062	0.050	0.80	0.78	Pass	Pass	2.49
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.073	0.045	0.78	0.77	Pass	Pass	1.12
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.013	0.019	0.99	0.97	Pass	Pass	1.42
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.009	0.017	0.97	0.98	Pass	Pass	-0.21
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.022	0.019	0.96	0.94	Pass	Pass	1.26
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.034	0.040	0.95	0.91	Pass	Pass	5.03
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.038	0.052	0.94	0.88	Pass	Pass	6.09

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.020	0.019	0.97	0.97	Pass	Pass	0.00
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.034	0.020	0.96	0.96	Pass	Pass	-0.17
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.021	0.027	0.90	0.91	Pass	Pass	-0.66
D	Haliotis rufescens	Larval Development	48 hours	0.005	0.011	0.027	0.98	0.97	Pass	Pass	0.41
D	Haliotis rufescens	Larval Development	48 hours	0.010	0.023	0.033	0.97	0.95	Pass	Pass	1.45
G	Macrocystis pyrifera	Germination	48 hours	0.007	0.035	0.078	0.96	0.87	Pass	Pass	9.87
G	Macrocystis pyrifera	Germination	48 hours	0.007	0.025	0.032	0.94	0.91	Pass	Pass	2.53
G	Macrocystis pyrifera	Germination	48 hours	0.007	0.024	0.035	0.93	0.91	Pass	Pass	2.84
G	Macrocystis pyrifera	Germination	48 hours	0.007	0.013	0.010	0.96	0.95	Pass	Pass	0.71
G	Macrocystis pyrifera	Germination	48 hours	0.007	0.017	0.040	0.96	0.95	Pass	Pass	0.45
G	Macrocystis pyrifera	Germination	48 hours	0.007	0.025	0.077	0.86	0.85	Pass	Pass	1.34
G	Macrocystis pyrifera	Germination	48 hours	0.007	0.050	0.023	0.87	0.85	Pass	Pass	2.15
G	Macrocystis pyrifera	Germination	48 hours	0.007	0.045	0.047	0.91	0.89	Pass	Pass	2.28
G	Macrocystis pyrifera	Germination	48 hours	0.007	0.037	0.036	0.90	0.92	Pass	Pass	-1.22
G	Macrocystis pyrifera	Germination	48 hours	0.007	0.039	0.029	0.94	0.91	Pass	Pass	3.61
E	Macrocystis pyrifera	Germination	48 hours	0.012	0.015	0.044	0.93	0.89	Pass	Pass	4.48
E	Macrocystis pyrifera	Germination	48 hours	0.012	0.022	0.023	0.94	0.93	Pass	Pass	1.48
E	Macrocystis pyrifera	Germination	48 hours	0.012	0.053	0.026	0.91	0.93	Pass	Pass	-2.29
E	Macrocystis pyrifera	Germination	48 hours	0.012	0.069	0.075	0.85	0.85	Pass	Pass	-0.19
D	Macrocystis pyrifera	Germination	48 hours	0.010	0.059	0.050	0.86	0.90	Pass	Pass	-3.94
D	Macrocystis pyrifera	Germination	48 hours	0.010	0.034	0.009	0.94	0.95	Pass	Pass	-0.42
D	Macrocystis pyrifera	Germination	48 hours	0.010	0.034	0.023	0.96	0.96	Pass	Pass	0.00
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.055	0.064	0.89	0.84	Pass	Pass	5.62
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.033	0.040	0.85	0.88	Pass	Pass	-3.29
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.132	0.061	0.81	0.89	Pass	Pass	-9.38
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.043	0.036	0.90	0.89	Pass	Pass	1.77
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.036	0.008	0.94	0.95	Pass	Pass	-0.42
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.050	0.065	0.89	0.88	Pass	Pass	1.35

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.048	0.062	0.94	0.91	Pass	Pass	2.98
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.043	0.081	0.83	0.83	Pass	Pass	0.72
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.047	0.019	0.85	0.87	Pass	Pass	-1.88
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.054	0.051	0.92	0.92	Pass	Pass	-0.65
D	Macrocystis pyrifera	Germination	48 hours	0.010	0.064	0.050	0.86	0.85	Pass	Pass	1.16
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.080	0.075	0.87	0.83	Pass	Pass	4.15
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.040	0.038	0.89	0.91	Pass	Pass	-1.79
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.035	0.018	0.86	0.86	Pass	Pass	-0.47
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.063	0.041	0.89	0.88	Pass	Pass	1.35
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.034	0.063	0.82	0.86	Pass	Pass	-5.39
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.110	0.056	0.76	0.82	Pass	Pass	-7.09
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.060	0.056	0.88	0.94	Pass	Pass	-6.59
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.073	0.057	0.89	0.93	Pass	Pass	-4.49
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.076	0.063	0.88	0.84	Pass	Pass	-0.91
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.024	0.039	0.91	0.93	Pass	Pass	-1.87
D	Macrocystis pyrifera	Germination	48 hours	0.010	0.042	0.061	0.92	0.90	Pass	Pass	2.16
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.051	0.076	0.89	0.85	Pass	Pass	4.05
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.115	0.070	0.78	0.85	Pass	Pass	-8.74
D	Macrocystis pyrifera	Germination	48 hours	0.005	0.100	0.080	0.78	0.74	Pass	Pass	4.64
D	Macrocystis pyrifera	Germination	48 hours	0.010	0.015	0.029	0.98	0.93	Pass	Pass	4.71
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.870	0.586	11.19	11.96	Pass	Pass	-6.81
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.472	0.901	10.73	10.97	Pass	Pass	-2.29
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.438	0.321	12.03	13.11	Pass	Pass	-9.00
D	Macrocystis pyrifera	Growth	48 hours	0.010	0.533	0.636	11.76	11.41	Pass	Pass	2.93
D	Macrocystis pyrifera	Growth	48 hours	0.010	0.813	0.845	14.00	14.00	Pass	Pass	0.00
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.696	0.819	12.30	11.76	Pass	Pass	4.40
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.918	0.330	12.03	12.32	Pass	Pass	-2.45
D	Macrocystis pyrifera	Growth	48 hours	0.010	1.158	0.375	11.66	11.39	Pass	Pass	2.32

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
D	Macrocystis pyrifera	Growth	48 hours	0.005	1.178	1.618	12.52	13.28	Pass	Pass	-6.09
D	Macrocystis pyrifera	Growth	48 hours	0.005	1.144	0.854	12.18	12.82	Pass	Pass	-5.25
D	Macrocystis pyrifera	Growth	48 hours	0.010	0.465	0.518	13.95	13.75	Pass	Pass	1.41
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.699	0.306	13.21	13.68	Pass	Pass	-3.54
D	Macrocystis pyrifera	Growth	48 hours	0.005	1.077	0.308	12.69	13.70	Pass	Pass	-7.95
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.465	0.573	11.27	11.59	Pass	Pass	-2.84
D	Macrocystis pyrifera	Growth	48 hours	0.010	1.002	1.067	14.96	12.69	Fail	Pass	15.13
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.430	0.605	11.17	11.83	Pass	Pass	-5.95
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.670	0.959	12.28	13.09	Pass	Pass	-6.61
D	Macrocystis pyrifera	Growth	48 hours	0.005	1.022	1.547	13.55	12.85	Pass	Pass	5.17
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.568	2.003	11.51	13.48	Pass	Pass	-17.09
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.318	1.053	11.83	12.84	Pass	Pass	-8.52
D	Macrocystis pyrifera	Growth	48 Hours	0.005	0.435	0.586	10.33	11.54	Pass	Pass	-11.67
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.611	1.023	13.68	13.51	Pass	Pass	1.26
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.431	0.868	11.02	12.96	Pass	Pass	-17.63
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.547	1.095	11.64	12.64	Pass	Pass	-8.67
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.447	1.004	10.85	11.93	Pass	Pass	-9.98
D	Macrocystis pyrifera	Growth	48 hours	0.010	1.063	0.540	14.00	14.10	Pass	Pass	-0.70
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.630	0.385	11.91	12.62	Pass	Pass	-5.99
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.864	1.125	12.47	12.57	Pass	Pass	-0.79
D	Macrocystis pyrifera	Growth	48 hours	0.005	0.693	0.900	10.43	11.07	Pass	Pass	-6.13
G	Macrocystis pyrifera	Growth	48 hours	0.007	2.036	2.862	15.08	11.28	Pass	Fail	25.17
G	Macrocystis pyrifera	Growth	48 hours	0.007	0.652	1.572	17.23	17.89	Pass	Pass	-3.84
G	Macrocystis pyrifera	Growth	48 hours	0.007	1.264	1.955	18.11	16.08	Pass	Pass	11.18
G	Macrocystis pyrifera	Growth	48 hours	0.007	1.384	2.422	16.11	15.73	Pass	Pass	2.32
G	Macrocystis pyrifera	Growth	48 hours	0.007	1.231	0.908	16.61	16.25	Pass	Pass	2.18
G	Macrocystis pyrifera	Growth	48 hours	0.007	1.631	1.734	13.75	13.41	Pass	Pass	2.52
G	Macrocystis pyrifera	Growth	48 hours	0.007	0.540	1.118	14.59	13.58	Pass	Pass	6.88

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
G	Macrocystis pyrifera	Growth	48 hours	0.007	2.122	2.143	15.77	14.93	Pass	Pass	5.32
G	Macrocystis pyrifera	Growth	48 hours	0.007	2.241	0.457	16.14	14.66	Pass	Pass	9.14
G	Macrocystis pyrifera	Growth	48 hours	0.007	1.728	1.508	16.38	16.46	Pass	Pass	-0.49
E	Macrocystis pyrifera	Growth	48 hours	0.012	1.205	0.766	15.84	16.08	Pass	Pass	-1.45
E	Macrocystis pyrifera	Growth	48 hours	0.012	1.004	0.936	15.69	15.72	Pass	Pass	-0.14
E	Macrocystis pyrifera	Growth	48 hours	0.012	1.787	0.696	15.44	15.75	Pass	Pass	-1.97
E	Macrocystis pyrifera	Growth	48 hours	0.012	0.536	1.463	14.26	15.14	Pass	Pass	-6.22
I	Daphnia pulex	Survival	48-96 hours	0.110	0.000	0.100	1.00	0.95	Pass	Pass	5.00
I	Daphnia pulex	Survival	48-96 hours	0.110	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	0.110	0.100	0.000	0.95	1.00	Pass	Pass	-5.26
I	Daphnia pulex	Survival	48-96 hours	0.110	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	0.110	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	0.110	0.000	0.116	1.00	0.90	Pass	Pass	10.00
I	Daphnia pulex	Survival	48-96 hours	0.110	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	0.110	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	0.110	0.000	0.000	1.00	0.00	Fail	Fail	100.00
I	Daphnia pulex	Survival	48-96 hours	0.110	0.100	0.192	0.95	0.85	Pass	Fail	10.53
I	Daphnia pulex	Survival	48-96 hours	0.110	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.100	0.000	0.95	1.00	Pass	Pass	-5.26
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.100	0.000	0.95	1.00	Pass	Pass	-5.26
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.100	1.00	0.95	Pass	Pass	5.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.100	0.100	0.95	0.95	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.100	1.00	0.95	Pass	Pass	5.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	1.000	0.000	0.100	1.00	0.95	Pass	Pass	5.00
I	Ceriodaphnia dubia	Survival	48-96 hours	1.000	0.000	0.100	1.00	0.85	Pass	Fail	15.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.020	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.020	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.053	0.100	0.100	0.95	0.75	Pass	Fail	21.05
I	Ceriodaphnia dubia	Survival	48-96 hours	0.125	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.125	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	0.045	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	0.045	0.000	0.100	1.00	0.95	Pass	Pass	5.00
I	Daphnia pulex	Survival	48-96 hours	0.022	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.007	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	0.055	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	0.055	0.000	0.000	1.00	1.00	Pass	Pass	0.00

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Ceriodaphnia dubia	Survival	48-96 hours	0.109	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.063	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.111	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.040	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.056	0.100	0.000	0.95	1.00	Pass	Pass	-5.26
I	Daphnia pulex	Survival	48-96 hours	0.156	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	0.156	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.026	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.156	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.538	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.538	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.538	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.538	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.538	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.538	0.100	0.000	0.95	1.00	Pass	Pass	-5.26
I	Ceriodaphnia dubia	Survival	48-96 hours	0.050	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.900	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.256	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.099	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.099	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.020	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.063	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.063	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.020	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	0.055	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Daphnia pulex	Survival	48-96 hours	0.055	0.100	0.200	0.95	0.90	Pass	Pass	5.26

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Daphnia pulex	Survival	48-96 hours	0.055	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.111	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Ceriodaphnia dubia	Survival	48-96 hours	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.006	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	1.000	0.089	0.110	0.96	0.92	Pass	Pass	4.17
I	Atherinops affinis	Survival	7 days	0.002	0.000	0.089	1.00	0.96	Pass	Pass	4.00
I	Atherinops affinis	Survival	7 days	0.002	0.000	0.089	1.00	0.96	Pass	Pass	4.00
I	Atherinops affinis	Survival	7 days	0.010	0.110	0.089	0.88	0.96	Pass	Pass	-9.09
I	Atherinops affinis	Survival	7 days	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.022	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.002	0.000	0.089	1.00	0.96	Pass	Pass	4.00
I	Atherinops affinis	Survival	7 days	0.002	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.002	0.089	0.000	0.96	1.00	Pass	Pass	-4.17
I	Atherinops affinis	Survival	7 days	0.007	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.007	0.219	0.110	0.84	0.88	Pass	Pass	-4.76
I	Atherinops affinis	Survival	7 days	0.040	0.089	0.000	0.96	1.00	Pass	Pass	-4.17
I	Atherinops affinis	Survival	7 days	0.070	0.089	0.000	0.96	1.00	Pass	Pass	-4.17
I	Atherinops affinis	Survival	7 days	0.070	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.070	0.089	0.000	0.96	1.00	Pass	Pass	-4.17
I	Atherinops affinis	Survival	7 days	0.070	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.007	0.040	0.040	0.96	0.96	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.028	0.110	0.000	0.88	1.00	Pass	Pass	-13.64
I	Atherinops affinis	Survival	7 days	0.007	0.110	0.089	0.92	0.96	Pass	Pass	-4.35
I	Atherinops affinis	Survival	7 days	0.037	0.110	0.089	0.92	0.84	Pass	Pass	8.70
I	Atherinops affinis	Survival	7 days	0.010	0.110	0.110	0.92	0.92	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.010	0.110	0.089	0.92	0.96	Pass	Pass	-4.35

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Atherinops affinis	Survival	7 days	0.010	0.110	0.110	0.92	0.88	Pass	Pass	4.35
I	Atherinops affinis	Survival	7 days	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.015	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.059	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.037	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.003	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.001	0.000	0.179	1.00	0.92	Pass	Pass	8.00
I	Atherinops affinis	Survival	7 days	0.028	0.000	0.089	1.00	0.96	Pass	Pass	4.00
I	Atherinops affinis	Survival	7 days	0.059	0.110	0.089	0.88	0.96	Pass	Pass	-9.09
I	Atherinops affinis	Survival	7 days	0.020	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Atherinops affinis	Survival	7 days	0.010	0.000	0.219	1.00	0.64	Pass	Fail	36.00
I	Atherinops affinis	Survival	7 days	0.002	0.000	0.089	1.00	0.96	Pass	Pass	4.00
I	Atherinops affinis	Survival	7 days	0.015	0.089	0.110	0.96	0.92	Pass	Pass	4.17
I	Atherinops affinis	Survival	7 days	0.012	0.000	0.000	1.00	1.00	Pass	Pass	0.00
D	Atherinops affinis	Survival	7 days	0.010	0.110	0.089	0.92	0.96	Pass	Pass	-4.35
D	Atherinops affinis	Survival	7 days	0.010	0.089	0.000	0.96	1.00	Pass	Pass	-4.17
D	Atherinops affinis	Survival	7 days	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
D	Atherinops affinis	Survival	7 days	0.005	0.089	0.141	0.96	0.80	Pass	Pass	16.67
D	Atherinops affinis	Survival	7 days	0.005	0.000	0.000	1.00	1.00	Pass	Pass	0.00
D	Atherinops affinis	Survival	7 days	0.005	0.179	0.167	0.92	0.84	Pass	Pass	8.70
D	Atherinops affinis	Survival	7 days	0.005	0.089	0.000	0.96	1.00	Pass	Pass	-4.17
D	Atherinops affinis	Survival	7 days	0.005	0.000	0.000	1.00	1.00	Pass	Pass	0.00
D	Atherinops affinis	Survival	7 days	0.010	0.000	0.110	1.00	0.92	Pass	Pass	8.00
D	Atherinops affinis	Survival	7 days	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
D	Atherinops affinis	Survival	7 days	0.010	0.089	0.000	0.96	1.00	Pass	Pass	-4.17
D	Atherinops affinis	Biomass	7 days	0.005	0.179	0.146	1.24	1.19	Pass	Pass	3.56
D	Atherinops affinis	Biomass	7 days	0.010	0.233	0.166	0.99	0.99	Pass	Pass	-0.40

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
D	Atherinops affinis	Biomass	7 days	0.010	0.232	0.115	1.45	1.45	Pass	Pass	0.28
D	Atherinops affinis	Biomass	7 days	0.005	0.243	0.168	1.44	1.51	Pass	Pass	-4.43
D	Atherinops affinis	Biomass	7 days	0.010	0.197	0.236	1.38	1.52	Pass	Pass	-10.43
D	Atherinops affinis	Biomass	7 days	0.005	0.191	0.117	1.23	1.11	Pass	Pass	9.74
D	Atherinops affinis	Biomass	7 days	0.010	0.177	0.228	1.98	1.71	Pass	Pass	13.36
D	Atherinops affinis	Biomass	7 days	0.010	0.244	0.119	1.66	1.65	Pass	Pass	0.72
D	Atherinops affinis	Biomass	7 days	0.005	0.190	0.062	1.23	1.26	Pass	Pass	-2.27
D	Atherinops affinis	Biomass	7 days	0.010	0.162	0.245	1.56	1.38	Pass	Pass	11.31
D	Atherinops affinis	Biomass	7 days	0.005	0.295	0.226	1.71	1.58	Pass	Pass	7.48
I	Atherinops affinis	Biomass	7 days	0.012	0.279	0.229	2.44	2.24	Pass	Pass	8.24
I	Atherinops affinis	Biomass	7 days	0.007	0.151	0.210	1.01	1.11	Pass	Pass	-9.63
I	Atherinops affinis	Biomass	7 days	0.007	0.238	0.263	1.58	1.82	Pass	Pass	-14.70
I	Atherinops affinis	Biomass	7 days	0.006	0.171	0.072	1.76	1.93	Pass	Pass	-9.12
I	Atherinops affinis	Biomass	7 days	0.002	0.109	0.229	1.64	1.51	Pass	Pass	7.68
I	Atherinops affinis	Biomass	7 days	0.022	0.129	0.099	1.82	1.63	Pass	Pass	10.23
I	Atherinops affinis	Biomass	7 days	0.070	0.132	0.131	1.26	1.39	Pass	Pass	-10.30
I	Atherinops affinis	Biomass	7 days	0.040	0.110	0.173	1.26	1.33	Pass	Pass	-5.49
I	Atherinops affinis	Biomass	7 days	0.070	0.107	0.194	1.52	1.66	Pass	Pass	-9.10
I	Atherinops affinis	Biomass	7 days	0.007	0.273	0.220	1.21	1.23	Pass	Pass	-1.42
I	Atherinops affinis	Biomass	7 days	0.010	0.310	0.158	1.21	1.38	Pass	Pass	-14.06
I	Atherinops affinis	Biomass	7 days	0.002	0.129	0.184	1.65	1.57	Pass	Pass	4.86
I	Atherinops affinis	Biomass	7 days	0.002	0.165	0.243	1.70	1.58	Pass	Pass	6.85
I	Atherinops affinis	Biomass	7 days	0.070	0.140	0.106	1.75	1.69	Pass	Pass	3.26
I	Atherinops affinis	Biomass	7 days	0.070	0.103	0.248	1.48	1.94	Pass	Pass	-31.51
I	Atherinops affinis	Biomass	7 days	0.002	0.328	0.091	1.79	1.61	Pass	Pass	10.13
I	Atherinops affinis	Biomass	7 days	0.007	0.245	0.159	1.69	1.68	Pass	Pass	0.69
I	Atherinops affinis	Biomass	7 days	0.002	0.332	0.208	1.98	2.08	Pass	Pass	-4.97
I	Atherinops affinis	Biomass	7 days	0.015	0.163	0.158	1.12	1.09	Pass	Pass	2.57

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Atherinops affinis	Biomass	7 days	0.015	0.224	0.210	1.27	1.12	Pass	Pass	11.50
I	Atherinops affinis	Biomass	7 days	0.010	0.181	0.306	1.10	0.82	Pass	Fail	25.53
I	Atherinops affinis	Biomass	7 days	0.010	0.148	0.234	1.51	1.78	Pass	Pass	-18.14
I	Atherinops affinis	Biomass	7 days	0.010	0.062	0.149	1.58	1.60	Pass	Pass	-1.16
I	Atherinops affinis	Biomass	7 days	0.010	0.177	0.039	1.08	1.16	Pass	Pass	-8.22
I	Atherinops affinis	Biomass	7 days	0.010	0.261	0.217	1.32	1.31	Pass	Pass	0.82
I	Atherinops affinis	Biomass	7 days	0.010	0.167	0.076	1.05	1.05	Pass	Pass	-0.34
I	Atherinops affinis	Biomass	7 days	0.002	0.132	0.196	1.48	1.35	Pass	Pass	8.99
I	Atherinops affinis	Biomass	7 days	0.003	0.270	0.272	1.58	1.79	Pass	Pass	-13.27
I	Atherinops affinis	Biomass	7 days	0.001	0.183	0.242	1.34	1.32	Pass	Pass	1.46
I	Atherinops affinis	Biomass	7 days	0.037	0.110	0.089	0.92	0.84	Pass	Pass	8.70
I	Atherinops affinis	Biomass	7 days	0.037	0.196	0.031	1.42	1.44	Pass	Pass	-1.61
I	Atherinops affinis	Biomass	7 days	0.028	0.209	0.192	1.14	1.21	Pass	Pass	-6.14
I	Atherinops affinis	Biomass	7 days	0.028	0.134	0.185	1.26	1.08	Pass	Pass	14.59
I	Atherinops affinis	Biomass	7 days	1.000	0.094	0.263	1.91	1.63	Fail	Pass	14.68
I	Atherinops affinis	Biomass	7 days	1.000	0.133	0.276	1.08	1.10	Pass	Pass	-1.62
I	Atherinops affinis	Biomass	7 days	0.020	0.119	0.203	1.06	1.11	Pass	Pass	-4.81
I	Atherinops affinis	Biomass	7 days	0.059	0.269	0.158	1.13	1.08	Pass	Pass	3.70
I	Atherinops affinis	Biomass	7 days	0.059	0.191	0.010	1.12	1.01	Pass	Pass	10.14
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.821	2.449	37.20	38.00	Pass	Pass	-2.15
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	12.160	2.201	35.70	39.80	Pass	Pass	-11.48
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	14.480	2.514	40.70	43.10	Pass	Pass	-5.90
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	4.762	5.095	33.30	35.20	Pass	Pass	-5.71
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.331	9.359	28.90	25.60	Pass	Pass	11.42
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.406	4.222	27.70	31.40	Pass	Pass	-13.36
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.357	8.762	25.00	25.90	Pass	Pass	-3.60
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	5.774	1.767	37.30	40.30	Pass	Pass	-8.04
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	4.006	3.498	25.40	28.70	Pass	Pass	-12.99

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H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.885	3.091	29.10	31.00	Pass	Pass	-6.53
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	0.699	2.601	19.40	24.90	Pass	Pass	-28.35
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	6.100	3.994	18.90	22.80	Pass	Pass	-20.63
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	3.941	3.155	29.44	30.20	Pass	Pass	-2.57
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.710	6.633	28.70	28.00	Pass	Pass	2.44
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	6.617	5.658	18.70	21.30	Pass	Pass	-13.90
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	9.832	7.989	17.30	20.60	Pass	Pass	-19.08
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	5.507	6.883	19.10	17.60	Pass	Pass	7.85
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	1.897	2.108	24.60	25.00	Pass	Pass	-1.63
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	3.360	4.502	41.20	42.60	Pass	Pass	-3.40
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	3.665	3.302	40.10	42.70	Pass	Pass	-6.48
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	3.057	7.724	19.30	20.10	Pass	Pass	-4.15
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	3.057	5.442	19.30	21.50	Pass	Pass	-11.40
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	4.095	3.213	27.90	25.90	Pass	Pass	7.17
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	4.095	4.067	27.90	26.90	Pass	Pass	3.58
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	3.273	11.360	34.60	40.50	Pass	Pass	-17.05
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	3.273	6.960	34.60	43.00	Pass	Pass	-24.28
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.573	5.312	28.80	19.00	Pass	Pass	-0.69
I	Ceriodaphnia dubia	Reproduction	6-8 days	0.011	4.012	2.669	16.10	17.30	Pass	Pass	-0.07
I	Ceriodaphnia dubia	Reproduction	6-8 days	0.025	9.705	5.633	23.80	24.80	Pass	Pass	-4.20
I	Ceriodaphnia dubia	Reproduction	6-8 days	0.099	4.577	10.730	23.50	24.40	Pass	Pass	-3.83
I	Ceriodaphnia dubia	Reproduction	6-8 days	0.480	5.653	5.574	21.20	33.20	Pass	Pass	-56.60
I	Ceriodaphnia dubia	Reproduction	6-8 days	0.020	3.048	5.329	16.20	16.20	Pass	Pass	0.00
I	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.583	5.165	22.00	7.70	Fail	Fail	65.00
I	Ceriodaphnia dubia	Reproduction	6-8 days	0.538	5.554	5.493	23.20	26.20	Pass	Pass	-12.93
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	10.410	7.997	32.40	29.20	Fail	Pass	9.88
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.062	1.370	36.50	35.90	Pass	Pass	1.64
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	9.911	7.099	28.70	32.20	Pass	Pass	-12.20

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J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	10.230	5.953	30.80	29.10	Pass	Pass	5.52
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.719	2.627	32.60	33.30	Pass	Pass	-2.15
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.437	4.855	35.00	37.30	Pass	Pass	-6.57
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.917	2.263	28.80	29.30	Pass	Pass	-1.74
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	9.508	3.164	36.80	34.70	Fail	Pass	5.71
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.027	2.627	39.90	36.70	Pass	Pass	8.02
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	10.380	10.740	29.80	30.50	Pass	Pass	-2.35
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.016	10.700	33.40	26.44	Pass	Fail	20.83
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.834	5.827	28.60	28.20	Pass	Pass	1.40
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.706	4.686	30.20	26.20	Pass	Pass	13.25
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.012	5.446	29.90	31.10	Pass	Pass	-4.01
J	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.627	4.473	36.30	37.30	Pass	Pass	-2.75
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.466	4.643	31.30	34.00	Pass	Pass	-8.63
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.658	3.302	42.40	40.30	Fail	Pass	4.95
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	9.180	2.797	24.60	31.40	Pass	Pass	-27.64
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.725	4.448	36.90	39.70	Pass	Pass	-7.59
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.401	1.549	21.70	23.80	Pass	Pass	-9.68
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	11.840	8.647	30.70	31.10	Pass	Pass	-1.30
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	0.427	2.565	36.60	32.00	Pass	Pass	12.57
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.692	13.450	31.50	33.33	Pass	Pass	-5.82
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	1.955	7.975	22.60	21.40	Pass	Pass	5.31
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	10.490	9.034	26.90	26.50	Pass	Pass	1.49
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.563	11.450	31.50	27.60	Pass	Pass	12.38
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	1.283	0.597	36.30	37.70	Pass	Pass	-3.86
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.713	4.248	20.70	24.60	Pass	Pass	-18.84
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	15.030	10.990	29.30	34.50	Pass	Pass	-17.75
K	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.836	10.150	35.50	28.60	Fail	Fail	19.44
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.171	8.954	24.90	27.80	Pass	Pass	-11.65

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.160	12.310	23.00	15.90	Pass	Fail	30.87
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.266	8.478	23.80	18.90	Pass	Fail	20.59
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.348	14.470	19.10	13.20	Pass	Fail	30.89
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	10.150	7.761	26.20	40.30	Pass	Pass	-53.82
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.564	3.688	20.70	19.60	Pass	Pass	5.31
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.990	3.433	23.50	27.30	Pass	Pass	-16.17
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.941	4.077	23.20	25.20	Pass	Pass	-8.62
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.893	9.543	31.80	20.20	Fail	Fail	36.48
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.915	4.473	22.50	23.30	Pass	Pass	-3.56
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.084	6.498	21.80	25.00	Pass	Pass	-14.68
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.915	5.122	22.50	11.30	Fail	Fail	49.78
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.577	7.564	21.50	10.10	Fail	Fail	53.02
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.106	4.377	26.80	28.60	Pass	Pass	-6.72
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.228	5.043	25.00	28.10	Pass	Pass	-12.40
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.028	4.175	23.00	25.90	Pass	Pass	-12.61
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.665	5.038	18.10	18.40	Pass	Pass	-1.66
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	1.814	9.348	29.20	24.60	Pass	Pass	15.75
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.993	8.247	16.30	19.70	Pass	Pass	-20.86
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.577	4.001	21.50	8.30	Fail	Fail	61.40
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.767	6.093	25.90	17.30	Fail	Fail	33.20
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.968	6.529	31.70	12.20	Fail	Fail	61.51
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.962	8.083	25.10	27.00	Pass	Pass	-7.57
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.711	8.488	20.10	9.60	Fail	Fail	52.24
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.564	4.905	20.70	16.50	Pass	Fail	20.29
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.859	12.640	25.50	18.80	Pass	Fail	26.27
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.670	7.997	26.60	14.20	Fail	Fail	46.62
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.808	4.007	29.80	31.50	Pass	Pass	-5.70
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	10.150	12.530	26.20	22.10	Pass	Fail	15.65

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L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.759	11.800	28.50	32.50	Pass	Pass	-14.04
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.348	12.780	19.10	14.30	Pass	Fail	25.13
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.957	4.872	28.20	27.20	Pass	Pass	3.55
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.028	6.100	23.00	6.90	Fail	Fail	70.00
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.807	4.725	28.90	31.90	Pass	Pass	-10.38
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.160	5.322	23.00	24.10	Pass	Pass	-4.78
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.346	3.098	25.00	28.40	Pass	Pass	-13.60
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.028	3.994	23.00	1.80	Fail	Fail	92.17
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.540	5.425	18.60	6.00	Fail	Fail	67.74
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	10.100	4.643	18.60	17.00	Pass	Pass	8.60
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.767	7.212	25.90	16.70	Fail	Fail	35.52
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.914	2.989	28.60	31.40	Pass	Pass	-9.79
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.757	5.514	31.10	32.20	Pass	Pass	-3.54
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.917	7.734	22.20	23.60	Pass	Pass	-6.31
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	9.534	6.332	26.00	13.90	Fail	Fail	46.54
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.968	4.962	31.70	16.20	Fail	Fail	48.90
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.957	8.270	28.20	16.80	Fail	Fail	40.43
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.036	1.792	16.20	1.10	Fail	Fail	93.21
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.710	4.158	27.70	17.80	Fail	Fail	35.74
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.205	3.627	24.50	28.60	Pass	Pass	-16.73
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.977	9.429	23.70	25.30	Pass	Pass	-6.75
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.447	8.690	30.00	22.20	Fail	Fail	26.00
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.967	5.259	22.20	19.90	Pass	Pass	10.36
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	1.814	7.484	29.20	24.30	Fail	Pass	16.78
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.697	3.814	26.20	30.10	Pass	Pass	-14.89
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.453	5.797	17.80	30.60	Pass	Pass	-71.91
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	1.814	4.028	29.20	8.00	Fail	Fail	72.60
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.453	9.370	17.80	20.70	Pass	Pass	-16.29

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L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.710	5.270	27.70	16.03	Fail	Fail	35.02
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	11.300	0.000	19.60	0.00	Fail	Fail	100.00
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.915	7.930	22.50	20.00	Pass	Pass	11.11
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.915	5.169	22.50	22.50	Pass	Pass	0.00
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.985	9.043	24.40	15.00	Fail	Fail	38.52
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.244	3.199	18.10	20.30	Pass	Pass	-12.15
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.915	5.061	22.50	11.50	Fail	Fail	48.89
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.866	1.581	21.90	0.50	Fail	Fail	97.72
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.564	10.600	20.70	17.30	Pass	Fail	16.43
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	10.930	7.633	23.80	21.40	Pass	Pass	10.08
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.084	4.546	21.80	29.00	Pass	Pass	-33.03
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.348	11.970	19.10	10.20	Fail	Fail	46.60
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.859	9.914	25.50	21.50	Pass	Fail	15.69
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.272	7.569	21.00	21.20	Pass	Pass	-0.95
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.711	6.233	20.10	20.80	Pass	Pass	-3.48
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	1.506	3.921	27.60	23.60	Fail	Pass	14.49
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	10.100	4.062	18.60	28.50	Pass	Pass	-53.23
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.088	8.695	23.70	23.40	Pass	Pass	1.27
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.084	4.296	21.80	24.30	Pass	Pass	-11.47
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	9.534	9.068	26.00	14.70	Fail	Fail	43.46
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.719	7.651	22.40	30.90	Pass	Pass	-37.95
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.246	4.508	17.50	27.10	Pass	Pass	-54.86
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.915	3.843	22.50	20.10	Pass	Pass	10.67
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.915	8.110	22.50	18.00	Pass	Fail	20.00
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.198	5.685	20.90	28.90	Pass	Pass	-38.28
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	9.250	7.689	25.00	27.30	Pass	Pass	-9.20
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.496	3.748	27.00	30.60	Pass	Pass	-13.33
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.797	8.206	23.60	14.70	Fail	Fail	37.71

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.485	2.961	25.50	19.90	Fail	Fail	21.96
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	9.018	8.548	23.00	21.20	Pass	Pass	7.83
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.897	7.056	24.40	16.30	Fail	Fail	33.20
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.160	7.203	23.00	8.10	Fail	Fail	64.78
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	1.814	6.446	29.20	14.00	Fail	Fail	52.05
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.570	0.000	21.50	0.00	Fail	Fail	100.00
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	11.630	5.249	17.00	26.00	Pass	Pass	-52.94
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	9.784	6.502	17.80	27.50	Pass	Pass	-54.49
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.570	0.000	21.50	0.00	Fail	Fail	100.00
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.262	5.371	25.60	25.20	Pass	Pass	1.56
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.866	8.698	21.90	5.90	Fail	Fail	73.06
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	1.814	5.417	29.20	19.70	Fail	Fail	32.53
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	1.814	5.854	29.20	17.60	Fail	Fail	39.73
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.346	7.634	23.60	19.50	Pass	Fail	17.37
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.932	11.360	23.00	28.30	Pass	Pass	-23.04
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	11.300	7.087	19.60	11.00	Fail	Fail	43.88
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.098	3.695	23.60	26.10	Pass	Pass	-10.59
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.312	10.320	27.70	27.80	Pass	Pass	-0.36
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.095	8.042	23.10	25.00	Pass	Pass	-8.23
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.767	6.110	25.90	12.00	Fail	Fail	53.67
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.011	3.464	23.00	31.00	Pass	Pass	-34.78
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.473	6.286	23.30	28.80	Pass	Pass	-23.61
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	2.710	3.596	27.70	19.60	Fail	Fail	29.24
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.475	2.251	20.40	33.80	Pass	Pass	-65.69
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.165	7.024	34.70	30.00	Fail	Pass	13.54
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.262	9.899	25.60	25.00	Pass	Pass	2.34
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	10.080	3.026	26.70	27.40	Pass	Pass	-2.62
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	8.925	4.686	25.10	27.20	Pass	Pass	-8.37

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.466	9.496	21.90	21.20	Pass	Pass	3.20
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	9.879	6.100	20.60	25.90	Pass	Pass	-25.73
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.581	3.048	26.10	26.80	Pass	Pass	-2.68
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.064	4.143	22.90	32.50	Pass	Pass	-41.92
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.573	3.536	24.10	28.50	Pass	Pass	-18.26
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.904	7.734	24.60	17.40	Fail	Fail	29.27
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	4.971	5.322	26.40	28.90	Pass	Pass	-9.47
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.498	3.683	26.30	29.70	Pass	Pass	-12.93
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	7.857	5.877	24.20	23.10	Pass	Pass	4.55
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.339	9.615	26.20	25.70	Pass	Pass	1.91
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.502	2.224	25.60	27.50	Pass	Pass	-7.42
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.339	8.744	26.20	27.70	Pass	Pass	-5.73
L	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.339	4.739	26.20	28.30	Pass	Pass	-8.02
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	3.795	2.635	30.80	35.50	Pass	Pass	-15.26
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.936	2.183	41.20	39.10	Pass	Pass	5.10
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.055	2.251	21.00	25.20	Pass	Pass	-20.00
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	3.665	3.302	40.10	42.70	Pass	Pass	-6.48
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	3.665	4.502	40.10	42.60	Pass	Pass	-6.23
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.300	1.595	30.20	34.90	Pass	Pass	-15.56
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.300	1.853	30.20	35.10	Pass	Pass	-16.23
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.675	1.841	26.40	26.50	Pass	Pass	-0.38
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.675	1.947	26.40	27.30	Pass	Pass	-3.41
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.171	0.945	25.40	27.60	Pass	Pass	-8.66
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	4.648	2.616	28.40	26.80	Pass	Pass	5.63
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	4.648	2.486	28.40	28.20	Pass	Pass	0.70
H	Ceriodaphnia dubia	Reproduction	6-8 days	0.125	2.171	2.667	25.40	26.00	Pass	Pass	-2.36
I	Pimephales promelas	Survival	48-96 hours	0.110	0.000	0.050	1.00	0.98	Pass	Pass	2.50
I	Oncorhynchus mykiss	Survival	48-96 hours	0.110	0.000	0.000	1.00	1.00	Pass	Pass	0.00

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Pimephales promelas	Survival	48-96 hours	0.110	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.110	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.110	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Oncorhynchus mykiss	Survival	48-96 hours	0.110	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.096	0.082	0.93	0.90	Pass	Pass	2.70
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.050	1.00	0.98	Pass	Pass	2.50
I	Pimephales promelas	Survival	48-96 hours	1.000	0.050	0.058	0.98	0.95	Pass	Pass	2.56
I	Pimephales promelas	Survival	48-96 hours	1.000	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.100	0.100	0.95	0.95	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.050	0.116	0.98	0.90	Pass	Pass	7.69
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.100	1.00	0.95	Pass	Pass	5.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	48-96 hours	1.000	0.050	0.096	0.93	0.93	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Pimephales promelas	Survival	48-96 hours	1.000	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.050	1.00	0.98	Pass	Pass	2.50
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.082	1.00	0.90	Pass	Pass	10.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.050	0.096	0.98	0.93	Pass	Pass	5.13
I	Pimephales promelas	Survival	48-96 hours	0.020	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.020	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Menidia beryllina	Survival	48-96 hours	1.000	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Menidia beryllina	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.053	0.100	0.050	0.95	0.98	Pass	Pass	-2.63
I	Pimephales promelas	Survival	48-96 hours	0.063	0.100	0.141	0.95	0.90	Pass	Pass	5.26
I	Pimephales promelas	Survival	48-96 hours	0.040	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	48-96 hours	0.026	0.000	0.058	1.00	0.95	Pass	Pass	5.00
I	Pimephales promelas	Survival	48-96 hours	0.156	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	48-96 hours	0.042	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.900	0.058	0.050	0.95	0.98	Pass	Pass	-2.63
I	Pimephales promelas	Survival	48-96 hours	0.256	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.021	0.100	0.058	0.95	0.95	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.050	1.00	0.98	Pass	Pass	2.50
I	Pimephales promelas	Survival	48-96 hours	1.000	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.063	0.100	0.050	0.95	0.98	Pass	Pass	-2.63
I	Pimephales promelas	Survival	48-96 hours	0.020	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Oncorhynchus mykiss	Survival	48-96 hours	0.111	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.111	0.100	0.082	0.95	0.90	Pass	Pass	5.26
I	Pimephales promelas	Survival	48-96 hours	0.022	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	48-96 hours	0.010	0.058	0.050	0.95	0.98	Pass	Pass	-2.63
D	Atherinops affinis	Survival	48-96 hours	0.010	0.058	0.000	0.95	1.00	Pass	Pass	-5.26
D	Atherinops affinis	Survival	48-96 hours	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
D	Atherinops affinis	Survival	48-96 hours	0.010	0.050	0.000	0.98	1.00	Pass	Pass	-2.56

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
D	Atherinops affinis	Survival	48-96 hours	0.010	0.141	0.050	0.90	0.98	Pass	Pass	-8.33
D	Atherinops affinis	Survival	48-96 hours	0.010	0.000	0.050	1.00	0.98	Pass	Pass	2.50
D	Atherinops affinis	Survival	48-96 hours	0.010	0.058	0.000	0.95	1.00	Pass	Pass	-5.26
D	Atherinops affinis	Survival	48-96 hours	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
D	Atherinops affinis	Survival	48-96 hours	0.010	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
D	Atherinops affinis	Survival	48-96 hours	0.010	0.000	0.058	1.00	0.95	Pass	Pass	5.00
D	Atherinops affinis	Survival	48-96 hours	0.010	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
D	Atherinops affinis	Survival	48-96 hours	0.010	0.000	0.050	1.00	0.98	Pass	Pass	2.50
D	Atherinops affinis	Survival	48-96 hours	0.010	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
D	Atherinops affinis	Survival	48-96 hours	0.010	0.050	0.050	0.98	0.98	Pass	Pass	0.00
D	Atherinops affinis	Survival	48-96 hours	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
D	Atherinops affinis	Survival	48-96 hours	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.010	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	48-96 hours	0.021	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	48-96 hours	0.042	0.000	0.050	1.00	0.98	Pass	Pass	2.50
I	Pimephales promelas	Survival	48-96 hours	0.156	0.050	0.058	0.98	0.95	Pass	Pass	2.56
I	Pimephales promelas	Survival	48-96 hours	0.040	0.096	0.058	0.93	0.95	Pass	Pass	-2.70
I	Pimephales promelas	Survival	48-96 hours	0.109	0.000	0.100	1.00	0.95	Pass	Pass	5.00
I	Pimephales promelas	Survival	48-96 hours	0.063	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	48-96 hours	0.111	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.192	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	48-96 hours	0.026	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.156	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.156	0.050	0.058	0.98	0.95	Pass	Pass	2.56
I	Pimephales promelas	Survival	48-96 hours	0.244	0.000	0.096	1.00	0.93	Pass	Pass	7.50
I	Pimephales promelas	Survival	48-96 hours	0.050	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	48-96 hours	0.109	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.040	0.050	0.058	0.98	0.95	Pass	Pass	2.56

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Pimephales promelas	Survival	48-96 hours	0.056	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.052	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	1.000	0.000	0.050	1.00	0.98	Pass	Pass	2.50
I	Pimephales promelas	Survival	48-96 hours	0.021	0.000	0.141	1.00	0.90	Pass	Fail	10.00
I	Pimephales promelas	Survival	48-96 hours	0.021	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.066	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.092	0.082	0.050	0.90	0.98	Pass	Pass	-8.33
I	Pimephales promelas	Survival	48-96 hours	0.990	0.000	0.050	1.00	0.98	Pass	Pass	2.50
I	Pimephales promelas	Survival	48-96 hours	0.125	0.050	0.058	0.98	0.95	Pass	Pass	2.56
I	Pimephales promelas	Survival	48-96 hours	0.230	0.000	0.050	1.00	0.98	Pass	Pass	2.50
I	Pimephales promelas	Survival	48-96 hours	0.125	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.057	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	48-96 hours	0.057	0.000	0.000	1.00	1.00	Pass	Pass	0.00
C	Selenastrum capricornutum	Growth	96 hours	1.000	42600.000	44500.000	1070000.00	1450000.00	Pass	Pass	-35.45
C	Selenastrum capricornutum	Growth	96 hours	1.000	17200.000	38100.000	1220000.00	728000.00	Fail	Fail	40.14
C	Selenastrum capricornutum	Growth	96 hours	1.000	48300.000	52200.000	1220000.00	799000.00	Fail	Fail	34.92
C	Selenastrum capricornutum	Growth	96 hours	1.000	18700.000	23900.000	1760000.00	981000.00	Fail	Fail	44.29
C	Selenastrum capricornutum	Growth	96 hours	1.000	39500.000	17700.000	1190000.00	439000.00	Fail	Fail	63.14
C	Selenastrum capricornutum	Growth	96 hours	1.000	30700.000	26000.000	1440000.00	422000.00	Fail	Fail	70.76
C	Selenastrum capricornutum	Growth	96 hours	1.000	30100.000	33900.000	1030000.00	110000.00	Fail	Fail	89.37
C	Selenastrum capricornutum	Growth	96 hours	1.000	40100.000	30800.000	1090000.00	589000.00	Fail	Fail	45.84
C	Selenastrum capricornutum	Growth	96 hours	1.000	42600.000	28700.000	1470000.00	562000.00	Fail	Fail	61.76
C	Selenastrum capricornutum	Growth	96 hours	1.000	36000.000	53000.000	1460000.00	662000.00	Fail	Fail	54.75
C	Selenastrum capricornutum	Growth	96 hours	1.000	41300.000	35700.000	1060000.00	587000.00	Fail	Fail	44.64
C	Selenastrum capricornutum	Growth	96 hours	1.000	19300.000	5290.000	1110000.00	146000.00	Fail	Fail	86.89
C	Selenastrum capricornutum	Growth	96 hours	1.000	26700.000	45400.000	1250000.00	616000.00	Fail	Fail	50.78
C	Selenastrum capricornutum	Growth	96 hours	1.000	17500.000	33900.000	1090000.00	814000.00	Fail	Fail	25.65
C	Selenastrum capricornutum	Growth	96 hours	1.000	21900.000	21800.000	1430000.00	588000.00	Fail	Fail	59.01

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C	Selenastrum capricornutum	Growth	96 hours	1.000	41500.000	50500.000	1360000.00	796000.00	Fail	Fail	41.36
C	Selenastrum capricornutum	Growth	96 hours	1.000	53100.000	49000.000	1420000.00	787000.00	Fail	Fail	44.53
C	Selenastrum capricornutum	Growth	96 hours	1.000	102000.000	20200.000	1360000.00	413000.00	Fail	Fail	69.59
C	Selenastrum capricornutum	Growth	96 hours	1.000	28100.000	76300.000	1050000.00	1350000.00	Pass	Pass	-28.26
C	Selenastrum capricornutum	Growth	96 hours	1.000	86500.000	173000.000	1420000.00	2200000.00	Pass	Pass	-54.88
C	Selenastrum capricornutum	Growth	96 hours	1.000	68300.000	54800.000	1240000.00	1250000.00	Pass	Pass	-0.71
C	Selenastrum capricornutum	Growth	96 hours	1.000	31400.000	24500.000	1370000.00	1190000.00	Fail	Pass	12.68
C	Selenastrum capricornutum	Growth	96 hours	1.000	54300.000	37400.000	1120000.00	1110000.00	Pass	Pass	0.82
C	Selenastrum capricornutum	Growth	96 hours	1.000	77900.000	51200.000	1150000.00	785000.00	Fail	Fail	31.53
C	Selenastrum capricornutum	Growth	96 hours	1.000	80900.000	55100.000	1610000.00	1860000.00	Pass	Pass	-15.41
C	Selenastrum capricornutum	Growth	96 hours	1.000	26500.000	43100.000	1170000.00	699000.00	Fail	Fail	40.03
C	Selenastrum capricornutum	Growth	96 hours	1.000	82200.000	40800.000	1120000.00	603000.00	Fail	Fail	46.02
C	Selenastrum capricornutum	Growth	96 hours	1.000	5620.000	20500.000	1020000.00	599000.00	Fail	Fail	41.19
C	Selenastrum capricornutum	Growth	96 hours	1.000	63500.000	35200.000	1300000.00	594000.00	Fail	Fail	54.49
C	Selenastrum capricornutum	Growth	96 hours	1.000	52300.000	20500.000	1270000.00	391000.00	Fail	Fail	69.32
H	Selenastrum capricornutum	Growth	96 hours	0.125	963200.000	2800000.000	17130000.00	13120000.00	Pass	Fail	23.39
H	Selenastrum capricornutum	Growth	96 hours	0.125	1737000.000	2879000.000	17510000.00	18810000.00	Pass	Pass	-7.37
H	Selenastrum capricornutum	Growth	96 hours	0.125	1737000.000	1546000.000	17510000.00	19490000.00	Pass	Pass	-11.29
H	Selenastrum capricornutum	Growth	96 hours	0.125	1848000.000	1255000.000	21040000.00	21220000.00	Pass	Pass	-0.84
H	Selenastrum capricornutum	Growth	96 hours	0.125	2307000.000	2776000.000	19510000.00	24040000.00	Pass	Pass	-23.22
H	Selenastrum capricornutum	Growth	96 hours	0.125	1800000.000	1027000.000	11520000.00	12790000.00	Pass	Pass	-11.01
H	Selenastrum capricornutum	Growth	96 hours	0.125	3303000.000	676000.000	19140000.00	20020000.00	Pass	Pass	-4.59
H	Selenastrum capricornutum	Growth	96 hours	0.125	3303000.000	2903000.000	19140000.00	16590000.00	Pass	Pass	13.34
H	Selenastrum capricornutum	Growth	96 hours	0.125	975500.000	2216000.000	24690000.00	30180000.00	Pass	Pass	-22.23
H	Selenastrum capricornutum	Growth	96 hours	0.125	3055000.000	2539000.000	32590000.00	35040000.00	Pass	Pass	-7.52
H	Selenastrum capricornutum	Growth	96 hours	0.125	2228000.000	4244000.000	25230000.00	30130000.00	Pass	Pass	-19.45
H	Selenastrum capricornutum	Growth	96 hours	0.125	1844000.000	2180000.000	20980000.00	25250000.00	Pass	Pass	-20.35
H	Selenastrum capricornutum	Growth	96 hours	0.125	108400.000	59770.000	3136000.00	4872000.00	Pass	Pass	-55.34

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H	Selenastrum capricornutum	Growth	96 hours	0.125	34080.000	386200.000	1807000.00	6819000.00	Pass	Pass	-277.38
H	Pimephales promelas	Survival	7 days	0.125	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
H	Pimephales promelas	Survival	7 days	0.125	0.050	0.050	0.93	0.98	Pass	Pass	-5.41
H	Pimephales promelas	Survival	7 days	0.125	0.050	0.050	0.98	0.95	Pass	Pass	2.56
H	Pimephales promelas	Survival	7 days	0.125	0.000	0.050	1.00	0.98	Pass	Pass	2.50
H	Pimephales promelas	Survival	7 days	0.125	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
H	Pimephales promelas	Survival	7 days	0.125	0.000	0.000	1.00	1.00	Pass	Pass	0.00
H	Pimephales promelas	Survival	7 days	0.125	0.000	0.000	1.00	1.00	Pass	Pass	0.00
H	Pimephales promelas	Survival	7 days	0.125	0.100	0.000	0.95	1.00	Pass	Pass	-5.26
H	Pimephales promelas	Survival	7 days	0.125	0.000	0.050	1.00	0.98	Pass	Pass	2.50
H	Pimephales promelas	Survival	7 days	0.125	0.000	0.050	1.00	0.98	Pass	Pass	2.50
H	Pimephales promelas	Survival	7 days	0.125	0.100	0.150	0.95	0.88	Pass	Pass	7.89
H	Pimephales promelas	Survival	7 days	0.125	0.000	0.000	1.00	1.00	Pass	Pass	0.00
H	Pimephales promelas	Survival	7 days	0.125	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	7 days	0.011	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.017	0.100	0.050	0.95	0.98	Pass	Pass	-2.63
I	Pimephales promelas	Survival	7 days	0.480	0.000	0.058	1.00	0.95	Pass	Pass	5.00
I	Pimephales promelas	Survival	7 days	0.020	0.100	0.050	0.95	0.98	Pass	Pass	-2.63
I	Pimephales promelas	Survival	7 days	1.000	0.058	0.100	0.95	0.95	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.028	0.000	0.089	1.00	0.96	Pass	Pass	4.00
I	Pimephales promelas	Survival	7 days	0.250	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.250	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.250	0.082	0.058	0.90	0.95	Pass	Pass	-5.56
I	Pimephales promelas	Survival	7 days	0.250	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.250	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	7 days	0.250	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	7 days	0.250	0.082	0.050	0.90	0.98	Pass	Pass	-8.33
I	Pimephales promelas	Survival	7 days	0.024	0.096	0.000	0.93	1.00	Pass	Pass	-8.11

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I	Pimephales promelas	Survival	7 days	0.024	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.100	0.000	0.100	1.00	0.95	Pass	Pass	5.00
I	Pimephales promelas	Survival	7 days	0.016	0.050	0.096	0.98	0.93	Pass	Pass	5.13
I	Pimephales promelas	Survival	7 days	0.016	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.016	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.016	0.050	0.100	0.98	0.95	Pass	Pass	2.56
I	Pimephales promelas	Survival	7 days	0.880	0.000	0.050	1.00	0.98	Pass	Pass	2.50
I	Pimephales promelas	Survival	7 days	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.064	0.058	0.000	0.95	1.00	Pass	Pass	-5.26
I	Pimephales promelas	Survival	7 days	0.024	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.024	0.082	0.206	0.90	0.68	Pass	Fail	25.00
I	Pimephales promelas	Survival	7 days	0.024	0.058	0.050	0.95	0.98	Pass	Pass	-2.63
I	Pimephales promelas	Survival	7 days	0.880	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
I	Pimephales promelas	Survival	7 days	0.015	0.158	0.000	0.95	1.00	Pass	Pass	-5.26
I	Pimephales promelas	Survival	7 days	0.015	0.158	0.158	0.95	0.95	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.015	0.050	0.065	0.98	0.75	Fail	Fail	23.08
I	Pimephales promelas	Survival	7 days	0.025	0.200	0.300	0.90	0.85	Pass	Pass	5.56
I	Pimephales promelas	Survival	7 days	0.025	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.025	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.042	0.000	0.050	1.00	0.98	Pass	Pass	2.50
I	Pimephales promelas	Survival	7 days	0.030	0.141	0.082	0.90	0.80	Pass	Pass	11.11
I	Pimephales promelas	Survival	7 days	0.030	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.025	0.000	0.050	1.00	0.88	Pass	Pass	12.50
I	Pimephales promelas	Survival	7 days	0.025	0.000	0.050	1.00	0.98	Pass	Pass	2.50
I	Pimephales promelas	Survival	7 days	0.026	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.087	0.050	0.141	0.98	0.90	Pass	Pass	7.69
I	Pimephales promelas	Survival	7 days	0.087	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Pimephales promelas	Survival	7 days	0.005	0.000	0.050	1.00	0.98	Pass	Pass	2.50

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Pimephales promelas	Survival	7 days	0.005	0.100	0.171	0.85	0.83	Pass	Pass	2.94
J	Pimephales promelas	Survival	7 days	1.000	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.050	1.00	0.98	Pass	Pass	2.50
J	Pimephales promelas	Survival	7 days	1.000	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.050	1.00	0.98	Pass	Pass	2.50
J	Pimephales promelas	Survival	7 days	1.000	0.050	0.096	0.03	0.05	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.050	0.050	0.98	0.98	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.058	0.058	0.95	0.95	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.050	0.050	0.98	0.98	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.050	1.00	0.98	Pass	Pass	2.50
J	Pimephales promelas	Survival	7 days	1.000	0.058	0.050	0.95	0.98	Pass	Pass	-2.63
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.050	1.00	0.98	Pass	Pass	2.50
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.050	0.050	0.98	0.98	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
J	Pimephales promelas	Survival	7 days	1.000	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.050	1.00	0.98	Pass	Pass	2.50
J	Pimephales promelas	Survival	7 days	1.000	0.050	0.050	0.98	0.98	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
J	Pimephales promelas	Survival	7 days	1.000	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
J	Pimephales promelas	Survival	7 days	1.000	0.000	0.050	1.00	0.98	Pass	Pass	2.50

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
H	Pimephales promelas	Biomass	7 days	0.125	0.074	0.095	1.03	1.16	Pass	Pass	-12.86
H	Pimephales promelas	Biomass	7 days	0.125	0.092	0.045	0.88	0.95	Pass	Pass	-8.70
H	Pimephales promelas	Biomass	7 days	0.125	0.018	0.052	0.92	0.91	Pass	Pass	1.58
H	Pimephales promelas	Biomass	7 days	0.125	0.081	0.150	1.43	1.45	Pass	Pass	-1.30
H	Pimephales promelas	Biomass	7 days	0.125	0.143	0.110	0.92	0.99	Pass	Pass	-7.89
H	Pimephales promelas	Biomass	7 days	0.125	0.057	0.051	0.86	0.85	Pass	Pass	1.22
H	Pimephales promelas	Biomass	7 days	0.125	0.044	0.113	1.18	1.16	Pass	Pass	1.53
H	Pimephales promelas	Biomass	7 days	0.125	0.135	0.059	0.84	0.81	Pass	Pass	2.98
H	Pimephales promelas	Biomass	7 days	0.125	0.035	0.051	1.03	0.96	Pass	Pass	7.02
H	Pimephales promelas	Biomass	7 days	0.125	0.077	0.034	0.88	0.94	Pass	Pass	-0.07
H	Pimephales promelas	Biomass	7 days	0.125	0.074	0.075	1.11	1.15	Pass	Pass	-4.06
H	Pimephales promelas	Biomass	7 days	0.125	0.076	0.062	1.10	1.06	Pass	Pass	3.19
H	Pimephales promelas	Biomass	7 days	0.125	0.079	0.099	0.88	0.85	Pass	Pass	3.57
I	Pimephales promelas	Biomass	7 days	0.011	0.044	0.041	0.55	0.51	Pass	Pass	7.15
I	Pimephales promelas	Biomass	7 days	0.017	0.040	0.121	0.52	0.62	Pass	Pass	-20.33
I	Pimephales promelas	Biomass	7 days	0.480	0.086	0.034	0.51	0.53	Pass	Pass	-5.89
I	Pimephales promelas	Biomass	7 days	0.020	0.019	0.041	0.63	0.61	Pass	Pass	3.66
I	Pimephales promelas	Biomass	7 days	1.000	0.052	0.054	0.47	0.49	Pass	Pass	-2.43
I	Pimephales promelas	Biomass	7 days	0.028	0.179	0.160	2.16	2.07	Pass	Pass	17.54
I	Pimephales promelas	Biomass	7 days	0.250	0.110	0.100	0.56	0.73	Pass	Pass	-30.02
I	Pimephales promelas	Biomass	7 days	0.250	0.034	0.052	0.74	0.78	Pass	Pass	-6.39
I	Pimephales promelas	Biomass	7 days	0.250	0.026	0.039	0.50	0.54	Pass	Pass	-14.01
I	Pimephales promelas	Biomass	7 days	0.250	0.107	0.047	0.45	0.41	Pass	Pass	9.06
I	Pimephales promelas	Biomass	7 days	0.250	0.022	0.036	0.36	0.38	Pass	Pass	-5.25
I	Pimephales promelas	Biomass	7 days	0.250	0.028	0.067	0.69	0.75	Pass	Pass	-8.76
I	Pimephales promelas	Biomass	7 days	0.250	0.078	0.072	0.72	0.83	Pass	Pass	-15.25
I	Pimephales promelas	Biomass	7 days	0.024	0.023	0.028	0.58	0.58	Pass	Pass	-0.73
I	Pimephales promelas	Biomass	7 days	0.024	0.115	0.104	0.72	0.73	Pass	Pass	-1.60

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Pimephales promelas	Biomass	7 days	0.100	0.052	0.052	0.50	0.45	Pass	Pass	11.69
I	Pimephales promelas	Biomass	7 days	0.016	0.079	0.080	1.02	0.91	Pass	Pass	11.26
I	Pimephales promelas	Biomass	7 days	0.016	0.057	0.045	0.54	0.55	Pass	Pass	-1.75
I	Pimephales promelas	Biomass	7 days	0.016	0.061	0.044	0.89	0.88	Pass	Pass	0.90
I	Pimephales promelas	Biomass	7 days	0.016	0.082	0.047	0.73	0.73	Pass	Pass	-1.07
I	Pimephales promelas	Biomass	7 days	0.880	0.015	0.023	0.49	0.52	Pass	Pass	-6.36
I	Pimephales promelas	Biomass	7 days	1.000	0.050	0.030	0.45	0.44	Pass	Pass	1.34
I	Pimephales promelas	Biomass	7 days	0.064	0.040	0.050	0.53	0.51	Pass	Pass	3.60
I	Pimephales promelas	Biomass	7 days	0.024	0.034	0.027	0.44	0.38	Pass	Pass	13.68
I	Pimephales promelas	Biomass	7 days	0.024	0.035	0.055	0.28	0.23	Pass	Fail	17.40
I	Pimephales promelas	Biomass	7 days	0.024	0.030	0.026	0.55	0.49	Pass	Pass	11.29
I	Pimephales promelas	Biomass	7 days	0.880	0.027	0.029	0.56	0.55	Pass	Pass	2.18
I	Pimephales promelas	Biomass	7 days	0.015	0.194	0.165	1.07	1.10	Pass	Pass	-3.10
I	Pimephales promelas	Biomass	7 days	0.015	0.124	0.077	0.56	0.51	Pass	Pass	7.73
I	Pimephales promelas	Biomass	7 days	0.015	0.046	0.089	0.58	0.51	Pass	Pass	11.75
I	Pimephales promelas	Biomass	7 days	0.025	0.134	0.130	0.55	0.47	Pass	Fail	14.79
I	Pimephales promelas	Biomass	7 days	0.025	0.116	0.064	0.63	0.64	Pass	Pass	-1.10
I	Pimephales promelas	Biomass	7 days	0.025	0.033	0.015	0.45	0.38	Pass	Pass	16.38
I	Pimephales promelas	Biomass	7 days	0.042	0.110	0.053	0.75	0.63	Pass	Pass	16.12
I	Pimephales promelas	Biomass	7 days	0.030	0.035	0.036	0.52	0.50	Pass	Pass	3.70
I	Pimephales promelas	Biomass	7 days	0.030	0.062	0.030	0.56	0.56	Pass	Pass	-0.63
I	Pimephales promelas	Biomass	7 days	0.025	0.040	0.074	0.63	0.57	Pass	Pass	9.08
I	Pimephales promelas	Biomass	7 days	0.025	0.043	0.019	0.67	0.65	Pass	Pass	2.72
I	Pimephales promelas	Biomass	7 days	0.026	0.052	0.048	0.56	0.56	Pass	Pass	0.75
I	Pimephales promelas	Biomass	7 days	0.087	0.017	0.079	0.52	0.47	Pass	Pass	9.79
I	Pimephales promelas	Biomass	7 days	0.087	0.012	0.008	0.38	0.37	Pass	Pass	1.40
I	Pimephales promelas	Biomass	7 days	0.005	0.158	0.035	0.64	0.58	Pass	Pass	9.87
I	Pimephales promelas	Biomass	7 days	0.005	0.053	0.053	0.31	0.25	Pass	Fail	18.83

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
J	Pimephales promelas	Biomass	7 days	1.000	0.061	0.025	0.66	0.71	Pass	Pass	-7.52
J	Pimephales promelas	Biomass	7 days	1.000	0.067	0.047	0.65	0.59	Pass	Pass	10.22
J	Pimephales promelas	Biomass	7 days	1.000	0.061	0.027	0.66	0.68	Pass	Pass	-2.71
J	Pimephales promelas	Biomass	7 days	1.000	0.011	0.025	0.63	0.66	Pass	Pass	-5.31
J	Pimephales promelas	Biomass	7 days	1.000	0.097	0.039	0.61	0.57	Pass	Pass	6.17
J	Pimephales promelas	Biomass	7 days	1.000	0.080	0.074	0.68	0.64	Pass	Pass	5.33
J	Pimephales promelas	Biomass	7 days	1.000	0.063	0.096	0.69	0.67	Pass	Pass	2.67
J	Pimephales promelas	Biomass	7 days	1.000	0.011	0.045	0.68	0.66	Pass	Pass	6.83
J	Pimephales promelas	Biomass	7 days	1.000	0.044	0.051	0.50	0.52	Pass	Pass	-5.05
J	Pimephales promelas	Biomass	7 days	1.000	0.036	0.049	0.55	0.49	Pass	Pass	9.27
J	Pimephales promelas	Biomass	7 days	1.000	0.052	0.087	0.58	0.53	Pass	Pass	8.01
J	Pimephales promelas	Biomass	7 days	1.000	0.046	0.030	0.49	0.52	Pass	Pass	-5.91
J	Pimephales promelas	Biomass	7 days	1.000	0.071	0.037	0.48	0.57	Pass	Pass	-19.10
J	Pimephales promelas	Biomass	7 days	1.000	0.083	0.066	0.54	0.51	Pass	Pass	5.52
J	Pimephales promelas	Biomass	7 days	1.000	0.065	0.050	0.55	0.53	Pass	Pass	4.13
J	Pimephales promelas	Biomass	7 days	1.000	0.050	0.042	0.49	0.56	Pass	Pass	-13.38
J	Pimephales promelas	Biomass	7 days	1.000	0.063	0.051	0.48	0.46	Pass	Pass	2.52
J	Pimephales promelas	Biomass	7 days	1.000	0.071	0.071	0.86	0.77	Pass	Pass	9.96
J	Pimephales promelas	Biomass	7 days	1.000	0.055	0.046	0.78	0.76	Pass	Pass	3.57
J	Pimephales promelas	Biomass	7 days	1.000	0.091	0.109	0.90	0.87	Pass	Pass	3.21
J	Pimephales promelas	Biomass	7 days	1.000	0.055	0.071	0.74	0.81	Pass	Pass	-9.20
J	Pimephales promelas	Biomass	7 days	1.000	0.060	0.022	0.59	0.57	Pass	Pass	2.81
J	Pimephales promelas	Biomass	7 days	1.000	0.019	0.026	0.64	0.69	Pass	Pass	-7.55
J	Pimephales promelas	Biomass	7 days	1.000	0.028	0.064	0.72	0.75	Pass	Pass	-3.68
J	Pimephales promelas	Biomass	7 days	1.000	0.060	0.060	0.63	0.61	Pass	Pass	3.40
J	Pimephales promelas	Biomass	7 days	1.000	0.031	0.065	0.62	0.61	Pass	Pass	1.29
J	Pimephales promelas	Biomass	7 days	1.000	0.039	0.060	0.70	0.74	Pass	Pass	-6.27
M	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.014	0.019	0.017	0.98	0.93	Pass	Pass	4.36

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
M	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.014	0.010	0.202	0.99	0.49	Fail	Fail	50.88
M	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.014	0.063	0.048	0.96	0.96	Pass	Pass	0.42
M	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.014	0.021	0.043	0.92	0.96	Pass	Pass	-4.90
M	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.014	0.010	0.005	0.99	1.00	Pass	Pass	-0.50
M	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.014	0.047	0.010	0.96	0.99	Pass	Pass	-2.60
M	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.014	0.030	0.057	0.93	0.37	Fail	Fail	60.17
M	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.014	0.036	0.022	0.95	0.95	Pass	Pass	0.26
M	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.014	0.015	0.023	0.98	0.98	Pass	Pass	0.25
M	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.014	0.063	0.000	0.95	0.99	Pass	Pass	-3.94
M	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.014	0.015	0.036	0.96	0.97	Pass	Pass	-0.62
M	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.014	0.075	0.031	0.78	0.88	Pass	Pass	-12.75
N	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.006	0.063	0.049	0.93	0.85	Pass	Pass	9.12
N	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.006	0.043	0.076	0.81	0.75	Pass	Pass	8.02
N	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.006	0.009	0.117	0.95	0.80	Pass	Fail	15.94
N	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.006	0.048	0.019	0.97	0.99	Pass	Pass	-1.54
N	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.006	0.093	0.069	0.87	0.89	Pass	Pass	-2.06
N	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.006	0.030	0.005	0.96	1.00	Pass	Pass	-3.64
N	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.006	0.135	0.029	0.85	0.85	Pass	Pass	-0.59
N	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.006	0.027	0.025	0.97	0.97	Pass	Pass	0.82
N	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.006	0.034	0.092	0.95	0.90	Pass	Pass	4.75
N	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.006	0.000	0.000	1.00	1.00	Pass	Pass	0.00
N	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.006	0.053	0.025	0.87	0.92	Pass	Pass	-5.95
N	Strongylocentrotus purpuratus	Fertilization	40 minutes	0.006	0.006	0.020	1.00	0.99	Pass	Pass	0.50
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.008	0.111	0.95	0.76	Fail	Fail	19.22
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.017	0.063	0.92	0.79	Fail	Pass	14.44
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.043	0.045	0.82	0.54	Fail	Fail	33.36
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.017	0.038	0.96	0.91	Fail	Pass	5.04
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.025	0.037	0.91	0.91	Pass	Pass	-0.33

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.027	0.049	0.83	0.14	Fail	Fail	82.64
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.015	0.011	0.97	0.99	Pass	Pass	-1.57
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.007	0.014	0.99	0.98	Pass	Pass	1.54
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.043	0.012	0.95	0.93	Pass	Pass	1.22
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.100	0.050	0.84	0.10	Fail	Fail	87.44
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.034	0.038	0.93	0.75	Fail	Pass	19.93
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.007	0.004	0.98	0.99	Pass	Pass	-1.00
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.006	0.041	0.97	0.84	Fail	Pass	13.42
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.023	0.065	0.96	0.19	Fail	Fail	79.90
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.000	0.000	1.00	1.00	Pass	Pass	0.00
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.000	0.010	1.00	0.99	Fail	Pass	1.32
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.022	0.089	0.93	0.52	Fail	Fail	44.20
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.024	0.061	0.92	0.68	Fail	Fail	26.34
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.007	0.008	0.98	0.99	Pass	Pass	-0.53
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.049	0.065	0.88	0.88	Pass	Pass	-0.55
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.022	0.011	0.93	0.96	Pass	Pass	-3.46
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.017	0.008	0.87	0.01	Fail	Fail	99.42
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.003	0.022	0.87	0.98	Pass	Pass	-12.22
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.017	0.071	0.96	0.72	Fail	Fail	24.29
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.004	0.000	1.00	1.00	Pass	Pass	-0.15
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.005	0.005	1.00	1.00	Pass	Pass	0.00
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.037	0.029	0.93	0.90	Pass	Pass	3.96
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.012	0.160	0.95	0.18	Fail	Fail	81.27
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.013	0.020	0.95	0.93	Pass	Pass	1.96
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.000	0.007	1.00	0.99	Fail	Pass	1.09
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.010	0.010	0.98	0.98	Pass	Pass	0.28
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.019	0.007	0.98	0.98	Pass	Pass	-0.49
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.000	0.006	1.00	1.00	Pass	Pass	0.37

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O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.018	0.044	0.91	0.18	Fail	Fail	80.26
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.019	0.085	0.94	0.71	Fail	Fail	24.20
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.028	0.051	0.95	0.71	Fail	Fail	25.70
O	Tripneustes gratilla	Fertilization	40 minutes	0.011	0.008	0.007	0.98	0.98	Pass	Pass	0.07
I	Americamysis bahia	Survival	48-96 hours	0.030	0.000	0.058	1.00	0.95	Pass	Pass	5.00
I	Americamysis bahia	Survival	48-96 hours	0.030	0.000	0.000	1.00	1.00	Pass	Pass	0.00
I	Americamysis bahia	Survival	48-96 hours	0.030	0.082	0.050	0.90	0.93	Pass	Pass	-2.78
I	Americamysis bahia	Survival	48-96 hours	0.030	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Americamysis bahia	Survival	48-96 hours	0.030	0.050	0.082	0.93	0.90	Pass	Pass	2.70
I	Americamysis bahia	Survival	48-96 hours	1.000	0.050	0.050	0.93	0.98	Pass	Pass	-5.41
I	Americamysis bahia	Survival	48-96 hours	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
D	Americamysis bahia	Survival	48-96 hours	0.005	0.050	0.100	0.98	0.95	Pass	Pass	2.56
D	Americamysis bahia	Survival	48-96 hours	0.010	0.000	0.058	1.00	0.95	Pass	Pass	5.00
D	Americamysis bahia	Survival	48-96 hours	0.005	0.050	0.058	0.98	0.95	Pass	Pass	2.56
D	Americamysis bahia	Survival	48-96 hours	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
D	Americamysis bahia	Survival	48-96 hours	0.010	0.050	0.050	0.98	0.98	Pass	Pass	0.00
D	Americamysis bahia	Survival	48-96 hours	0.010	0.058	0.126	0.95	0.88	Pass	Pass	7.89
D	Americamysis bahia	Survival	48-96 hours	0.010	0.050	0.050	0.98	0.98	Pass	Pass	0.00
D	Americamysis bahia	Survival	48-96 hours	0.010	0.000	0.000	1.00	1.00	Pass	Pass	0.00
D	Americamysis bahia	Survival	48-96 hours	0.005	0.058	0.058	0.95	0.95	Pass	Pass	0.00
D	Americamysis bahia	Survival	48-96 hours	0.005	0.050	0.050	0.98	0.98	Pass	Pass	0.00
I	Americamysis bahia	Survival	48-96 hours	0.030	0.050	0.000	0.98	1.00	Pass	Pass	-2.56
F	Mytilis edulis	Larval Development	48 hours	0.100	0.005	0.018	0.96	0.90	Fail	Pass	6.01
F	Mytilis edulis	Larval Development	48 hours	0.100	0.006	0.010	0.98	0.97	Pass	Pass	0.79
F	Mytilis edulis	Larval Development	48 hours	0.100	0.006	0.010	0.95	0.95	Pass	Pass	0.66
F	Mytilis edulis	Larval Development	48 hours	0.100	0.010	0.024	0.95	0.91	Fail	Pass	4.34
F	Mytilis edulis	Larval Development	48 hours	0.100	0.010	0.014	0.95	0.91	Fail	Pass	4.46
F	Mytilis edulis	Larval Development	48 hours	0.100	0.006	0.019	0.99	0.97	Pass	Pass	2.03

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
F	Mytilis edulis	Larval Development	48 hours	0.100	0.006	0.027	0.96	0.92	Fail	Pass	4.19
F	Mytilis edulis	Larval Development	48 hours	0.100	0.026	0.030	0.92	0.85	Fail	Pass	8.28
F	Mytilis edulis	Larval Development	48 hours	0.100	0.022	0.038	0.93	0.88	Fail	Pass	6.02
I	Mytilis edulis	Larval Development	48 hours	0.028	0.002	0.011	0.99	0.97	Pass	Pass	0.88
I	Mytilis edulis	Larval Development	48 hours	0.059	0.013	0.014	0.96	0.95	Pass	Pass	1.45
I	Mytilis edulis	Larval Development	48 hours	0.059	0.021	0.019	0.93	0.94	Pass	Pass	-1.10
I	Mytilis edulis	Larval Development	48 hours	0.020	0.013	0.010	0.94	0.96	Pass	Pass	-2.59
P	Mytilis edulis	Larval Development	48 hours	0.008	0.014	0.019	0.92	0.89	Pass	Pass	2.83
P	Mytilis edulis	Larval Development	48 hours	0.008	0.003	0.009	0.96	0.94	Fail	Pass	2.02
P	Mytilis edulis	Larval Development	48 hours	0.008	0.004	0.010	0.98	0.95	Fail	Pass	2.60
P	Mytilis edulis	Larval Development	48 hours	0.008	0.004	0.005	0.97	0.98	Pass	Pass	-1.29
P	Mytilis edulis	Larval Development	48 hours	0.008	0.005	0.004	0.99	0.99	Pass	Pass	-0.02
P	Mytilis edulis	Larval Development	48 hours	0.008	0.003	0.015	0.96	0.84	Fail	Pass	12.62
Q	Mytilis edulis	Larval Development	48 hours	0.011	0.037	0.058	0.92	0.88	Pass	Pass	4.45
Q	Mytilis edulis	Larval Development	48 hours	0.011	0.018	0.017	0.95	0.95	Pass	Pass	-0.47
Q	Mytilis edulis	Larval Development	48 hours	0.011	0.008	0.020	0.97	0.95	Pass	Pass	2.02
Q	Mytilis edulis	Larval Development	48 hours	0.011	0.024	0.042	0.92	0.91	Pass	Pass	1.41
Q	Mytilis edulis	Larval Development	48 hours	0.011	0.000	0.014	1.00	0.99	Pass	Pass	1.39
R	Mytilis edulis	Larval Development	48 hours	0.001	0.024	0.020	0.92	0.91	Pass	Pass	1.42
R	Mytilis edulis	Larval Development	48 hours	0.001	0.030	0.035	0.91	0.91	Pass	Pass	0.25
R	Mytilis edulis	Larval Development	48 hours	0.001	0.017	0.026	0.96	0.96	Pass	Pass	0.23
R	Mytilis edulis	Larval Development	48 hours	0.001	0.014	0.008	0.96	0.94	Pass	Pass	1.96
R	Mytilis edulis	Larval Development	48 hours	0.001	0.003	0.004	0.93	0.95	Pass	Pass	-1.56
I	Americamysis bahia	Survival	7 days	0.010	0.107	0.093	0.90	0.95	Pass	Pass	-5.56
I	Americamysis bahia	Survival	7 days	0.010	0.093	0.151	0.03	0.05	Pass	Pass	5.26
I	Americamysis bahia	Survival	7 days	0.003	0.151	0.071	0.90	0.98	Pass	Pass	-8.33
I	Americamysis bahia	Survival	7 days	0.001	0.151	0.093	0.90	0.95	Pass	Pass	-5.56
I	Americamysis bahia	Survival	7 days	0.010	0.093	0.093	0.95	0.95	Pass	Pass	0.00

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Americamysis bahia	Survival	7 days	0.059	0.104	0.093	0.93	0.95	Pass	Pass	-2.70
I	Americamysis bahia	Survival	7 days	0.015	0.000	0.071	1.00	0.98	Pass	Pass	2.50
I	Americamysis bahia	Survival	7 days	0.002	0.141	0.177	0.85	0.85	Pass	Pass	0.00
I	Americamysis bahia	Survival	7 days	0.037	0.104	0.104	0.93	0.93	Pass	Pass	0.00
I	Americamysis bahia	Survival	7 days	0.010	0.149	0.149	0.88	0.88	Pass	Pass	0.00
I	Americamysis bahia	Survival	7 days	0.007	0.104	0.071	0.93	0.98	Pass	Pass	-5.41
I	Americamysis bahia	Survival	7 days	0.020	0.141	0.093	0.95	0.95	Pass	Pass	0.00
I	Americamysis bahia	Survival	7 days	0.059	0.141	0.093	0.95	0.95	Pass	Pass	0.00
I	Americamysis bahia	Survival	7 days	0.007	0.151	0.151	0.90	0.90	Pass	Pass	0.00
I	Americamysis bahia	Survival	7 days	0.006	0.149	0.151	0.88	0.80	Pass	Pass	8.57
I	Americamysis bahia	Survival	7 days	0.010	0.071	0.093	0.98	0.95	Pass	Pass	2.56
I	Americamysis bahia	Survival	7 days	0.002	0.093	0.000	0.95	1.00	Pass	Pass	-5.26
I	Americamysis bahia	Survival	7 days	0.070	0.093	0.407	0.95	0.90	Pass	Pass	5.26
I	Americamysis bahia	Survival	7 days	0.040	0.104	0.093	0.93	0.95	Pass	Pass	-2.70
I	Americamysis bahia	Survival	7 days	0.070	0.093	0.071	0.95	0.98	Pass	Pass	-2.63
I	Americamysis bahia	Survival	7 days	0.022	0.107	0.198	0.90	0.78	Pass	Pass	13.89
I	Americamysis bahia	Survival	7 days	0.002	0.128	0.071	0.83	0.98	Pass	Pass	-18.18
I	Americamysis bahia	Survival	7 days	0.012	0.149	0.141	0.88	0.75	Pass	Pass	14.29
I	Americamysis bahia	Survival	7 days	0.007	0.104	0.107	0.93	0.90	Pass	Pass	2.70
I	Americamysis bahia	Survival	7 days	0.002	0.104	0.071	0.88	0.98	Pass	Pass	-11.43
I	Americamysis bahia	Survival	7 days	0.007	0.000	0.071	1.00	0.98	Pass	Pass	2.50
I	Americamysis bahia	Survival	7 days	0.002	0.104	0.071	0.93	0.98	Pass	Pass	-5.41
I	Americamysis bahia	Survival	7 days	0.070	0.093	0.071	0.95	0.98	Pass	Pass	-2.63
I	Americamysis bahia	Survival	7 days	0.002	0.093	0.071	0.95	0.98	Pass	Pass	-2.63
I	Americamysis bahia	Survival	7 days	0.012	0.104	0.000	0.93	1.00	Pass	Pass	-8.11
I	Americamysis bahia	Survival	7 days	0.002	0.093	0.093	0.92	0.92	Pass	Pass	0.00
I	Americamysis bahia	Survival	7 days	0.010	0.104	0.149	0.93	0.93	Pass	Pass	0.00
I	Americamysis bahia	Survival	7 days	0.007	0.107	0.149	0.90	0.93	Pass	Pass	-2.78

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Americamysis bahia	Survival	7 days	0.028	0.107	0.093	0.90	0.95	Pass	Pass	-5.56
I	Americamysis bahia	Survival	7 days	0.007	0.104	0.149	0.93	0.88	Pass	Pass	5.41
I	Americamysis bahia	Survival	7 days	0.020	0.033	0.033	0.95	0.95	Pass	Pass	0.00
I	Americamysis bahia	Survival	7 days	0.015	0.000	0.107	1.00	0.90	Pass	Pass	10.00
I	Americamysis bahia	Survival	7 days	0.001	0.000	0.093	1.00	0.95	Pass	Pass	5.00
I	Americamysis bahia	Survival	7 days	0.010	0.151	0.104	0.90	0.88	Pass	Pass	2.78
I	Americamysis bahia	Survival	7 days	0.037	0.141	0.151	0.85	0.90	Pass	Pass	-5.88
I	Americamysis bahia	Survival	7 days	0.028	0.093	0.093	0.95	0.95	Pass	Pass	0.00
I	Americamysis bahia	Survival	7 days	0.010	0.093	0.000	0.95	1.00	Pass	Pass	-5.26
I	Americamysis bahia	Survival	7 days	0.012	0.071	0.149	0.98	0.93	Pass	Pass	5.13
I	Americamysis bahia	Survival	7 days	0.003	0.071	0.104	0.98	0.93	Pass	Pass	5.13
I	Americamysis bahia	Survival	7 days	1.000	0.000	0.093	1.00	0.95	Pass	Pass	5.00
I	Americamysis bahia	Survival	7 days	1.000	0.151	0.141	0.90	0.85	Pass	Pass	5.56
I	Americamysis bahia	Growth	7 days	0.010	0.040	0.052	0.26	0.31	Pass	Pass	-17.18
I	Americamysis bahia	Growth	7 days	0.010	0.036	0.033	0.24	0.23	Pass	Pass	2.29
I	Americamysis bahia	Growth	7 days	0.003	0.040	0.022	0.33	0.36	Pass	Pass	-10.99
I	Americamysis bahia	Growth	7 days	0.001	0.040	0.033	0.33	0.34	Pass	Pass	-4.07
I	Americamysis bahia	Growth	7 days	0.010	0.058	0.038	0.33	0.33	Pass	Pass	-0.45
I	Americamysis bahia	Growth	7 days	0.059	0.053	0.056	0.38	0.37	Pass	Pass	2.45
I	Americamysis bahia	Growth	7 days	0.015	0.033	0.039	0.34	0.34	Pass	Pass	-0.59
I	Americamysis bahia	Growth	7 days	0.002	0.060	0.068	0.31	0.32	Pass	Pass	-4.74
I	Americamysis bahia	Growth	7 days	0.037	0.031	0.039	0.31	0.27	Pass	Pass	12.08
I	Americamysis bahia	Growth	7 days	0.010	0.043	0.073	0.26	0.26	Pass	Pass	1.82
I	Americamysis bahia	Growth	7 days	0.007	0.091	0.034	0.29	0.28	Pass	Pass	5.67
I	Americamysis bahia	Growth	7 days	0.020	0.027	0.042	0.28	0.30	Pass	Pass	-6.26
I	Americamysis bahia	Growth	7 days	0.059	0.043	0.038	0.26	0.28	Pass	Pass	-6.35
I	Americamysis bahia	Growth	7 days	0.007	0.090	0.077	0.44	0.43	Pass	Pass	1.08
I	Americamysis bahia	Growth	7 days	0.006	0.076	0.110	0.38	0.34	Pass	Pass	10.05

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Americamysis bahia	Growth	7 days	0.010	0.036	0.058	0.34	0.28	Fail	Pass	16.32
I	Americamysis bahia	Growth	7 days	0.002	0.060	0.038	0.40	0.39	Pass	Pass	2.36
I	Americamysis bahia	Growth	7 days	0.070	0.053	0.041	0.34	0.32	Pass	Pass	6.65
I	Americamysis bahia	Growth	7 days	0.040	0.042	0.037	0.32	0.31	Pass	Pass	5.34
I	Americamysis bahia	Growth	7 days	0.070	0.046	0.053	0.31	0.36	Pass	Pass	-15.42
I	Americamysis bahia	Growth	7 days	0.022	0.067	0.056	0.21	0.21	Pass	Pass	1.28
I	Americamysis bahia	Growth	7 days	0.002	0.061	0.043	0.29	0.33	Pass	Pass	-15.20
I	Americamysis bahia	Growth	7 days	0.012	0.084	0.064	0.32	0.25	Pass	Fail	20.61
I	Americamysis bahia	Growth	7 days	0.007	0.048	0.037	0.33	0.31	Pass	Pass	5.65
I	Americamysis bahia	Growth	7 days	0.002	0.046	0.056	0.32	0.34	Pass	Pass	-5.74
I	Americamysis bahia	Growth	7 days	0.007	0.056	0.042	0.35	0.36	Pass	Pass	-1.49
I	Americamysis bahia	Growth	7 days	0.002	0.058	0.058	0.33	0.39	Pass	Pass	-19.28
I	Americamysis bahia	Growth	7 days	0.070	0.040	0.034	0.37	0.38	Pass	Pass	-2.01
I	Americamysis bahia	Growth	7 days	0.002	0.056	0.034	0.36	0.37	Pass	Pass	-3.72
I	Americamysis bahia	Growth	7 days	0.012	0.036	0.030	0.22	0.22	Pass	Pass	2.27
I	Americamysis bahia	Growth	7 days	0.002	0.044	0.034	0.27	0.25	Pass	Pass	6.27
I	Americamysis bahia	Growth	7 days	0.010	0.032	0.060	0.32	0.29	Pass	Pass	11.51
I	Americamysis bahia	Growth	7 days	0.007	0.045	0.050	0.30	0.32	Pass	Pass	-6.84
I	Americamysis bahia	Growth	7 days	0.028	0.036	0.021	0.33	0.36	Pass	Pass	-10.73
I	Americamysis bahia	Growth	7 days	0.007	0.075	0.079	0.31	0.35	Pass	Pass	-10.68
I	Americamysis bahia	Growth	7 days	0.020	0.038	0.047	0.33	0.32	Pass	Pass	1.23
I	Americamysis bahia	Growth	7 days	0.015	0.015	0.034	0.28	0.27	Pass	Pass	5.43
I	Americamysis bahia	Growth	7 days	0.001	0.027	0.020	0.36	0.36	Pass	Pass	-1.27
I	Americamysis bahia	Growth	7 days	0.010	0.052	0.016	0.26	0.27	Pass	Pass	-3.56
I	Americamysis bahia	Growth	7 days	0.037	0.055	0.029	0.26	0.27	Pass	Pass	-4.29
I	Americamysis bahia	Growth	7 days	0.028	0.039	0.034	0.32	0.32	Pass	Pass	-0.16
I	Americamysis bahia	Growth	7 days	0.010	0.035	0.041	0.23	0.26	Pass	Pass	-11.88
I	Americamysis bahia	Growth	7 days	0.012	0.044	0.067	0.29	0.25	Pass	Pass	12.26

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
I	Americamysis bahia	Growth	7 days	0.003	0.035	0.046	0.36	0.35	Pass	Pass	3.17
I	Americamysis bahia	Growth	7 days	1.000	0.062	0.016	0.31	0.30	Pass	Pass	2.04
I	Americamysis bahia	Growth	7 days	1.000	0.051	0.072	0.32	0.31	Pass	Pass	3.91
Small Facility	Selenastrum capricornutum	Growth	96 hours	1.000	176300.000	131200.000	4443000.00	1970000.00	Fail	Fail	55.67
Small Facility	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	12.280	7.749	24.50	21.60	Pass	Fail	11.84
Small Facility	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	10.430	5.363	19.00	12.90	Pass	Fail	32.11
Small Facility	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	3.234	7.009	27.30	22.30	Pass	Fail	18.32
Small Facility	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	5.208	7.965	27.30	11.10	Fail	Fail	59.34
Small Facility	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	6.197	8.564	21.20	7.70	Fail	Fail	63.68
Small Facility	Ceriodaphnia dubia	Reproduction	6-8 days	1.000	12.980	9.800	21.20	18.40	Pass	Fail	13.21
Small Facility	Pimephales promelas	Survival	7 days	1.000	0.000	0.050	1.00	0.88	Fail	Pass	12.50
Small Facility	Pimephales promelas	Biomass	7 days	1.000	0.010	0.616	0.25	0.21	Pass	Pass	14.14
Small Facility	Pimephales promelas	Survival	7 days	1.000	0.000	0.000	1.00	1.00	Pass	Pass	0.00
Small Facility	Pimephales promelas	Biomass	7 days	1.000	0.017	0.025	0.32	0.33	Pass	Pass	-2.33
Small Facility	Pimephales promelas	Survival	7 days	1.000	0.058	0.386	0.95	0.78	Pass	Fail	18.42
Small Facility	Pimephales promelas	Biomass	7 days	1.000	0.017	0.141	0.38	0.33	Pass	Fail	13.07
Small Facility	Pimephales promelas	Survival	7 days	1.000	0.100	0.058	0.95	0.95	Pass	Pass	0.00
Small Facility	Pimephales promelas	Biomass	7 days	1.000	0.087	0.022	0.44	0.50	Pass	Pass	-14.29
Small Facility	Pimephales promelas	Survival	7 days	1.000	0.116	0.058	0.90	0.95	Pass	Pass	-5.56
Small Facility	Pimephales promelas	Biomass	7 days	1.000	0.037	0.039	0.35	0.33	Pass	Pass	7.09
Small Facility	Pimephales promelas	Survival	7 days	1.000	0.000	0.050	1.00	0.93	Pass	Pass	7.50
Small Facility	Pimephales promelas	Biomass	7 days	1.000	0.026	0.030	0.37	0.42	Pass	Pass	-13.42

Source ID	Test Species	Test Type	Length	IWC	Control SD	IWC SD	Control Response	IWC Response	NOEC Pass or Fail	TST Pass or Fail	Mean % Effect at IWC
Small Facility	Pimephales promelas	Survival	7 days	1.000	0.058	0.096	0.95	0.88	Fail	Pass	7.89
Small Facility	Pimephales promelas	Biomass	7 days	1.000	0.022	0.038	0.32	0.28	Pass	Pass	14.06
Small Facility	Ceriodaphnia dubia	Survival	48-96 hours	1.000	0.100	0.100	0.95	0.95	Pass	Pass	0.00
Small Facility	Ceriodaphnia dubia	Survival	48-96 hours	1.000	0.000	0.100	1.00	0.75	Fail	Fail	25.00

Appendix B

Database of SWAMP and CEDEN Test

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	4.927	7.445	35.56	38.10	Pass	Pass	-7.16
Ceriodaphnia dubia	Reproduction	6-8 day	4.927	10.615	35.56	35.30	Pass	Pass	0.72
Ceriodaphnia dubia	Reproduction	6-8 day	4.927	8.094	35.56	35.20	Pass	Pass	1.00
Ceriodaphnia dubia	Reproduction	6-8 day	4.927	7.987	35.56	35.30	Pass	Pass	0.72
Ceriodaphnia dubia	Reproduction	6-8 day	4.927	9.649	35.56	37.00	Pass	Pass	-4.06
Ceriodaphnia dubia	Reproduction	6-8 day	4.473	4.322	23.70	27.30	Pass	Pass	-15.19
Ceriodaphnia dubia	Reproduction	6-8 day	4.473	3.292	23.70	21.38	Pass	Pass	9.81
Ceriodaphnia dubia	Reproduction	6-8 day	4.473	3.239	23.70	26.40	Pass	Pass	-11.39
Ceriodaphnia dubia	Reproduction	6-8 day	4.473	8.465	23.70	30.90	Pass	Pass	-30.38
Pimephales promelas	Survival	7 day	0.050	0.050	97.50	92.50	Pass	Pass	5.13
Pimephales promelas	Survival	7 day	0.050	0.050	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.050	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	0.050	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	0.050	0.096	97.50	92.50	Pass	Pass	5.13
Pimephales promelas	Survival	7 day	0.050	0.312	97.50	75.50	Fail	Pass	22.56
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.100	22.10	5.40	Fail	Fail	75.57
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.163	22.10	8.88	Fail	Fail	59.84
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.191	22.10	19.20	Pass	Pass	13.12
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.100	22.10	22.00	Pass	Pass	0.45
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	22.10	21.30	Pass	Pass	3.62
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.115	22.10	21.00	Pass	Pass	4.98
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.191	22.10	21.20	Pass	Pass	4.07
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.085	19.80	24.90	Pass	Pass	-25.76
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.115	19.80	23.90	Pass	Pass	-20.71
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.100	19.80	25.70	Pass	Pass	-29.80
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.191	19.80	20.78	Pass	Pass	-4.94
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.100	19.80	27.20	Pass	Pass	-37.37
Pimephales promelas	Survival	7 day	0.000	0.191	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.000	0.100	100.00	80.00	Fail	Pass	20.00
Pimephales promelas	Survival	7 day	0.050	0.141	100.00	85.00	Fail	Pass	15.00

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	0.050	0.050	100.00	85.00	Fail	Pass	15.00
Pimephales promelas	Survival	7 day	0.050	0.096	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.050	0.050	100.00	90.00	Pass	Pass	10.00
Pimephales promelas	Survival	7 day	0.050	0.082	100.00	85.00	Fail	Pass	15.00
Pimephales promelas	Survival	7 day	0.050	0.141	100.00	95.75	Pass	Pass	4.25
Pimephales promelas	Survival	7 day	0.050	0.050	100.00	70.00	Fail	Fail	30.00
Pimephales promelas	Survival	7 day	0.050	0.000	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.050	0.141	100.00	85.00	Fail	Pass	15.00
Pimephales promelas	Survival	7 day	0.050	0.096	100.00	85.00	Fail	Pass	15.00
Pimephales promelas	Survival	7 day	0.050	0.050	100.00	85.00	Fail	Pass	15.00
Pimephales promelas	Survival	7 day	0.050	0.000	100.00	95.00	Pass	Pass	5.00
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	19.60	19.70	Pass	Pass	-0.51
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.055	19.60	18.20	Pass	Pass	7.14
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	19.60	16.20	Fail	Pass	17.35
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.141	17.60	20.11	Pass	Pass	-14.27
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.263	17.60	19.20	Pass	Pass	-9.09
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.443	17.60	19.70	Pass	Pass	-11.93
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.096	17.60	17.40	Pass	Pass	1.14
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.082	17.60	19.50	Pass	Pass	-10.80
Pimephales promelas	Survival	7 day	0.052	0.050	97.50	80.00	Fail	Fail	17.95
Pimephales promelas	Survival	7 day	0.052	0.145	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.052	0.115	97.50	92.50	Pass	Pass	5.13
Pimephales promelas	Survival	7 day	0.052	0.049	97.50	92.50	Pass	Pass	5.13
Pimephales promelas	Survival	7 day	0.052	0.373	97.50	90.00	Pass	Pass	7.69
Pimephales promelas	Survival	7 day	0.141	0.091	97.50	80.00	Fail	Fail	17.95
Pimephales promelas	Survival	7 day	0.141	0.096	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.141	0.209	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	0.141	0.049	97.50	90.00	Pass	Pass	7.69
Pimephales promelas	Survival	7 day	0.141	0.135	97.50	92.50	Pass	Pass	5.13
Ceriodaphnia dubia	Reproduction	6-8 day	0.141	0.236	19.60	14.50	Fail	Fail	26.02

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	0.141	0.334	19.60	16.40	Fail	Pass	16.33
Pimephales promelas	Survival	7 day	0.141	0.061	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.141	0.174	97.50	100.00	Pass	Pass	-2.56
Ceriodaphnia dubia	Reproduction	6-8 day	0.141	0.150	22.90	16.80	Fail	Fail	26.64
Ceriodaphnia dubia	Reproduction	6-8 day	0.141	0.122	22.90	25.00	Pass	Pass	-9.17
Ceriodaphnia dubia	Reproduction	6-8 day	0.141	0.486	22.90	25.20	Pass	Pass	-10.04
Ceriodaphnia dubia	Reproduction	6-8 day	0.055	0.000	22.90	25.90	Pass	Pass	-13.10
Ceriodaphnia dubia	Reproduction	6-8 day	0.055	0.000	22.90	23.80	Pass	Pass	-3.93
Ceriodaphnia dubia	Reproduction	6-8 day	0.055	0.000	22.90	23.40	Pass	Pass	-2.18
Ceriodaphnia dubia	Reproduction	6-8 day	0.039	0.050	22.90	25.40	Pass	Pass	-10.92
Ceriodaphnia dubia	Reproduction	6-8 day	0.039	0.126	22.90	21.20	Pass	Pass	7.42
Pimephales promelas	Survival	7 day	0.039	0.055	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.039	0.096	100.00	95.25	Pass	Pass	4.75
Pimephales promelas	Survival	7 day	0.039	0.082	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.039	0.150	100.00	90.00	Pass	Pass	10.00
Pimephales promelas	Survival	7 day	0.039	0.115	100.00	77.50	Fail	Pass	22.50
Pimephales promelas	Survival	7 day	0.039	0.127	100.00	65.00	Fail	Pass	35.00
Pimephales promelas	Survival	7 day	0.039	0.281	100.00	92.50	Pass	Pass	7.50
Pimephales promelas	Survival	7 day	0.039	0.093	100.00	90.00	Pass	Pass	10.00
Ceriodaphnia dubia	Reproduction	6-8 day	0.039	0.049	24.20	24.00	Pass	Pass	0.83
Ceriodaphnia dubia	Reproduction	6-8 day	0.039	0.050	24.20	23.70	Pass	Pass	2.07
Ceriodaphnia dubia	Reproduction	6-8 day	0.039	0.141	24.20	20.80	Fail	Pass	14.05
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.130	24.20	17.60	Fail	Fail	27.27
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	24.20	19.10	Fail	Pass	21.07
Pimephales promelas	Survival	7 day	0.050	0.058	92.25	92.50	Pass	Pass	-0.27
Pimephales promelas	Survival	7 day	0.050	0.000	92.25	68.50	Fail	Pass	25.75
Pimephales promelas	Survival	7 day	0.050	0.201	92.25	80.00	Pass	Pass	13.28
Pimephales promelas	Survival	7 day	0.050	0.000	92.25	92.75	Pass	Pass	-0.54
Pimephales promelas	Survival	7 day	0.050	0.082	92.25	32.00	Fail	Fail	65.31
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.058	23.11	24.20	Pass	Pass	-4.71

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.126	23.11	28.00	Pass	Pass	-21.15
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.096	13.60	33.00	Pass	Pass	-142.65
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.126	21.80	22.90	Pass	Pass	-5.05
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.058	21.80	24.80	Pass	Pass	-13.76
Ceriodaphnia dubia	Reproduction	6-8 day	0.088	0.000	21.80	17.10	Fail	Fail	21.56
Ceriodaphnia dubia	Reproduction	6-8 day	0.088	0.000	21.80	22.80	Pass	Pass	-4.59
Ceriodaphnia dubia	Reproduction	6-8 day	0.088	0.058	21.80	20.80	Pass	Pass	4.59
Ceriodaphnia dubia	Reproduction	6-8 day	0.088	0.055	20.60	25.40	Pass	Pass	-23.30
Ceriodaphnia dubia	Reproduction	6-8 day	0.088	0.055	20.60	23.40	Pass	Pass	-13.59
Ceriodaphnia dubia	Reproduction	6-8 day	0.088	0.000	20.60	21.50	Pass	Pass	-4.37
Ceriodaphnia dubia	Reproduction	6-8 day	0.088	0.000	20.60	22.80	Pass	Pass	-10.68
Ceriodaphnia dubia	Reproduction	6-8 day	0.088	0.000	20.60	18.90	Pass	Pass	8.25
Ceriodaphnia dubia	Reproduction	6-8 day	0.088	0.050	20.60	16.40	Fail	Fail	20.39
Pimephales promelas	Survival	7 day	0.000	0.064	90.00	88.00	Pass	Pass	2.22
Pimephales promelas	Survival	7 day	0.000	0.050	90.00	87.50	Pass	Pass	2.78
Pimephales promelas	Survival	7 day	0.000	0.095	90.00	84.00	Pass	Pass	6.67
Pimephales promelas	Survival	7 day	0.000	0.061	90.00	92.75	Pass	Pass	-3.06
Pimephales promelas	Survival	7 day	0.000	0.050	90.00	80.75	Pass	Pass	10.28
Pimephales promelas	Survival	7 day	0.000	0.050	90.00	82.50	Pass	Pass	8.33
Pimephales promelas	Survival	7 day	0.000	0.000	90.00	55.00	Fail	Pass	38.89
Pimephales promelas	Survival	7 day	0.000	0.100	90.00	94.75	Pass	Pass	-5.28
Pimephales promelas	Survival	7 day	0.000	0.100	90.00	85.25	Pass	Pass	5.28
Pimephales promelas	Survival	7 day	0.000	0.061	90.00	82.50	Pass	Pass	8.33
Pimephales promelas	Survival	7 day	0.141	0.216	90.00	70.50	Fail	Pass	21.67
Pimephales promelas	Survival	7 day	0.141	0.126	90.00	72.50	Fail	Pass	19.44
Ceriodaphnia dubia	Reproduction	6-8 day	0.141	0.082	26.50	27.89	Pass	Pass	-5.24
Ceriodaphnia dubia	Reproduction	6-8 day	0.141	0.263	26.50	31.10	Pass	Pass	-17.36
Ceriodaphnia dubia	Reproduction	6-8 day	0.141	0.300	26.50	27.50	Pass	Pass	-3.77
Pimephales promelas	Survival	7 day	0.055	0.058	95.25	100.00	Pass	Pass	-4.99
Pimephales promelas	Survival	7 day	0.055	0.100	95.25	100.00	Pass	Pass	-4.99

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	0.055	0.082	95.25	100.00	Pass	Pass	-4.99
Selenastrum capricornutum	Growth	96 hours	0.055	0.129	6368000.00	6448000.00	Pass	Pass	-1.26
Selenastrum capricornutum	Growth	96 hours	0.082	0.056	6368000.00	5818000.00	Pass	Fail	8.64
Selenastrum capricornutum	Growth	96 hours	0.082	0.141	6368000.00	4118000.00	Fail	Fail	35.33
Ceriodaphnia dubia	Reproduction	6-8 day	0.082	0.054	24.00	27.25	Pass	Pass	-13.54
Ceriodaphnia dubia	Reproduction	6-8 day	0.082	0.141	24.00	29.70	Pass	Pass	-23.75
Ceriodaphnia dubia	Reproduction	6-8 day	0.082	0.096	24.00	32.50	Pass	Pass	-35.42
Ceriodaphnia dubia	Reproduction	6-8 day	0.082	0.093	24.00	22.60	Pass	Pass	5.83
Ceriodaphnia dubia	Reproduction	6-8 day	0.082	0.085	24.00	21.13	Fail	Pass	11.98
Ceriodaphnia dubia	Reproduction	6-8 day	0.082	0.058	24.00	26.44	Pass	Pass	-10.19
Ceriodaphnia dubia	Reproduction	6-8 day	0.082	0.127	24.00	39.90	Pass	Pass	-66.25
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.048	24.00	24.30	Pass	Pass	-1.25
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.058	24.00	26.10	Pass	Pass	-8.75
Ceriodaphnia dubia	Reproduction	6-8 day	0.096	0.000	24.00	26.00	Pass	Pass	-8.33
Pimephales promelas	Survival	7 day	0.096	0.050	87.75	97.50	Pass	Pass	-11.11
Pimephales promelas	Survival	7 day	0.096	0.050	87.75	87.50	Pass	Pass	0.28
Pimephales promelas	Survival	7 day	0.000	0.058	87.75	97.25	Pass	Pass	-10.83
Pimephales promelas	Survival	7 day	0.050	0.000	87.75	92.50	Pass	Pass	-5.41
Pimephales promelas	Survival	7 day	0.050	0.058	87.75	90.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	0.050	0.050	87.75	87.50	Pass	Pass	0.28
Pimephales promelas	Survival	7 day	0.050	0.058	87.75	90.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	0.050	0.061	87.75	90.75	Pass	Pass	-3.42
Pimephales promelas	Survival	7 day	0.050	0.058	87.75	53.75	Fail	Pass	38.75
Pimephales promelas	Survival	7 day	0.050	0.000	87.75	82.25	Pass	Pass	6.27
Pimephales promelas	Survival	7 day	0.058	0.052	87.75	92.75	Pass	Pass	-5.70
Pimephales promelas	Survival	7 day	0.058	0.058	87.75	97.50	Pass	Pass	-11.11
Pimephales promelas	Survival	7 day	0.058	0.050	87.75	90.00	Pass	Pass	-2.56
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.250	21.50	10.13	Fail	Fail	52.91
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.150	21.50	24.13	Pass	Pass	-12.21
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.271	21.50	24.00	Pass	Pass	-11.63

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.000	21.50	28.38	Pass	Pass	-31.98
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.096	21.50	31.80	Pass	Pass	-47.91
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	21.50	10.14	Fail	Fail	52.82
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	21.50	20.33	Pass	Pass	5.43
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.100	21.50	34.10	Pass	Pass	-58.60
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.050	21.50	36.50	Pass	Pass	-69.77
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.173	21.50	41.50	Pass	Pass	-93.02
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.100	21.50	22.71	Pass	Pass	-5.65
Pimephales promelas	Survival	7 day	0.058	0.171	97.50	83.50	Fail	Pass	14.36
Pimephales promelas	Survival	7 day	0.058	0.263	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	0.058	0.050	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Survival	7 day	0.058	0.096	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	0.058	0.058	97.50	83.25	Pass	Pass	14.62
Pimephales promelas	Survival	7 day	0.058	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	0.058	0.100	97.50	90.00	Pass	Pass	7.69
Pimephales promelas	Survival	7 day	0.058	0.105	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Survival	7 day	0.058	0.141	97.50	77.50	Fail	Fail	20.51
Pimephales promelas	Survival	7 day	0.058	0.173	97.50	92.50	Pass	Pass	5.13
Pimephales promelas	Survival	7 day	0.058	0.055	97.50	87.50	Pass	Pass	10.26
Pimephales promelas	Survival	7 day	0.058	0.058	97.50	95.00	Pass	Pass	2.56
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.000	25.40	34.90	Pass	Pass	-37.40
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.058	25.40	35.30	Pass	Pass	-38.98
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.058	25.40	33.60	Pass	Pass	-32.28
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.058	25.40	32.50	Pass	Pass	-27.95
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.058	25.40	26.60	Pass	Pass	-4.72
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.000	25.40	35.70	Pass	Pass	-40.55
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.058	25.40	34.10	Pass	Pass	-34.25
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.050	25.40	34.80	Pass	Pass	-37.01
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.055	25.40	41.10	Pass	Pass	-61.81
Pimephales promelas	Survival	7 day	0.058	0.000	92.75	100.00	Pass	Pass	-7.82

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	0.000	0.096	92.75	100.00	Pass	Pass	-7.82
Pimephales promelas	Survival	7 day	0.000	0.129	92.75	95.00	Pass	Pass	-2.43
Pimephales promelas	Survival	7 day	0.000	0.050	92.75	97.25	Pass	Pass	-4.85
Pimephales promelas	Survival	7 day	0.058	0.173	92.75	95.25	Pass	Pass	-2.70
Pimephales promelas	Survival	7 day	0.058	0.058	92.75	100.00	Pass	Pass	-7.82
Pimephales promelas	Survival	7 day	0.058	0.000	92.75	100.00	Pass	Pass	-7.82
Pimephales promelas	Survival	7 day	0.058	0.000	92.75	100.00	Pass	Pass	-7.82
Pimephales promelas	Survival	7 day	0.058	0.058	92.75	92.50	Pass	Pass	0.27
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	4433000.00	5598000.00	Pass	Pass	-26.28
Selenastrum capricornutum	Growth	96 hours	0.000	0.096	4433000.00	5373000.00	Pass	Pass	-21.20
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	4433000.00	5863000.00	Pass	Pass	-32.26
Selenastrum capricornutum	Growth	96 hours	0.100	0.141	4433000.00	2463000.00	Fail	Fail	44.44
Selenastrum capricornutum	Growth	96 hours	0.100	0.200	4433000.00	3843000.00	Pass	Fail	13.31
Selenastrum capricornutum	Growth	96 hours	0.100	0.100	4433000.00	5563000.00	Pass	Pass	-25.49
Selenastrum capricornutum	Growth	96 hours	0.100	0.082	4433000.00	3743000.00	Pass	Fail	15.57
Ceriodaphnia dubia	Reproduction	6-8 day	0.100	0.058	25.60	23.30	Pass	Pass	8.98
Ceriodaphnia dubia	Reproduction	6-8 day	0.100	0.058	25.60	24.00	Pass	Pass	6.25
Ceriodaphnia dubia	Reproduction	6-8 day	0.090	0.197	25.60	22.20	Pass	Pass	13.28
Ceriodaphnia dubia	Reproduction	6-8 day	0.090	0.010	25.60	20.60	Fail	Pass	19.53
Ceriodaphnia dubia	Reproduction	6-8 day	0.090	0.206	25.60	23.60	Pass	Pass	7.81
Ceriodaphnia dubia	Reproduction	6-8 day	0.090	0.186	25.60	26.30	Pass	Pass	-2.73
Ceriodaphnia dubia	Reproduction	6-8 day	0.090	0.165	25.60	26.00	Pass	Pass	-1.56
Ceriodaphnia dubia	Reproduction	6-8 day	0.090	0.265	25.60	24.70	Pass	Pass	3.52
Ceriodaphnia dubia	Reproduction	6-8 day	0.090	0.000	25.60	30.30	Pass	Pass	-18.36
Ceriodaphnia dubia	Reproduction	6-8 day	0.090	0.129	25.60	24.60	Pass	Pass	3.91
Pimephales promelas	Survival	7 day	0.090	0.443	100.00	94.50	Pass	Pass	5.50
Pimephales promelas	Survival	7 day	0.100	0.082	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.100	0.096	100.00	87.25	Fail	Pass	12.75
Pimephales promelas	Survival	7 day	0.100	0.000	100.00	94.75	Pass	Pass	5.25
Pimephales promelas	Survival	7 day	0.100	0.058	100.00	72.50	Fail	Fail	27.50

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	0.100	0.082	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.100	0.055	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.100	0.096	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.100	0.206	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.142	0.126	100.00	94.75	Pass	Pass	5.25
Selenastrum capricornutum	Growth	96 hours	0.142	0.263	4238000.00	5718000.00	Pass	Pass	-34.92
Selenastrum capricornutum	Growth	96 hours	0.142	0.082	4238000.00	2518000.00	Fail	Fail	40.59
Selenastrum capricornutum	Growth	96 hours	0.142	0.126	4238000.00	2583000.00	Fail	Fail	39.05
Selenastrum capricornutum	Growth	96 hours	0.142	0.200	4238000.00	1228000.00	Fail	Fail	71.02
Selenastrum capricornutum	Growth	96 hours	0.142	0.050	4238000.00	5593000.00	Pass	Pass	-31.97
Selenastrum capricornutum	Growth	96 hours	0.096	0.141	4238000.00	2783000.00	Fail	Fail	34.33
Selenastrum capricornutum	Growth	96 hours	0.096	0.096	4238000.00	4998000.00	Pass	Pass	-17.93
Selenastrum capricornutum	Growth	96 hours	0.096	0.000	4238000.00	5468000.00	Pass	Pass	-29.02
Selenastrum capricornutum	Growth	96 hours	0.096	0.050	4238000.00	5488000.00	Pass	Pass	-29.50
Selenastrum capricornutum	Growth	96 hours	0.096	0.337	4238000.00	5723000.00	Pass	Pass	-35.04
Ceriodaphnia dubia	Reproduction	6-8 day	0.100	0.000	31.10	27.70	Pass	Pass	10.93
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.200	31.10	34.10	Pass	Pass	-9.65
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.206	31.10	30.40	Pass	Pass	2.25
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.110	31.10	29.60	Pass	Pass	4.82
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.091	31.10	29.90	Pass	Pass	3.86
Pimephales promelas	Survival	7 day	0.000	0.050	80.00	80.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.096	80.00	87.50	Pass	Pass	-9.38
Pimephales promelas	Survival	7 day	0.000	0.000	80.00	80.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	80.00	77.50	Pass	Pass	3.13
Pimephales promelas	Survival	7 day	0.000	0.058	80.00	65.00	Fail	Pass	18.75
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	4670000.00	5105000.00	Pass	Pass	-9.31
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	4670000.00	5430000.00	Pass	Pass	-16.27
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	4670000.00	4905000.00	Pass	Pass	-5.03
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	4670000.00	5370000.00	Pass	Pass	-14.99
Selenastrum capricornutum	Growth	96 hours	0.150	0.082	4670000.00	5226666.67	Pass	Pass	-11.92

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	0.150	0.058	22.30	17.80	Fail	Pass	20.18
Ceriodaphnia dubia	Reproduction	6-8 day	0.150	0.096	28.63	34.75	Pass	Pass	-21.40
Ceriodaphnia dubia	Reproduction	6-8 day	0.150	0.082	28.63	30.50	Pass	Pass	-6.55
Selenastrum capricornutum	Growth	96 hours	0.150	0.050	6468000.00	6613000.00	Pass	Pass	-2.24
Selenastrum capricornutum	Growth	96 hours	0.150	0.000	6468000.00	5883000.00	Pass	Pass	9.04
Selenastrum capricornutum	Growth	96 hours	0.150	0.096	6468000.00	6128000.00	Pass	Pass	5.26
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	15.00	15.60	Pass	Pass	-4.00
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	15.00	21.40	Pass	Pass	-42.67
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	15.00	14.67	Pass	Pass	2.22
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.171	15.00	20.30	Pass	Pass	-35.33
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	15.00	17.00	Pass	Pass	-13.33
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	15.00	19.00	Pass	Pass	-26.67
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.150	15.00	21.80	Pass	Pass	-45.33
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.100	24.90	15.70	Fail	Fail	36.95
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.173	24.90	30.22	Pass	Pass	-21.37
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	24.90	24.60	Pass	Pass	1.20
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	24.90	23.22	Pass	Pass	6.74
Pimephales promelas	Survival	7 day	0.000	0.050	95.25	95.00	Pass	Pass	0.26
Pimephales promelas	Survival	7 day	0.000	0.000	95.25	95.00	Pass	Pass	0.26
Pimephales promelas	Survival	7 day	0.000	0.000	95.25	90.00	Pass	Pass	5.51
Pimephales promelas	Survival	7 day	0.000	0.000	95.25	85.00	Pass	Pass	10.76
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	4588000.00	4898000.00	Pass	Pass	-6.76
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	4588000.00	5368000.00	Pass	Pass	-17.00
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	4588000.00	5863000.00	Pass	Pass	-27.79
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	21.00	19.30	Pass	Pass	8.10
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	19.88	16.56	Fail	Pass	16.70
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	19.88	22.00	Pass	Pass	-10.69
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.058	19.88	27.44	Pass	Pass	-38.09
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	21.71	23.10	Pass	Pass	-6.38
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	21.71	20.60	Pass	Pass	5.13

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	21.71	21.90	Pass	Pass	-0.86
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	21.71	17.11	Fail	Pass	21.20
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	21.71	21.50	Pass	Pass	0.99
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.100	21.71	21.00	Pass	Pass	3.29
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	21.71	28.40	Pass	Pass	-30.79
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	21.71	25.80	Pass	Pass	-18.82
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	21.71	22.60	Pass	Pass	-4.08
Pimephales promelas	Survival	7 day	0.050	0.000	90.25	85.75	Pass	Pass	4.99
Pimephales promelas	Survival	7 day	0.000	0.000	90.25	85.00	Pass	Pass	5.82
Pimephales promelas	Survival	7 day	0.000	0.238	90.25	88.00	Pass	Pass	2.49
Pimephales promelas	Survival	7 day	0.000	0.000	90.25	90.00	Pass	Pass	0.28
Pimephales promelas	Survival	7 day	0.000	0.231	90.25	82.50	Pass	Pass	8.59
Pimephales promelas	Survival	7 day	0.046	0.169	90.25	88.50	Pass	Pass	1.94
Pimephales promelas	Survival	7 day	0.046	0.046	90.25	87.75	Pass	Pass	2.77
Pimephales promelas	Survival	7 day	0.046	0.295	90.25	95.00	Pass	Pass	-5.26
Pimephales promelas	Survival	7 day	0.046	0.096	90.25	87.75	Pass	Pass	2.77
Selenastrum capricornutum	Growth	96 hours	0.046	0.000	5310000.00	5665000.00	Pass	Pass	-6.69
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	5310000.00	5880000.00	Pass	Pass	-10.73
Selenastrum capricornutum	Growth	96 hours	0.000	0.386	5310000.00	3040000.00	Fail	Fail	42.75
Selenastrum capricornutum	Growth	96 hours	0.000	0.250	5310000.00	3140000.00	Fail	Fail	40.87
Selenastrum capricornutum	Growth	96 hours	0.000	0.157	5310000.00	4940000.00	Pass	Pass	6.97
Selenastrum capricornutum	Growth	96 hours	0.044	0.050	5310000.00	5670000.00	Pass	Pass	-6.78
Selenastrum capricornutum	Growth	96 hours	0.044	0.000	5310000.00	5250000.00	Pass	Pass	1.13
Selenastrum capricornutum	Growth	96 hours	0.044	0.000	5310000.00	5625000.00	Pass	Pass	-5.93
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	5310000.00	4260000.00	Pass	Fail	19.77
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	25.80	31.10	Pass	Pass	-20.54
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	25.80	32.30	Pass	Pass	-25.19
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	93.00	Pass	Pass	7.00
Pimephales promelas	Survival	7 day	0.000	0.050	100.00	95.00	Pass	Pass	5.00
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	4853000.00	2673000.00	Fail	Fail	44.92

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	4853000.00	5008000.00	Pass	Pass	-3.19
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	26.90	25.80	Pass	Pass	4.09
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	26.90	23.60	Pass	Pass	12.27
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	26.90	23.50	Pass	Pass	12.64
Pimephales promelas	Survival	7 day	0.000	0.050	92.50	100.00	Pass	Pass	-8.11
Pimephales promelas	Survival	7 day	0.000	0.096	92.50	97.50	Pass	Pass	-5.41
Pimephales promelas	Survival	7 day	0.058	0.050	92.50	97.50	Pass	Pass	-5.41
Selenastrum capricornutum	Growth	96 hours	0.058	0.050	5245000.00	6840000.00	Pass	Pass	-30.41
Selenastrum capricornutum	Growth	96 hours	0.058	0.050	5245000.00	6920000.00	Pass	Pass	-31.94
Selenastrum capricornutum	Growth	96 hours	0.058	0.000	5245000.00	6075000.00	Pass	Pass	-15.82
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.000	16.10	10.70	Fail	Fail	33.54
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	22.13	21.56	Pass	Pass	2.57
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	21.50	13.10	Fail	Fail	39.07
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	21.50	18.80	Pass	Pass	12.56
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	21.50	13.44	Fail	Fail	37.47
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	21.10	21.70	Pass	Pass	-2.84
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	21.10	22.00	Pass	Pass	-4.27
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.050	21.10	20.50	Pass	Pass	2.84
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.050	21.10	18.80	Pass	Pass	10.90
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.050	21.10	21.89	Pass	Pass	-3.74
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	21.67	17.63	Fail	Pass	18.65
Ceriodaphnia dubia	Reproduction	6-8 day	0.052	0.096	21.67	20.20	Pass	Pass	6.77
Ceriodaphnia dubia	Reproduction	6-8 day	0.052	0.082	21.67	13.10	Fail	Fail	39.54
Ceriodaphnia dubia	Reproduction	6-8 day	0.052	0.379	21.67	18.33	Pass	Pass	15.38
Selenastrum capricornutum	Growth	96 hours	0.052	0.000	6358000.00	5833000.00	Pass	Fail	8.26
Pimephales promelas	Survival	7 day	0.071	0.050	100.00	95.00	Pass	Pass	5.00
Ceriodaphnia dubia	Reproduction	6-8 day	0.071	0.141	26.38	28.13	Pass	Pass	-6.64
Ceriodaphnia dubia	Reproduction	6-8 day	0.071	0.050	26.38	21.63	Pass	Fail	18.01
Ceriodaphnia dubia	Reproduction	6-8 day	0.035	0.000	23.20	25.10	Pass	Pass	-8.19
Ceriodaphnia dubia	Reproduction	6-8 day	0.035	0.096	23.20	22.70	Pass	Pass	2.16

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	0.035	0.000	23.20	26.11	Pass	Pass	-12.55
Ceriodaphnia dubia	Reproduction	6-8 day	0.035	0.050	23.20	26.50	Pass	Pass	-14.22
Ceriodaphnia dubia	Reproduction	6-8 day	0.049	0.050	23.20	28.20	Pass	Pass	-21.55
Selenastrum capricornutum	Growth	96 hours	0.049	0.050	7598000.00	6668000.00	Pass	Pass	12.24
Selenastrum capricornutum	Growth	96 hours	0.049	0.050	7598000.00	4933000.00	Fail	Fail	35.08
Ceriodaphnia dubia	Reproduction	6-8 day	0.053	0.100	29.00	38.20	Pass	Pass	-31.72
Ceriodaphnia dubia	Reproduction	6-8 day	0.053	0.050	29.00	32.10	Pass	Pass	-10.69
Ceriodaphnia dubia	Reproduction	6-8 day	0.053	0.050	29.00	34.30	Pass	Pass	-18.28
Ceriodaphnia dubia	Reproduction	6-8 day	0.053	0.050	29.00	30.22	Pass	Pass	-4.21
Pimephales promelas	Survival	7 day	0.053	0.058	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	0.053	0.000	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Survival	7 day	0.064	0.058	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.064	0.082	97.50	95.00	Pass	Pass	2.56
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	5478000.00	5813000.00	Pass	Pass	-6.12
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	5478000.00	5968000.00	Pass	Pass	-8.94
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	5478000.00	6633000.00	Pass	Pass	-21.08
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	5478000.00	6018000.00	Pass	Pass	-9.86
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	21.30	24.43	Pass	Pass	-14.69
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	21.30	23.63	Pass	Pass	-10.92
Selenastrum capricornutum	Growth	96 hours	0.050	0.050	4863000.00	3458000.00	Fail	Fail	28.89
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	24.67	13.50	Fail	Fail	45.27
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	24.67	15.11	Fail	Fail	38.74
Pimephales promelas	Survival	7 day	0.000	0.058	97.50	94.75	Pass	Pass	2.82
Pimephales promelas	Survival	7 day	0.150	0.093	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Survival	7 day	0.150	0.058	97.50	100.00	Pass	Pass	-2.56
Selenastrum capricornutum	Growth	96 hours	0.150	0.058	4805000.00	6310000.00	Pass	Pass	-31.32
Selenastrum capricornutum	Growth	96 hours	0.052	0.144	4805000.00	5635000.00	Pass	Pass	-17.27
Selenastrum capricornutum	Growth	96 hours	0.052	0.115	4805000.00	5130000.00	Pass	Pass	-6.76
Selenastrum capricornutum	Growth	96 hours	0.052	0.050	4805000.00	3655000.00	Fail	Fail	23.93
Selenastrum capricornutum	Growth	96 hours	0.050	0.141	4805000.00	5285000.00	Pass	Pass	-9.99

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	0.046	0.050	20.00	31.00	Pass	Pass	-55.00
Ceriodaphnia dubia	Reproduction	6-8 day	0.046	0.050	20.00	23.80	Pass	Pass	-19.00
Ceriodaphnia dubia	Reproduction	6-8 day	0.046	0.050	20.00	26.00	Pass	Pass	-30.00
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.096	20.00	35.10	Pass	Pass	-75.50
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.050	20.00	14.50	Fail	Pass	27.50
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	20.00	16.00	Fail	Pass	20.00
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	20.00	25.40	Pass	Pass	-27.00
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	20.00	25.71	Pass	Pass	-28.57
Pimephales promelas	Survival	7 day	0.000	0.050	95.00	87.75	Pass	Pass	7.63
Pimephales promelas	Survival	7 day	0.000	0.000	95.00	95.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	95.00	97.50	Pass	Pass	-2.63
Pimephales promelas	Survival	7 day	0.000	0.000	95.00	87.50	Pass	Pass	7.89
Pimephales promelas	Survival	7 day	0.000	0.050	95.00	87.50	Pass	Pass	7.89
Pimephales promelas	Survival	7 day	0.050	0.096	95.00	80.00	Fail	Pass	15.79
Pimephales promelas	Survival	7 day	0.050	0.000	95.00	90.00	Pass	Pass	5.26
Pimephales promelas	Survival	7 day	0.000	0.050	95.00	92.50	Pass	Pass	2.63
Selenastrum capricornutum	Growth	96 hours	0.050	0.000	6155000.00	5635000.00	Pass	Pass	8.45
Selenastrum capricornutum	Growth	96 hours	0.050	0.000	6155000.00	7135000.00	Pass	Pass	-15.92
Selenastrum capricornutum	Growth	96 hours	0.046	0.000	6155000.00	6495000.00	Pass	Pass	-5.52
Selenastrum capricornutum	Growth	96 hours	0.046	0.000	6155000.00	7245000.00	Pass	Pass	-17.71
Selenastrum capricornutum	Growth	96 hours	0.074	0.050	6155000.00	3420000.00	Fail	Fail	44.44
Selenastrum capricornutum	Growth	96 hours	0.074	0.337	6155000.00	4715000.00	Fail	Fail	23.40
Selenastrum capricornutum	Growth	96 hours	0.074	0.050	6155000.00	6405000.00	Pass	Pass	-4.06
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	22.30	26.40	Pass	Pass	-18.39
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	22.30	32.70	Pass	Pass	-46.64
Pimephales promelas	Survival	7 day	0.000	0.212	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	0.000	0.050	97.50	100.00	Pass	Pass	-2.56
Selenastrum capricornutum	Growth	96 hours	0.058	0.183	6010000.00	6685000.00	Pass	Pass	-11.23
Selenastrum capricornutum	Growth	96 hours	0.058	0.050	6010000.00	6300000.00	Pass	Pass	-4.83
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.000	26.80	27.30	Pass	Pass	-1.87

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.000	26.80	26.00	Pass	Pass	2.99
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.000	26.80	26.60	Pass	Pass	0.75
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.000	26.80	26.11	Pass	Pass	2.57
Pimephales promelas	Survival	7 day	0.058	0.000	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Survival	7 day	0.050	0.551	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.050	0.058	97.50	85.00	Pass	Pass	12.82
Pimephales promelas	Survival	7 day	0.050	0.306	97.50	95.00	Pass	Pass	2.56
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.208	27.40	25.50	Pass	Pass	6.93
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.173	27.40	27.20	Pass	Pass	0.73
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.115	27.40	26.90	Pass	Pass	1.82
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.100	27.40	25.00	Pass	Pass	8.76
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.100	27.40	27.25	Pass	Pass	0.55
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.115	27.40	27.20	Pass	Pass	0.73
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.153	27.40	29.00	Pass	Pass	-5.84
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.064	27.40	27.80	Pass	Pass	-1.46
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	27.40	22.90	Fail	Pass	16.42
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.265	27.40	29.00	Pass	Pass	-5.84
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	27.40	20.44	Fail	Fail	25.39
Pimephales promelas	Survival	7 day	0.050	0.100	95.00	82.50	Pass	Pass	13.16
Pimephales promelas	Survival	7 day	0.000	0.058	95.00	77.50	Fail	Pass	18.42
Pimephales promelas	Survival	7 day	0.000	0.000	95.00	97.50	Pass	Pass	-2.63
Pimephales promelas	Survival	7 day	0.000	0.173	95.00	92.50	Pass	Pass	2.63
Pimephales promelas	Survival	7 day	0.000	0.061	95.00	95.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.061	95.00	100.00	Pass	Pass	-5.26
Pimephales promelas	Survival	7 day	0.000	0.000	95.00	95.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.034	95.00	92.00	Pass	Pass	3.16
Pimephales promelas	Survival	7 day	0.000	0.061	95.00	90.00	Pass	Pass	5.26
Pimephales promelas	Survival	7 day	0.050	0.000	95.00	85.00	Pass	Pass	10.53
Pimephales promelas	Survival	7 day	0.050	0.000	95.00	97.25	Pass	Pass	-2.37
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.058	19.30	28.10	Pass	Pass	-45.60

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.000	19.30	32.50	Pass	Pass	-68.39
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.126	19.30	27.22	Pass	Pass	-41.05
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.082	19.30	26.50	Pass	Pass	-37.31
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.047	19.30	18.40	Pass	Pass	4.66
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.157	19.30	30.88	Pass	Pass	-59.97
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.047	19.30	33.57	Pass	Pass	-73.95
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.115	19.30	28.44	Pass	Pass	-47.38
Pimephales promelas	Survival	7 day	0.050	0.091	93.33	96.67	Pass	Pass	-3.57
Pimephales promelas	Survival	7 day	0.091	0.082	93.33	100.00	Pass	Pass	-7.14
Pimephales promelas	Survival	7 day	0.091	0.082	93.33	96.67	Pass	Pass	-3.57
Pimephales promelas	Survival	7 day	0.055	0.173	93.33	96.67	Pass	Pass	-3.57
Pimephales promelas	Survival	7 day	0.055	0.173	93.33	96.67	Pass	Pass	-3.57
Pimephales promelas	Survival	7 day	0.055	0.116	93.33	93.33	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.055	0.136	93.33	100.00	Pass	Pass	-7.14
Pimephales promelas	Survival	7 day	0.055	0.063	93.33	96.67	Pass	Pass	-3.57
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	17.90	25.67	Pass	Pass	-43.39
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.050	17.90	15.30	Fail	Pass	14.53
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.330	17.90	20.70	Pass	Pass	-15.64
Pimephales promelas	Survival	7 day	0.050	0.000	95.00	97.50	Pass	Pass	-2.63
Pimephales promelas	Survival	7 day	0.050	0.050	95.00	97.25	Pass	Pass	-2.37
Pimephales promelas	Survival	7 day	0.050	0.050	95.00	100.00	Pass	Pass	-5.26
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.100	17.00	39.38	Pass	Pass	-131.62
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.096	17.00	41.00	Pass	Pass	-141.18
Pimephales promelas	Survival	7 day	0.050	0.189	100.00	92.50	Pass	Pass	7.50
Pimephales promelas	Survival	7 day	0.050	0.129	100.00	85.00	Fail	Pass	15.00
Pimephales promelas	Survival	7 day	0.000	0.050	100.00	97.50	Pass	Pass	2.50
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	16.10	23.80	Pass	Pass	-47.83
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.125	16.10	27.11	Pass	Pass	-68.39
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.222	16.10	26.50	Pass	Pass	-64.60
Pimephales promelas	Survival	7 day	0.050	0.058	96.67	40.00	Fail	Fail	58.62

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	0.050	0.111	96.67	96.67	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.050	0.061	96.67	100.00	Pass	Pass	-3.45
Pimephales promelas	Survival	7 day	0.000	0.222	96.67	100.00	Pass	Pass	-3.45
Pimephales promelas	Survival	7 day	0.000	0.129	96.67	96.67	Pass	Pass	0.00
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.000	16.10	38.60	Pass	Pass	-139.75
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.245	16.10	44.00	Pass	Pass	-173.29
Pimephales promelas	Survival	7 day	0.050	0.141	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.050	0.169	100.00	92.50	Pass	Pass	7.50
Pimephales promelas	Survival	7 day	0.050	0.191	100.00	97.50	Pass	Pass	2.50
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.058	19.20	20.20	Pass	Pass	-5.21
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.056	19.20	22.10	Pass	Pass	-15.10
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.330	19.20	24.40	Pass	Pass	-27.08
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.216	18.10	23.44	Pass	Pass	-29.53
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	18.10	12.11	Fail	Fail	33.09
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	18.10	9.78	Fail	Fail	45.98
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.115	18.10	9.78	Fail	Fail	45.98
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.238	18.10	21.50	Pass	Pass	-18.78
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.287	18.10	25.22	Pass	Pass	-39.35
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.263	18.10	22.33	Pass	Pass	-23.39
Selenastrum capricornutum	Growth	96 hours	0.000	0.359	4878000.00	2388000.00	Fail	Fail	51.05
Selenastrum capricornutum	Growth	96 hours	0.150	0.183	4878000.00	4348000.00	Pass	Pass	10.87
Selenastrum capricornutum	Growth	96 hours	0.150	0.129	4878000.00	1733000.00	Fail	Pass	64.47
Selenastrum capricornutum	Growth	96 hours	0.000	0.206	4878000.00	3903000.00	Pass	Fail	19.99
Selenastrum capricornutum	Growth	96 hours	0.000	0.115	4878000.00	4323000.00	Pass	Pass	11.38
Selenastrum capricornutum	Growth	96 hours	0.000	0.096	4878000.00	3033000.00	Fail	Fail	37.82
Selenastrum capricornutum	Growth	96 hours	0.000	0.150	4878000.00	3223000.00	Fail	Fail	33.93
Selenastrum capricornutum	Growth	96 hours	0.000	0.096	4878000.00	5568000.00	Pass	Pass	-14.15
Selenastrum capricornutum	Growth	96 hours	0.189	0.129	4878000.00	3718000.00	Fail	Fail	23.78
Selenastrum capricornutum	Growth	96 hours	0.189	0.275	4878000.00	4538000.00	Pass	Pass	6.97
Ceriodaphnia dubia	Reproduction	6-8 day	0.046	0.129	16.30	31.80	Pass	Pass	-95.09

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	0.046	0.096	34.40	27.20	Fail	Fail	20.93
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.050	34.40	30.90	Pass	Pass	10.17
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.226	34.40	33.40	Pass	Pass	2.91
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	34.40	34.56	Pass	Pass	-0.45
Pimephales promelas	Survival	7 day	0.000	0.100	95.00	70.00	Fail	Fail	26.32
Pimephales promelas	Survival	7 day	0.000	0.050	95.00	80.00	Fail	Pass	15.79
Pimephales promelas	Survival	7 day	0.000	0.096	95.00	85.00	Pass	Pass	10.53
Pimephales promelas	Survival	7 day	0.000	0.058	95.00	90.00	Pass	Pass	5.26
Pimephales promelas	Survival	7 day	0.000	0.171	95.00	75.00	Fail	Fail	21.05
Pimephales promelas	Survival	7 day	0.000	0.115	95.00	95.00	Pass	Pass	0.00
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.211	25.50	21.70	Pass	Fail	14.90
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.082	25.50	27.90	Pass	Pass	-9.41
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.219	25.50	22.30	Pass	Fail	12.55
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.061	25.50	27.30	Pass	Pass	-7.06
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.129	25.50	26.50	Pass	Pass	-3.92
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.096	25.50	21.70	Pass	Pass	14.90
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.206	25.50	22.33	Pass	Fail	12.42
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.050	25.50	23.20	Pass	Pass	9.02
Selenastrum capricornutum	Growth	96 hours	0.050	0.050	4753000.00	3193000.00	Fail	Fail	32.82
Selenastrum capricornutum	Growth	96 hours	0.000	0.142	4753000.00	1938000.00	Fail	Fail	59.23
Selenastrum capricornutum	Growth	96 hours	0.000	0.263	4753000.00	2253000.00	Fail	Fail	52.60
Selenastrum capricornutum	Growth	96 hours	0.050	0.115	4753000.00	2873000.00	Fail	Fail	39.55
Selenastrum capricornutum	Growth	96 hours	0.050	0.050	4753000.00	3008000.00	Fail	Fail	36.71
Selenastrum capricornutum	Growth	96 hours	0.050	0.050	4753000.00	3798000.00	Fail	Pass	20.09
Selenastrum capricornutum	Growth	96 hours	0.050	0.111	4753000.00	3693000.00	Fail	Fail	22.30
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.052	23.20	27.30	Pass	Pass	-17.67
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.050	23.20	28.40	Pass	Pass	-22.41
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.056	23.20	28.10	Pass	Pass	-21.12
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.419	23.20	24.30	Pass	Pass	-4.74
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.263	23.20	28.50	Pass	Pass	-22.84

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.250	23.20	31.40	Pass	Pass	-35.34
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.400	23.20	28.20	Pass	Pass	-21.55
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.263	23.20	34.40	Pass	Pass	-48.28
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.082	23.20	25.89	Pass	Pass	-11.59
Pimephales promelas	Survival	7 day	0.050	0.107	89.50	62.00	Fail	Pass	30.73
Pimephales promelas	Survival	7 day	0.046	0.492	89.50	79.25	Pass	Fail	11.45
Pimephales promelas	Survival	7 day	0.046	0.395	89.50	57.50	Fail	Pass	35.75
Pimephales promelas	Survival	7 day	0.046	0.223	89.50	64.50	Fail	Pass	27.93
Pimephales promelas	Survival	7 day	0.046	0.050	89.50	75.75	Pass	Pass	15.36
Pimephales promelas	Survival	7 day	0.050	0.141	89.50	75.00	Pass	Pass	16.20
Pimephales promelas	Survival	7 day	0.050	0.050	89.50	100.00	Pass	Pass	-11.73
Pimephales promelas	Survival	7 day	0.050	0.098	89.50	75.75	Pass	Pass	15.36
Pimephales promelas	Survival	7 day	0.050	0.050	89.50	55.00	Fail	Pass	38.55
Selenastrum capricornutum	Growth	96 hours	0.050	0.000	6198000.00	5548000.00	Pass	Fail	10.49
Selenastrum capricornutum	Growth	96 hours	0.000	0.206	6198000.00	6433000.00	Pass	Pass	-3.79
Selenastrum capricornutum	Growth	96 hours	0.000	0.283	6198000.00	3988000.00	Fail	Fail	35.66
Selenastrum capricornutum	Growth	96 hours	0.000	0.112	6198000.00	5908000.00	Pass	Pass	4.68
Selenastrum capricornutum	Growth	96 hours	0.000	0.095	6198000.00	5748000.00	Pass	Pass	7.26
Selenastrum capricornutum	Growth	96 hours	0.000	0.128	6198000.00	2053000.00	Fail	Fail	66.88
Selenastrum capricornutum	Growth	96 hours	0.050	0.175	6198000.00	3988000.00	Fail	Fail	35.66
Selenastrum capricornutum	Growth	96 hours	0.050	0.108	6198000.00	5458000.00	Pass	Fail	11.94
Selenastrum capricornutum	Growth	96 hours	0.050	0.050	6198000.00	5718000.00	Pass	Pass	7.74
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.105	23.20	23.00	Pass	Pass	0.86
Selenastrum capricornutum	Growth	96 hours	0.050	0.189	5270000.00	3890000.00	Fail	Fail	26.19
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.115	23.10	17.00	Fail	Fail	26.41
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	23.10	24.56	Pass	Pass	-6.30
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.111	23.10	23.60	Pass	Pass	-2.16
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.048	23.10	18.00	Fail	Fail	22.08
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.098	23.10	21.30	Pass	Pass	7.79
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.408	23.10	23.40	Pass	Pass	-1.30

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.222	23.10	22.89	Pass	Pass	0.91
Selenastrum capricornutum	Growth	96 hours	0.000	0.332	4805000.00	4870000.00	Pass	Pass	-1.35
Selenastrum capricornutum	Growth	96 hours	0.000	0.318	4805000.00	5630000.00	Pass	Pass	-17.17
Selenastrum capricornutum	Growth	96 hours	0.058	0.440	4805000.00	5530000.00	Pass	Pass	-15.09
Selenastrum capricornutum	Growth	96 hours	0.058	0.183	4805000.00	5955000.00	Pass	Pass	-23.93
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.222	18.20	21.60	Pass	Pass	-18.68
Ceriodaphnia dubia	Reproduction	6-8 day	0.058	0.370	18.20	16.88	Pass	Pass	7.28
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.300	18.20	12.40	Fail	Fail	31.87
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.150	18.20	21.30	Pass	Pass	-17.03
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.129	18.20	18.90	Pass	Pass	-3.85
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.239	18.20	12.00	Fail	Fail	34.07
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.150	18.20	9.40	Fail	Fail	48.35
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.056	18.20	7.25	Fail	Fail	60.16
Selenastrum capricornutum	Growth	96 hours	0.000	0.055	6285000.00	5533333.33	Pass	Pass	11.96
Selenastrum capricornutum	Growth	96 hours	0.000	0.337	6285000.00	4240000.00	Fail	Fail	32.54
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	6285000.00	4920000.00	Fail	Fail	21.72
Selenastrum capricornutum	Growth	96 hours	0.000	0.294	6285000.00	3960000.00	Fail	Fail	36.99
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.061	28.89	31.80	Pass	Pass	-10.08
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.265	28.89	27.67	Pass	Pass	4.23
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.226	28.89	27.40	Pass	Pass	5.15
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.055	28.89	29.60	Pass	Pass	-2.46
Ceriodaphnia dubia	Reproduction	6-8 day	0.061	0.097	28.89	28.60	Pass	Pass	1.00
Ceriodaphnia dubia	Reproduction	6-8 day	0.061	0.121	28.89	30.10	Pass	Pass	-4.19
Pimephales promelas	Survival	7 day	0.061	0.091	95.00	90.00	Pass	Pass	5.26
Pimephales promelas	Survival	7 day	0.061	0.125	95.00	77.50	Fail	Pass	18.42
Pimephales promelas	Survival	7 day	0.061	0.055	95.00	100.00	Pass	Pass	-5.26
Pimephales promelas	Survival	7 day	0.059	0.276	95.00	95.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.059	0.140	95.00	90.00	Pass	Pass	5.26
Pimephales promelas	Survival	7 day	0.059	0.126	95.00	95.25	Pass	Pass	-0.26
Pimephales promelas	Survival	7 day	0.059	0.066	95.00	92.50	Pass	Pass	2.63

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	0.059	0.059	95.00	72.50	Fail	Pass	23.68
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.145	22.63	28.20	Pass	Pass	-24.64
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.118	22.63	28.00	Pass	Pass	-23.76
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.096	22.63	25.70	Pass	Pass	-13.59
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.091	22.63	18.00	Fail	Pass	20.44
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.100	22.63	32.78	Pass	Pass	-44.87
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.096	22.63	33.30	Pass	Pass	-47.18
Pimephales promelas	Survival	7 day	0.000	0.056	89.75	87.50	Pass	Pass	2.51
Pimephales promelas	Survival	7 day	0.000	0.105	89.75	77.50	Fail	Pass	13.65
Pimephales promelas	Survival	7 day	0.000	0.093	89.75	60.00	Fail	Pass	33.15
Pimephales promelas	Survival	7 day	0.000	0.000	89.75	87.50	Pass	Pass	2.51
Pimephales promelas	Survival	7 day	0.000	0.000	89.75	90.00	Pass	Pass	-0.28
Pimephales promelas	Survival	7 day	0.000	0.147	89.75	97.50	Pass	Pass	-8.64
Selenastrum capricornutum	Growth	96 hours	0.000	0.237	6073000.00	5503000.00	Pass	Pass	9.39
Selenastrum capricornutum	Growth	96 hours	0.000	0.058	6073000.00	6088000.00	Pass	Pass	-0.25
Selenastrum capricornutum	Growth	96 hours	0.000	0.056	6073000.00	5503000.00	Pass	Pass	9.39
Selenastrum capricornutum	Growth	96 hours	0.050	0.129	6073000.00	4428000.00	Fail	Fail	27.09
Selenastrum capricornutum	Growth	96 hours	0.050	0.050	6073000.00	2443000.00	Fail	Fail	59.77
Selenastrum capricornutum	Growth	96 hours	0.050	0.096	6073000.00	3178000.00	Fail	Fail	47.67
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.058	25.80	18.70	Fail	Fail	27.52
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.050	25.80	8.80	Fail	Fail	65.89
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.096	25.80	14.75	Fail	Fail	42.83
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.058	25.80	14.10	Fail	Fail	45.35
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.058	25.80	9.50	Fail	Fail	63.18
Pimephales promelas	Survival	7 day	0.050	0.141	87.50	90.00	Pass	Pass	-2.86
Pimephales promelas	Survival	7 day	0.050	0.050	87.50	92.50	Pass	Pass	-5.71
Pimephales promelas	Survival	7 day	0.189	0.050	87.50	100.00	Pass	Pass	-14.29
Pimephales promelas	Survival	7 day	0.189	0.058	87.50	97.50	Pass	Pass	-11.43
Pimephales promelas	Survival	7 day	0.189	0.250	87.50	60.00	Fail	Pass	31.43
Ceriodaphnia dubia	Reproduction	6-8 day	0.189	0.096	17.63	19.60	Pass	Pass	-11.21

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	0.189	0.115	95.00	100.00	Pass	Pass	-5.26
Ceriodaphnia dubia	Reproduction	6-8 day	0.189	0.238	20.89	26.60	Pass	Pass	-27.34
Ceriodaphnia dubia	Reproduction	6-8 day	0.189	0.096	20.89	25.00	Pass	Pass	-19.68
Pimephales promelas	Survival	7 day	0.050	0.050	97.50	90.00	Pass	Pass	7.69
Pimephales promelas	Survival	7 day	0.050	0.050	97.50	82.50	Fail	Pass	15.38
Pimephales promelas	Survival	7 day	0.050	0.058	97.50	90.50	Pass	Pass	7.18
Pimephales promelas	Survival	7 day	0.050	0.050	97.50	78.75	Fail	Fail	19.23
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.050	31.25	24.57	Fail	Fail	21.37
Ceriodaphnia dubia	Reproduction	6-8 day	0.050	0.058	31.25	35.80	Pass	Pass	-14.56
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.058	31.25	33.30	Pass	Pass	-6.56
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.058	31.25	33.00	Pass	Pass	-5.60
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.058	31.25	32.10	Pass	Pass	-2.72
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.050	31.25	30.78	Pass	Pass	1.51
Ceriodaphnia dubia	Reproduction	6-8 day	0.000	0.058	31.25	34.10	Pass	Pass	-9.12
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	697200.00	5711850.00	Pass	Pass	-719.26
Selenastrum capricornutum	Growth	96 hours	0.000	0.058	697200.00	225600.00	Fail	Fail	67.64
Selenastrum capricornutum	Growth	96 hours	0.000	0.171	697200.00	5746325.00	Pass	Pass	-724.20
Selenastrum capricornutum	Growth	96 hours	0.000	0.058	697200.00	167350.00	Fail	Fail	76.00
Selenastrum capricornutum	Growth	96 hours	0.000	0.058	896350.00	2709700.00	Pass	Pass	-202.30
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	896350.00	3128650.00	Pass	Pass	-249.04
Selenastrum capricornutum	Growth	96 hours	0.000	0.150	896350.00	2131725.00	Pass	Pass	-137.82
Selenastrum capricornutum	Growth	96 hours	0.000	0.058	896350.00	3296825.00	Pass	Pass	-267.81
Selenastrum capricornutum	Growth	96 hours	0.100	0.058	2416000.00	5187175.00	Pass	Pass	-114.70
Selenastrum capricornutum	Growth	96 hours	0.100	0.058	2416000.00	210125.00	Fail	Fail	91.30
Selenastrum capricornutum	Growth	96 hours	0.100	0.058	2416000.00	5474825.00	Pass	Pass	-126.61
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	2416000.00	5873675.00	Pass	Pass	-143.12
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	4722800.00	7370025.00	Pass	Pass	-56.05
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	4722800.00	3867975.00	Pass	Fail	18.10
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	4722800.00	6814225.00	Pass	Pass	-44.28
Selenastrum capricornutum	Growth	96 hours	0.000	0.058	4722800.00	2514250.00	Fail	Fail	46.76

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	0.000	0.056	4722800.00	4214375.00	Pass	Fail	10.77
Selenastrum capricornutum	Growth	96 hours	0.000	0.056	3690950.00	3549750.00	Pass	Pass	3.83
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	3690950.00	388750.00	Fail	Fail	89.47
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	3690950.00	4068250.00	Pass	Pass	-10.22
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	3690950.00	249325.00	Fail	Fail	93.24
Selenastrum capricornutum	Growth	96 hours	0.000	0.050	3243700.00	1742425.00	Fail	Fail	46.28
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	4169475.00	499725.00	Fail	Fail	88.01
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	4169475.00	321200.00	Fail	Fail	92.30
Selenastrum capricornutum	Growth	96 hours	0.000	0.000	1439600.00	1860950.00	Pass	Pass	-29.27
Selenastrum capricornutum	Growth	96 hours	0.050	0.000	2629375.00	2809975.00	Pass	Pass	-6.87
Selenastrum capricornutum	Growth	96 hours	0.050	0.000	286825.00	882000.00	Pass	Pass	-207.50
Selenastrum capricornutum	Growth	96 hours	0.050	0.000	286825.00	2355475.00	Pass	Pass	-721.22
Selenastrum capricornutum	Growth	96 hours	0.050	0.000	286825.00	1100150.00	Pass	Pass	-283.56
Selenastrum capricornutum	Growth	96 hours	28112.794	72596.074	286825.00	1029750.00	Pass	Pass	-259.02
Selenastrum capricornutum	Growth	96 hours	29141.665	139220.721	320250.00	3063725.00	Pass	Pass	-856.67
Selenastrum capricornutum	Growth	96 hours	29141.665	373049.309	320250.00	2843100.00	Pass	Pass	-787.78
Selenastrum capricornutum	Growth	96 hours	29141.665	48791.085	320250.00	3133550.00	Pass	Pass	-878.47
Selenastrum capricornutum	Growth	96 hours	29141.665	412974.974	320250.00	2740625.00	Pass	Pass	-755.78
Selenastrum capricornutum	Growth	96 hours	15615.457	330900.700	260625.00	3015700.00	Pass	Pass	-1057.10
Selenastrum capricornutum	Growth	96 hours	15615.457	171215.157	260625.00	4013850.00	Pass	Pass	-1440.09
Selenastrum capricornutum	Growth	96 hours	15615.457	57802.847	260625.00	765075.00	Pass	Pass	-193.55
Selenastrum capricornutum	Growth	96 hours	15615.457	148247.504	260625.00	3717425.00	Pass	Pass	-1326.35
Selenastrum capricornutum	Growth	96 hours	15615.457	435255.246	260625.00	2808725.00	Pass	Pass	-977.69
Selenastrum capricornutum	Growth	96 hours	27005.108	112796.110	368125.00	5623375.00	Pass	Pass	-1427.57
Selenastrum capricornutum	Growth	96 hours	27005.108	174251.377	368125.00	5867575.00	Pass	Pass	-1493.91
Selenastrum capricornutum	Growth	96 hours	27005.108	280249.869	368125.00	5752425.00	Pass	Pass	-1462.63
Selenastrum capricornutum	Growth	96 hours	20459.126	252779.601	270525.00	4260000.00	Pass	Pass	-1474.72
Selenastrum capricornutum	Growth	96 hours	20459.126	174230.104	270525.00	4388525.00	Pass	Pass	-1522.23
Selenastrum capricornutum	Growth	96 hours	20459.126	275439.472	270525.00	4521125.00	Pass	Pass	-1571.24
Selenastrum capricornutum	Growth	96 hours	20459.126	208816.546	270525.00	3164450.00	Pass	Pass	-1069.74

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	20459.126	199322.576	270525.00	4405075.00	Pass	Pass	-1528.34
Selenastrum capricornutum	Growth	96 hours	12798.177	191203.286	252500.00	4810850.00	Pass	Pass	-1805.29
Selenastrum capricornutum	Growth	96 hours	12798.177	191521.267	252500.00	4978525.00	Pass	Pass	-1871.69
Selenastrum capricornutum	Growth	96 hours	52651.876	506989.299	333400.00	5160475.00	Pass	Pass	-1447.83
Selenastrum capricornutum	Growth	96 hours	52651.876	523695.443	333400.00	4843450.00	Pass	Pass	-1352.74
Selenastrum capricornutum	Growth	96 hours	52651.876	160860.447	333400.00	4833950.00	Pass	Pass	-1349.90
Selenastrum capricornutum	Growth	96 hours	52651.876	268150.443	333400.00	4558000.00	Pass	Pass	-1267.13
Selenastrum capricornutum	Growth	96 hours	27532.935	198462.161	361575.00	1793425.00	Pass	Pass	-396.00
Selenastrum capricornutum	Growth	96 hours	27532.935	160688.796	361575.00	3750175.00	Pass	Pass	-937.18
Selenastrum capricornutum	Growth	96 hours	27532.935	570047.269	361575.00	3345575.00	Pass	Pass	-825.28
Selenastrum capricornutum	Growth	96 hours	27532.935	316029.876	361575.00	3947525.00	Pass	Pass	-991.76
Selenastrum capricornutum	Growth	96 hours	25977.089	369228.451	270925.00	3640475.00	Pass	Pass	-1243.72
Selenastrum capricornutum	Growth	96 hours	25977.089	270119.042	270925.00	4532950.00	Pass	Pass	-1573.14
Selenastrum capricornutum	Growth	96 hours	25977.089	217610.600	270925.00	3785400.00	Pass	Pass	-1297.21
Selenastrum capricornutum	Growth	96 hours	25977.089	386787.159	270925.00	4226900.00	Pass	Pass	-1460.17
Selenastrum capricornutum	Growth	96 hours	26422.276	85724.807	337250.00	3768175.00	Pass	Pass	-1017.32
Selenastrum capricornutum	Growth	96 hours	26422.276	261658.518	337250.00	4523000.00	Pass	Pass	-1241.14
Selenastrum capricornutum	Growth	96 hours	26422.276	201216.821	337250.00	3857575.00	Pass	Pass	-1043.83
Selenastrum capricornutum	Growth	96 hours	26422.276	384748.605	337250.00	3224875.00	Pass	Pass	-856.23
Selenastrum capricornutum	Growth	96 hours	26422.276	317840.750	337250.00	4639675.00	Pass	Pass	-1275.74
Selenastrum capricornutum	Growth	96 hours	33222.420	173753.293	599225.00	5231600.00	Pass	Pass	-773.06
Selenastrum capricornutum	Growth	96 hours	33222.420	193437.234	599225.00	5203350.00	Pass	Pass	-768.35
Selenastrum capricornutum	Growth	96 hours	33222.420	111850.913	599225.00	1130700.00	Pass	Pass	-88.69
Selenastrum capricornutum	Growth	96 hours	67685.081	435592.634	755273.00	1963434.50	Pass	Pass	-159.96
Selenastrum capricornutum	Growth	96 hours	97323.391	432099.775	1142175.00	7910775.00	Pass	Pass	-592.61
Selenastrum capricornutum	Growth	96 hours	97323.391	293567.452	1142175.00	7159875.00	Pass	Pass	-526.86
Selenastrum capricornutum	Growth	96 hours	97323.391	251558.694	1142175.00	7204350.00	Pass	Pass	-530.76
Selenastrum capricornutum	Growth	96 hours	97323.391	190213.222	1142175.00	7434650.00	Pass	Pass	-550.92
Selenastrum capricornutum	Growth	96 hours	62665.355	134667.328	621100.00	5714525.00	Pass	Pass	-820.07
Selenastrum capricornutum	Growth	96 hours	203542.565	667628.245	3019625.00	7499000.00	Pass	Pass	-148.34

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Selenastrum capricornutum	Growth	96 hours	203542.565	93053.766	3019625.00	7398350.00	Pass	Pass	-145.01
Selenastrum capricornutum	Growth	96 hours	203542.565	388341.073	3019625.00	6199225.00	Pass	Pass	-105.30
Selenastrum capricornutum	Growth	96 hours	203542.565	57298.778	3019625.00	7051750.00	Pass	Pass	-133.53
Selenastrum capricornutum	Growth	96 hours	136002.901	7301.370	1277675.00	40750.00	Fail	Fail	96.81
Selenastrum capricornutum	Growth	96 hours	136002.901	105658.897	1277675.00	4667575.00	Pass	Pass	-265.32
Selenastrum capricornutum	Growth	96 hours	136002.901	56895.050	1277675.00	5254200.00	Pass	Pass	-311.23
Selenastrum capricornutum	Growth	96 hours	136002.901	105734.648	1277675.00	6122825.00	Pass	Pass	-379.22
Selenastrum capricornutum	Growth	96 hours	136002.901	192801.971	1277675.00	5228200.00	Pass	Pass	-309.20
Selenastrum capricornutum	Growth	96 hours	67800.707	132370.802	1101375.00	3560025.00	Pass	Pass	-223.23
Selenastrum capricornutum	Growth	96 hours	67800.707	111072.930	1101375.00	2364375.00	Pass	Pass	-114.67
Selenastrum capricornutum	Growth	96 hours	67800.707	449844.820	1101375.00	5507425.00	Pass	Pass	-400.05
Selenastrum capricornutum	Growth	96 hours	67800.707	283524.054	1101375.00	4301475.00	Pass	Pass	-290.55
Selenastrum capricornutum	Growth	96 hours	51674.647	225289.508	874325.00	4267475.00	Pass	Pass	-388.09
Selenastrum capricornutum	Growth	96 hours	51674.647	380743.623	874325.00	4936000.00	Pass	Pass	-464.55
Selenastrum capricornutum	Growth	96 hours	51674.647	519457.848	874325.00	5287875.00	Pass	Pass	-504.80
Selenastrum capricornutum	Growth	96 hours	51674.647	301200.824	874325.00	5103650.00	Pass	Pass	-483.72
Selenastrum capricornutum	Growth	96 hours	51674.647	452067.461	874325.00	4320875.00	Pass	Pass	-394.20
Selenastrum capricornutum	Growth	96 hours	32101.558	338098.265	580950.00	3863150.00	Pass	Pass	-564.97
Selenastrum capricornutum	Growth	96 hours	32101.558	57657.061	580950.00	4190050.00	Pass	Pass	-621.24
Selenastrum capricornutum	Growth	96 hours	32101.558	201315.209	580950.00	3505600.00	Pass	Pass	-503.43
Selenastrum capricornutum	Growth	96 hours	32101.558	313186.340	580950.00	3655150.00	Pass	Pass	-529.17
Selenastrum capricornutum	Growth	96 hours	33015.855	412322.927	432900.00	3392175.00	Pass	Pass	-683.59
Selenastrum capricornutum	Growth	96 hours	33015.855	326133.024	432900.00	4501125.00	Pass	Pass	-939.76
Selenastrum capricornutum	Growth	96 hours	33015.855	189198.703	432900.00	4426025.00	Pass	Pass	-922.41
Selenastrum capricornutum	Growth	96 hours	33015.855	280227.491	432900.00	4725500.00	Pass	Pass	-991.59
Selenastrum capricornutum	Growth	96 hours	33015.855	312237.458	432900.00	3951150.00	Pass	Pass	-812.72
Selenastrum capricornutum	Growth	96 hours	15953.683	81714.518	537700.00	3882875.00	Pass	Pass	-622.13
Selenastrum capricornutum	Growth	96 hours	12352.699	229666.933	287375.00	2576400.00	Pass	Pass	-796.53
Selenastrum capricornutum	Growth	96 hours	12352.699	135747.864	287375.00	2167225.00	Pass	Pass	-654.15
Selenastrum capricornutum	Growth	96 hours	12352.699	277451.189	287375.00	2247975.00	Pass	Pass	-682.24

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Selenastrum capricornutum	Growth	96 hours	12352.699	121547.340	287375.00	1113875.00	Pass	Pass	-287.60
Selenastrum capricornutum	Growth	96 hours	49264.955	252152.366	561225.00	2491525.00	Pass	Pass	-343.94
Selenastrum capricornutum	Growth	96 hours	49264.955	110539.797	561225.00	2237700.00	Pass	Pass	-298.72
Selenastrum capricornutum	Growth	96 hours	49264.955	327502.763	561225.00	4288800.00	Pass	Pass	-664.19
Selenastrum capricornutum	Growth	96 hours	49264.955	480326.351	561225.00	4201250.00	Pass	Pass	-648.59
Selenastrum capricornutum	Growth	96 hours	49264.955	350900.512	561225.00	4111875.00	Pass	Pass	-632.66
Selenastrum capricornutum	Growth	96 hours	52853.280	636609.367	533225.00	2482400.00	Pass	Pass	-365.54
Selenastrum capricornutum	Growth	96 hours	52853.280	113266.456	533225.00	3792750.00	Pass	Pass	-611.29
Selenastrum capricornutum	Growth	96 hours	52853.280	257580.219	533225.00	3591475.00	Pass	Pass	-573.54
Selenastrum capricornutum	Growth	96 hours	82896.602	160896.144	864900.00	1264875.00	Pass	Pass	-46.25
Selenastrum capricornutum	Growth	96 hours	82896.602	348293.797	864900.00	3455325.00	Pass	Pass	-299.51
Selenastrum capricornutum	Growth	96 hours	82896.602	294288.128	864900.00	3604625.00	Pass	Pass	-316.77
Selenastrum capricornutum	Growth	96 hours	82896.602	176743.317	864900.00	3131900.00	Pass	Pass	-262.11
Selenastrum capricornutum	Growth	96 hours	82896.602	174280.566	864900.00	2820525.00	Pass	Pass	-226.11
Selenastrum capricornutum	Growth	96 hours	27027.147	317452.070	397300.00	3642050.00	Pass	Pass	-816.70
Selenastrum capricornutum	Growth	96 hours	27027.147	396885.663	397300.00	3481375.00	Pass	Pass	-776.26
Selenastrum capricornutum	Growth	96 hours	27027.147	120313.840	397300.00	1389000.00	Pass	Pass	-249.61
Selenastrum capricornutum	Growth	96 hours	27027.147	135939.018	397300.00	3149250.00	Pass	Pass	-692.66
Selenastrum capricornutum	Growth	96 hours	33279.073	262294.153	405950.00	3355325.00	Pass	Pass	-726.54
Selenastrum capricornutum	Growth	96 hours	33279.073	64891.981	405950.00	4052625.00	Pass	Pass	-898.31
Selenastrum capricornutum	Growth	96 hours	33279.073	313606.739	405950.00	3723200.00	Pass	Pass	-817.16
Selenastrum capricornutum	Growth	96 hours	33279.073	204001.853	405950.00	3137625.00	Pass	Pass	-672.91
Selenastrum capricornutum	Growth	96 hours	33279.073	221862.720	405950.00	3730800.00	Pass	Pass	-819.03
Selenastrum capricornutum	Growth	96 hours	51639.931	45412.627	649175.00	4953700.00	Pass	Pass	-663.08
Selenastrum capricornutum	Growth	96 hours	36939.714	270613.347	879525.00	4663250.00	Pass	Pass	-430.20
Selenastrum capricornutum	Growth	96 hours	36939.714	410859.501	879525.00	4126625.00	Pass	Pass	-369.19
Selenastrum capricornutum	Growth	96 hours	36939.714	359657.322	879525.00	3162175.00	Pass	Pass	-259.53
Selenastrum capricornutum	Growth	96 hours	36939.714	207008.991	879525.00	4730225.00	Pass	Pass	-437.82
Selenastrum capricornutum	Growth	96 hours	69336.180	179983.625	442649.00	2126259.50	Pass	Pass	-380.35
Selenastrum capricornutum	Growth	96 hours	69336.180	122656.697	442649.00	1113488.00	Pass	Pass	-151.55

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Selenastrum capricornutum	Growth	96 hours	69336.180	52509.485	442649.00	2217441.50	Pass	Pass	-400.95
Selenastrum capricornutum	Growth	96 hours	69336.180	86649.829	442649.00	2256519.50	Pass	Pass	-409.78
Selenastrum capricornutum	Growth	96 hours	89222.553	234558.441	471957.50	2347701.50	Pass	Pass	-397.44
Selenastrum capricornutum	Growth	96 hours	89222.553	120563.822	471957.50	325415.00	Fail	Fail	31.05
Selenastrum capricornutum	Growth	96 hours	89222.553	85994.623	471957.50	1885278.50	Pass	Pass	-299.46
Selenastrum capricornutum	Growth	96 hours	56278.752	81260.388	475214.00	2145798.50	Pass	Pass	-351.54
Selenastrum capricornutum	Growth	96 hours	56278.752	40324.535	475214.00	1390290.50	Pass	Pass	-192.56
Selenastrum capricornutum	Growth	96 hours	38896.663	56654.365	530574.50	1123257.50	Pass	Pass	-111.71
Selenastrum capricornutum	Growth	96 hours	38896.663	96895.697	530574.50	2038334.00	Pass	Pass	-284.17
Selenastrum capricornutum	Growth	96 hours	38896.663	83407.096	530574.50	846455.00	Pass	Pass	-59.54
Selenastrum capricornutum	Growth	96 hours	38896.663	132145.972	530574.50	1370751.50	Pass	Pass	-158.35
Selenastrum capricornutum	Growth	96 hours	31008.082	251910.851	494753.00	1816892.00	Pass	Pass	-267.23
Selenastrum capricornutum	Growth	96 hours	31008.082	89222.553	494753.00	1474959.50	Pass	Pass	-198.12
Selenastrum capricornutum	Growth	96 hours	31008.082	112243.010	494753.00	2080668.50	Pass	Pass	-320.55
Selenastrum capricornutum	Growth	96 hours	75580.739	55264.638	1133027.00	1230722.00	Pass	Pass	-8.62
Selenastrum capricornutum	Growth	96 hours	75580.739	50309.148	1133027.00	1084179.50	Pass	Pass	4.31
Selenastrum capricornutum	Growth	96 hours	75580.739	179393.449	1133027.00	1693145.00	Pass	Pass	-49.44
Selenastrum capricornutum	Growth	96 hours	75580.739	156085.690	1133027.00	1709427.50	Pass	Pass	-50.87
Selenastrum capricornutum	Growth	96 hours	70046.298	48155.110	1220952.50	1172105.00	Pass	Pass	4.00
Selenastrum capricornutum	Growth	96 hours	70046.298	695428.606	1220952.50	1592193.50	Pass	Pass	-30.41
Selenastrum capricornutum	Growth	96 hours	70046.298	102290.738	1220952.50	2670095.00	Pass	Pass	-118.69
Selenastrum capricornutum	Growth	96 hours	61097.356	211380.048	1061384.00	2416088.00	Pass	Pass	-127.64
Selenastrum capricornutum	Growth	96 hours	61097.356	390128.156	1061384.00	1758275.00	Pass	Pass	-65.66
Selenastrum capricornutum	Growth	96 hours	61097.356	249966.870	1061384.00	2940384.50	Pass	Pass	-177.03
Selenastrum capricornutum	Growth	96 hours	61097.356	87945.600	1061384.00	778068.50	Fail	Fail	26.69
Selenastrum capricornutum	Growth	96 hours	71346.340	160021.993	1374008.00	2425857.50	Pass	Pass	-76.55
Selenastrum capricornutum	Growth	96 hours	69742.847	118433.970	488240.00	1334930.00	Pass	Pass	-173.42
Selenastrum capricornutum	Growth	96 hours	69742.847	630685.776	488240.00	2015538.50	Pass	Pass	-312.82
Selenastrum capricornutum	Growth	96 hours	69742.847	250447.222	488240.00	1706171.00	Pass	Pass	-249.45
Selenastrum capricornutum	Growth	96 hours	69742.847	46815.137	488240.00	641295.50	Pass	Pass	-31.35

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Selenastrum capricornutum	Growth	96 hours	41191.829	117655.382	527318.00	1318647.50	Pass	Pass	-150.07
Selenastrum capricornutum	Growth	96 hours	41191.829	19539.000	527318.00	413340.50	Pass	Fail	21.61
Selenastrum capricornutum	Growth	96 hours	41191.829	152465.421	527318.00	1002767.00	Pass	Pass	-90.16
Selenastrum capricornutum	Growth	96 hours	41191.829	16816.494	527318.00	338441.00	Fail	Fail	35.82
Selenastrum capricornutum	Growth	96 hours	107151.552	131770.937	507779.00	794351.00	Pass	Pass	-56.44
Selenastrum capricornutum	Growth	96 hours	107151.552	227458.230	507779.00	1266543.50	Pass	Pass	-149.43
Selenastrum capricornutum	Growth	96 hours	107151.552	106887.306	507779.00	1308878.00	Pass	Pass	-157.77
Selenastrum capricornutum	Growth	96 hours	65021.359	149468.265	576165.50	1784327.00	Pass	Pass	-209.69
Selenastrum capricornutum	Growth	96 hours	65021.359	74828.673	576165.50	1523807.00	Pass	Pass	-164.47
Selenastrum capricornutum	Growth	96 hours	114240.817	83067.351	621756.50	1217696.00	Pass	Pass	-95.85
Selenastrum capricornutum	Growth	96 hours	114240.817	93630.274	621756.50	898559.00	Pass	Pass	-44.52
Selenastrum capricornutum	Growth	96 hours	114240.817	150927.445	621756.50	2223954.50	Pass	Pass	-257.69
Selenastrum capricornutum	Growth	96 hours	38347.506	90871.328	527318.00	2546348.00	Pass	Pass	-382.89
Selenastrum capricornutum	Growth	96 hours	38347.506	128070.600	527318.00	2012282.00	Pass	Pass	-281.61
Selenastrum capricornutum	Growth	96 hours	38347.506	99983.920	527318.00	2184876.50	Pass	Pass	-314.34
Selenastrum capricornutum	Growth	96 hours	68412.340	170295.543	478470.50	2595195.50	Pass	Pass	-442.39
Selenastrum capricornutum	Growth	96 hours	68412.340	115042.517	478470.50	1139540.00	Pass	Pass	-138.16
Selenastrum capricornutum	Growth	96 hours	68412.340	103390.670	478470.50	625013.00	Pass	Pass	-30.63
Selenastrum capricornutum	Growth	96 hours	68412.340	115226.733	478470.50	3389781.50	Pass	Pass	-608.46
Selenastrum capricornutum	Growth	96 hours	68412.340	60516.017	478470.50	973458.50	Pass	Pass	-103.45
Selenastrum capricornutum	Growth	96 hours	96895.697	306964.353	1217696.00	3236726.00	Pass	Pass	-165.81
Selenastrum capricornutum	Growth	96 hours	96895.697	444588.785	1217696.00	2751507.50	Pass	Pass	-125.96
Selenastrum capricornutum	Growth	96 hours	96895.697	203020.424	1217696.00	2855715.50	Pass	Pass	-134.52
Selenastrum capricornutum	Growth	96 hours	96895.697	53178.422	1217696.00	1803866.00	Pass	Pass	-48.14
Selenastrum capricornutum	Growth	96 hours	19539.000	51006.951	882276.50	475214.00	Fail	Fail	46.14
Selenastrum capricornutum	Growth	96 hours	19539.000	153528.233	882276.50	2035077.50	Pass	Pass	-130.66
Selenastrum capricornutum	Growth	96 hours	19539.000	298628.922	882276.50	2731968.50	Pass	Pass	-209.65
Selenastrum capricornutum	Growth	96 hours	174883.449	61097.356	914841.50	3210674.00	Pass	Pass	-250.95
Selenastrum capricornutum	Growth	96 hours	174883.449	157752.694	914841.50	1282826.00	Pass	Pass	-40.22
Selenastrum capricornutum	Growth	96 hours	174883.449	294168.497	914841.50	3119492.00	Pass	Pass	-240.99

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	174883.449	141248.537	914841.50	2354214.50	Pass	Pass	-157.34
Selenastrum capricornutum	Growth	96 hours	38896.663	87056.829	237489.50	657578.00	Pass	Pass	-176.89
Selenastrum capricornutum	Growth	96 hours	38896.663	144416.382	237489.50	2230467.50	Pass	Pass	-839.19
Selenastrum capricornutum	Growth	96 hours	38896.663	41703.548	237489.50	823659.50	Pass	Pass	-246.82
Selenastrum capricornutum	Growth	96 hours	45123.388	37414.337	331928.00	660834.50	Pass	Pass	-99.09
Selenastrum capricornutum	Growth	96 hours	45123.388	40324.535	331928.00	693399.50	Pass	Pass	-108.90
Selenastrum capricornutum	Growth	96 hours	45123.388	204131.731	331928.00	2061129.50	Pass	Pass	-520.96
Selenastrum capricornutum	Growth	96 hours	45123.388	65021.359	331928.00	647808.50	Pass	Pass	-95.17
Selenastrum capricornutum	Growth	96 hours	62470.501	97477.658	351467.00	1113488.00	Pass	Pass	-216.81
Selenastrum capricornutum	Growth	96 hours	62470.501	43038.398	351467.00	660834.50	Pass	Pass	-88.02
Selenastrum capricornutum	Growth	96 hours	62470.501	102773.406	351467.00	1331673.50	Pass	Pass	-278.89
Selenastrum capricornutum	Growth	96 hours	62470.501	72428.152	351467.00	582678.50	Pass	Pass	-65.78
Selenastrum capricornutum	Growth	96 hours	31008.572	132999.224	559882.75	1136283.50	Pass	Pass	-102.95
Selenastrum capricornutum	Growth	96 hours	31008.572	56779.018	559882.75	234233.00	Fail	Fail	58.16
Selenastrum capricornutum	Growth	96 hours	31008.572	16390.691	559882.75	413340.50	Fail	Fail	26.17
Selenastrum capricornutum	Growth	96 hours	31008.572	88586.377	559882.75	602217.50	Pass	Pass	-7.56
Selenastrum capricornutum	Growth	96 hours	44333.075	59574.076	452418.50	602217.50	Pass	Pass	-33.11
Selenastrum capricornutum	Growth	96 hours	44333.075	12471.446	452418.50	55125.50	Fail	Fail	87.82
Selenastrum capricornutum	Growth	96 hours	44333.075	128950.821	452418.50	1543346.00	Pass	Pass	-241.13
Selenastrum capricornutum	Growth	96 hours	79856.215	78876.182	413340.50	670603.75	Pass	Pass	-62.24
Selenastrum capricornutum	Growth	96 hours	79856.215	70948.865	413340.50	664091.00	Pass	Pass	-60.66
Selenastrum capricornutum	Growth	96 hours	79856.215	10635.684	413340.50	331928.00	Fail	Pass	19.70
Selenastrum capricornutum	Growth	96 hours	79856.215	103868.227	413340.50	602217.50	Pass	Pass	-45.70
Selenastrum capricornutum	Growth	96 hours	43202.355	71643.000	598961.00	647808.50	Pass	Pass	-8.16
Selenastrum capricornutum	Growth	96 hours	43202.355	93024.247	598961.00	1093949.00	Pass	Pass	-82.64
Selenastrum capricornutum	Growth	96 hours	43202.355	68515.604	598961.00	416597.00	Fail	Fail	30.45
Selenastrum capricornutum	Growth	96 hours	84669.000	166134.702	608730.50	1035332.00	Pass	Pass	-70.08
Selenastrum capricornutum	Growth	96 hours	84669.000	86731.382	608730.50	742247.00	Pass	Pass	-21.93
Selenastrum capricornutum	Growth	96 hours	84669.000	54621.256	608730.50	1520550.50	Pass	Pass	-149.79
Selenastrum capricornutum	Growth	96 hours	137185.901	102290.738	771555.50	937637.00	Pass	Pass	-21.53

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	137185.901	62357.228	771555.50	1650810.50	Pass	Pass	-113.96
Selenastrum capricornutum	Growth	96 hours	137185.901	118910.567	771555.50	1165592.00	Pass	Pass	-51.07
Selenastrum capricornutum	Growth	96 hours	74734.133	118910.567	686886.50	1178618.00	Pass	Pass	-71.59
Selenastrum capricornutum	Growth	96 hours	74734.133	68515.604	686886.50	690143.00	Pass	Pass	-0.47
Selenastrum capricornutum	Growth	96 hours	74734.133	151348.443	686886.50	1471703.00	Pass	Pass	-114.26
Selenastrum capricornutum	Growth	96 hours	74734.133	70046.298	686886.50	758529.50	Pass	Pass	-10.43
Selenastrum capricornutum	Growth	96 hours	67685.081	100548.008	364493.00	1084179.50	Pass	Pass	-197.45
Selenastrum capricornutum	Growth	96 hours	67685.081	90559.590	364493.00	1028819.00	Pass	Pass	-182.26
Selenastrum capricornutum	Growth	96 hours	67685.081	43202.355	364493.00	1120001.00	Pass	Pass	-207.28
Selenastrum capricornutum	Growth	96 hours	67685.081	81347.344	364493.00	807377.00	Pass	Pass	-121.51
Selenastrum capricornutum	Growth	96 hours	52509.485	32565.000	361236.50	836685.50	Pass	Pass	-131.62
Selenastrum capricornutum	Growth	96 hours	52509.485	57275.217	361236.50	983228.50	Pass	Pass	-172.18
Selenastrum capricornutum	Growth	96 hours	52509.485	118910.567	361236.50	631526.00	Pass	Pass	-74.82
Selenastrum capricornutum	Growth	96 hours	52509.485	75580.739	361236.50	1015793.00	Pass	Pass	-181.20
Selenastrum capricornutum	Growth	96 hours	38347.506	59216.985	384032.00	1360982.00	Pass	Pass	-254.39
Selenastrum capricornutum	Growth	96 hours	38347.506	169170.918	384032.00	1725710.00	Pass	Pass	-349.37
Selenastrum capricornutum	Growth	96 hours	38347.506	237345.016	384032.00	1947152.00	Pass	Pass	-407.03
Selenastrum capricornutum	Growth	96 hours	38347.506	51421.087	384032.00	1364238.50	Pass	Pass	-255.24
Selenastrum capricornutum	Growth	96 hours	97695.000	123116.949	498009.50	1725710.00	Pass	Pass	-246.52
Selenastrum capricornutum	Growth	96 hours	114796.437	398731.796	677117.00	2357471.00	Pass	Pass	-248.16
Selenastrum capricornutum	Growth	96 hours	140495.741	398731.796	598961.00	2357471.00	Pass	Pass	-293.59
Selenastrum capricornutum	Growth	96 hours	63257.740	398731.796	511035.50	2357471.00	Pass	Pass	-361.31
Selenastrum capricornutum	Growth	96 hours	114796.437	59216.985	677117.00	1256774.00	Pass	Pass	-85.61
Selenastrum capricornutum	Growth	96 hours	140495.741	59216.985	598961.00	1256774.00	Pass	Pass	-109.83
Selenastrum capricornutum	Growth	96 hours	63257.740	59216.985	511035.50	1256774.00	Pass	Pass	-145.93
Selenastrum capricornutum	Growth	96 hours	114796.437	404575.621	677117.00	1413086.00	Pass	Pass	-108.69
Selenastrum capricornutum	Growth	96 hours	140495.741	404575.621	598961.00	1413086.00	Pass	Pass	-135.92
Selenastrum capricornutum	Growth	96 hours	63257.740	404575.621	511035.50	1413086.00	Pass	Pass	-176.51
Selenastrum capricornutum	Growth	96 hours	114796.437	384708.306	677117.00	1331673.50	Pass	Pass	-96.67
Selenastrum capricornutum	Growth	96 hours	140495.741	384708.306	598961.00	1331673.50	Pass	Pass	-122.33

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	63257.740	384708.306	511035.50	1331673.50	Pass	Pass	-160.58
Selenastrum capricornutum	Growth	96 hours	114796.437	135943.437	677117.00	1429368.50	Pass	Pass	-111.10
Selenastrum capricornutum	Growth	96 hours	140495.741	135943.437	598961.00	1429368.50	Pass	Pass	-138.64
Selenastrum capricornutum	Growth	96 hours	63257.740	135943.437	511035.50	1429368.50	Pass	Pass	-179.70
Selenastrum capricornutum	Growth	96 hours	114796.437	34257.802	677117.00	1487985.50	Pass	Pass	-119.75
Selenastrum capricornutum	Growth	96 hours	140495.741	34257.802	598961.00	1487985.50	Pass	Pass	-148.43
Selenastrum capricornutum	Growth	96 hours	63257.740	34257.802	511035.50	1487985.50	Pass	Pass	-191.17
Selenastrum capricornutum	Growth	96 hours	114796.437	354883.802	677117.00	1357725.50	Pass	Pass	-100.52
Selenastrum capricornutum	Growth	96 hours	140495.741	354883.802	598961.00	1357725.50	Pass	Pass	-126.68
Selenastrum capricornutum	Growth	96 hours	63257.740	354883.802	511035.50	1357725.50	Pass	Pass	-165.68
Selenastrum capricornutum	Growth	96 hours	114796.437	133423.803	677117.00	1930869.50	Pass	Pass	-185.16
Selenastrum capricornutum	Growth	96 hours	140495.741	133423.803	598961.00	1930869.50	Pass	Pass	-222.37
Selenastrum capricornutum	Growth	96 hours	63257.740	133423.803	511035.50	1930869.50	Pass	Pass	-277.83
Selenastrum capricornutum	Growth	96 hours	114796.437	358846.008	677117.00	2223954.50	Pass	Pass	-228.44
Selenastrum capricornutum	Growth	96 hours	140495.741	358846.008	598961.00	2223954.50	Pass	Pass	-271.30
Selenastrum capricornutum	Growth	96 hours	63257.740	358846.008	511035.50	2223954.50	Pass	Pass	-335.19
Selenastrum capricornutum	Growth	96 hours	114796.437	161648.409	677117.00	722708.00	Pass	Pass	-6.73
Selenastrum capricornutum	Growth	96 hours	140495.741	161648.409	598961.00	722708.00	Pass	Pass	-20.66
Selenastrum capricornutum	Growth	96 hours	63257.740	161648.409	511035.50	722708.00	Pass	Pass	-41.42
Selenastrum capricornutum	Growth	96 hours	43852.050	139890.588	514292.00	813890.00	Pass	Pass	-58.25
Selenastrum capricornutum	Growth	96 hours	43852.050	224486.019	514292.00	1054871.00	Pass	Pass	-105.11
Selenastrum capricornutum	Growth	96 hours	43852.050	99416.630	514292.00	1286082.50	Pass	Pass	-150.07
Selenastrum capricornutum	Growth	96 hours	65021.359	275092.344	471957.50	1921100.00	Pass	Pass	-307.05
Selenastrum capricornutum	Growth	96 hours	65021.359	197083.280	471957.50	1546602.50	Pass	Pass	-227.70
Selenastrum capricornutum	Growth	96 hours	65021.359	334538.350	471957.50	2074155.50	Pass	Pass	-339.48
Selenastrum capricornutum	Growth	96 hours	65021.359	84669.000	471957.50	686886.50	Pass	Pass	-45.54
Selenastrum capricornutum	Growth	96 hours	76232.711	132413.204	361236.50	2233724.00	Pass	Pass	-518.36
Selenastrum capricornutum	Growth	96 hours	76232.711	200391.650	361236.50	1882022.00	Pass	Pass	-420.99
Selenastrum capricornutum	Growth	96 hours	76232.711	176212.462	361236.50	2344445.00	Pass	Pass	-549.01
Selenastrum capricornutum	Growth	96 hours	76232.711	130476.919	361236.50	403571.00	Pass	Pass	-11.72

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	76232.711	88984.520	361236.50	774812.00	Pass	Pass	-114.49
Selenastrum capricornutum	Growth	96 hours	35870.807	43038.398	374262.50	940893.50	Pass	Pass	-151.40
Selenastrum capricornutum	Growth	96 hours	35870.807	83322.290	374262.50	1833174.50	Pass	Pass	-389.81
Selenastrum capricornutum	Growth	96 hours	35870.807	81694.242	374262.50	696656.00	Pass	Pass	-86.14
Selenastrum capricornutum	Growth	96 hours	35870.807	69742.847	374262.50	592448.00	Pass	Pass	-58.30
Selenastrum capricornutum	Growth	96 hours	31008.082	170627.341	260285.00	1891791.50	Pass	Pass	-626.82
Selenastrum capricornutum	Growth	96 hours	31008.082	106622.405	260285.00	1680119.00	Pass	Pass	-545.49
Selenastrum capricornutum	Growth	96 hours	31008.082	192436.833	260285.00	1442394.50	Pass	Pass	-454.16
Selenastrum capricornutum	Growth	96 hours	31008.082	258230.389	260285.00	2109977.00	Pass	Pass	-710.64
Selenastrum capricornutum	Growth	96 hours	126459.585	64694.343	953919.50	1191644.00	Pass	Pass	-24.92
Selenastrum capricornutum	Growth	96 hours	126459.585	32565.000	953919.50	986484.50	Pass	Pass	-3.41
Selenastrum capricornutum	Growth	96 hours	126459.585	248150.143	953919.50	1481472.50	Pass	Pass	-55.30
Selenastrum capricornutum	Growth	96 hours	126459.585	102290.738	953919.50	755273.00	Fail	Fail	20.82
Selenastrum capricornutum	Growth	96 hours	80561.361	12471.446	888789.50	628269.50	Fail	Fail	29.31
Selenastrum capricornutum	Growth	96 hours	80561.361	295702.633	888789.50	1751762.00	Pass	Pass	-97.10
Selenastrum capricornutum	Growth	96 hours	80561.361	24942.891	888789.50	507779.00	Fail	Fail	42.87
Selenastrum capricornutum	Growth	96 hours	80561.361	12471.446	888789.50	543600.50	Fail	Fail	38.84
Selenastrum capricornutum	Growth	96 hours	80561.361	97695.000	888789.50	830172.50	Pass	Pass	6.60
Selenastrum capricornutum	Growth	96 hours	158824.639	295774.350	722708.00	862737.50	Pass	Pass	-19.38
Selenastrum capricornutum	Growth	96 hours	158824.639	160375.048	722708.00	1129770.50	Pass	Pass	-56.32
Selenastrum capricornutum	Growth	96 hours	158824.639	89222.553	722708.00	289593.50	Fail	Fail	59.93
Selenastrum capricornutum	Growth	96 hours	158824.639	107678.098	722708.00	1484729.00	Pass	Pass	-105.44
Selenastrum capricornutum	Growth	96 hours	40499.480	38896.663	403571.00	758529.50	Pass	Pass	-87.95
Selenastrum capricornutum	Growth	96 hours	40499.480	63257.740	403571.00	439392.50	Pass	Pass	-8.88
Selenastrum capricornutum	Growth	96 hours	40499.480	205512.415	403571.00	1168848.50	Pass	Pass	-189.63
Selenastrum capricornutum	Growth	96 hours	40499.480	119562.787	403571.00	1396803.50	Pass	Pass	-246.11
Selenastrum capricornutum	Growth	96 hours	40499.480	332333.231	403571.00	921354.50	Pass	Pass	-128.30
Selenastrum capricornutum	Growth	96 hours	90481.488	16816.494	478470.50	651065.00	Pass	Pass	-36.07
Selenastrum capricornutum	Growth	96 hours	90481.488	154629.465	478470.50	940893.50	Pass	Pass	-96.65
Selenastrum capricornutum	Growth	96 hours	90481.488	163518.244	478470.50	973458.50	Pass	Pass	-103.45

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	90481.488	76232.711	478470.50	810633.50	Pass	Pass	-69.42
Selenastrum capricornutum	Growth	96 hours	90481.488	88984.520	478470.50	931124.00	Pass	Pass	-94.60
Selenastrum capricornutum	Growth	96 hours	57644.036	12471.446	367749.50	706425.50	Pass	Pass	-92.09
Selenastrum capricornutum	Growth	96 hours	57644.036	156085.690	367749.50	1227465.50	Pass	Pass	-233.78
Selenastrum capricornutum	Growth	96 hours	57644.036	54750.537	367749.50	507779.00	Pass	Pass	-38.08
Selenastrum capricornutum	Growth	96 hours	57644.036	109759.027	367749.50	1054871.00	Pass	Pass	-186.84
Selenastrum capricornutum	Growth	96 hours	55264.638	155040.411	592448.00	1067897.00	Pass	Pass	-80.25
Selenastrum capricornutum	Growth	96 hours	55264.638	116992.381	592448.00	996254.25	Pass	Pass	-68.16
Selenastrum capricornutum	Growth	96 hours	55264.638	41703.548	592448.00	1442394.50	Pass	Pass	-143.46
Selenastrum capricornutum	Growth	96 hours	55264.638	37602.823	592448.00	1693145.00	Pass	Pass	-185.79
Selenastrum capricornutum	Growth	96 hours	144660.949	180650.161	800864.00	2904563.00	Pass	Pass	-262.68
Selenastrum capricornutum	Growth	96 hours	144660.949	184981.431	800864.00	611987.00	Fail	Pass	23.58
Selenastrum capricornutum	Growth	96 hours	53707.574	48155.110	260285.00	651065.00	Pass	Pass	-150.14
Selenastrum capricornutum	Growth	96 hours	53707.574	109501.074	260285.00	1439138.00	Pass	Pass	-452.91
Selenastrum capricornutum	Growth	96 hours	53707.574	82726.211	260285.00	1159079.00	Pass	Pass	-345.31
Selenastrum capricornutum	Growth	96 hours	53707.574	59216.985	260285.00	1217696.00	Pass	Pass	-367.83
Selenastrum capricornutum	Growth	96 hours	53707.574	57644.036	260285.00	732477.50	Pass	Pass	-181.41
Selenastrum capricornutum	Growth	96 hours	58617.000	90559.590	458931.50	833429.00	Pass	Pass	-81.60
Selenastrum capricornutum	Growth	96 hours	58617.000	132199.462	458931.50	1159079.00	Pass	Pass	-152.56
Selenastrum capricornutum	Growth	96 hours	58617.000	33632.987	458931.50	540344.00	Pass	Pass	-17.74
Selenastrum capricornutum	Growth	96 hours	58617.000	55647.096	458931.50	673860.50	Pass	Pass	-46.83
Selenastrum capricornutum	Growth	96 hours	10635.684	125110.644	514292.00	1233978.50	Pass	Pass	-139.94
Selenastrum capricornutum	Growth	96 hours	10635.684	79944.698	514292.00	1237235.00	Pass	Pass	-140.57
Selenastrum capricornutum	Growth	96 hours	10635.684	43038.398	514292.00	1214439.50	Pass	Pass	-136.14
Selenastrum capricornutum	Growth	96 hours	10635.684	93630.274	514292.00	1549859.00	Pass	Pass	-201.36
Selenastrum capricornutum	Growth	96 hours	87300.119	193791.394	354723.50	1152566.00	Pass	Pass	-224.92
Selenastrum capricornutum	Growth	96 hours	87300.119	145829.158	354723.50	1113488.00	Pass	Pass	-213.90
Selenastrum capricornutum	Growth	96 hours	197114.956	302224.189	1380267.50	1345760.50	Pass	Pass	2.50
Selenastrum capricornutum	Growth	96 hours	197114.956	152973.587	1380267.50	1520948.25	Pass	Pass	-10.19
Selenastrum capricornutum	Growth	96 hours	197114.956	219826.105	1380267.50	1804965.00	Pass	Pass	-30.77

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	197114.956	148264.543	1380267.50	1523602.50	Pass	Pass	-10.38
Selenastrum capricornutum	Growth	96 hours	197114.956	231044.288	1380267.50	2286923.75	Pass	Pass	-65.69
Selenastrum capricornutum	Growth	96 hours	153739.168	39251.032	1332488.50	1428045.50	Pass	Pass	-7.17
Selenastrum capricornutum	Growth	96 hours	153739.168	125776.606	1332488.50	1629777.25	Pass	Pass	-22.31
Selenastrum capricornutum	Growth	96 hours	153739.168	125926.095	1332488.50	1709408.25	Pass	Pass	-28.29
Selenastrum capricornutum	Growth	96 hours	153739.168	320932.493	1332488.50	1810273.50	Pass	Pass	-35.86
Selenastrum capricornutum	Growth	96 hours	314546.338	195871.951	1364341.25	1512985.50	Pass	Pass	-10.89
Selenastrum capricornutum	Growth	96 hours	314546.338	171283.302	1364341.25	1696136.25	Pass	Pass	-24.32
Selenastrum capricornutum	Growth	96 hours	314546.338	164341.668	1364341.25	1972189.50	Pass	Pass	-44.55
Selenastrum capricornutum	Growth	96 hours	314546.338	69013.423	1364341.25	1786384.25	Pass	Pass	-30.93
Selenastrum capricornutum	Growth	96 hours	154196.716	290948.340	2513679.00	1807619.25	Fail	Fail	28.09
Selenastrum capricornutum	Growth	96 hours	154196.716	91898.413	2513679.00	2189847.00	Pass	Fail	12.88
Selenastrum capricornutum	Growth	96 hours	154196.716	70627.705	2513679.00	2577383.75	Pass	Pass	-2.53
Selenastrum capricornutum	Growth	96 hours	154196.716	121483.772	2513679.00	2588001.00	Pass	Pass	-2.96
Ceriodaphnia dubia	Reproduction	6-8 day	5.851	3.801	35.70	41.00	Pass	Pass	-14.85
Ceriodaphnia dubia	Reproduction	6-8 day	5.851	2.951	35.70	43.60	Pass	Pass	-22.13
Ceriodaphnia dubia	Reproduction	6-8 day	5.851	8.028	35.70	39.70	Pass	Pass	-11.20
Ceriodaphnia dubia	Reproduction	6-8 day	6.308	2.633	33.70	42.40	Pass	Pass	-25.82
Ceriodaphnia dubia	Reproduction	6-8 day	6.308	3.367	33.70	42.00	Pass	Pass	-24.63
Ceriodaphnia dubia	Reproduction	6-8 day	6.308	2.503	33.70	43.40	Pass	Pass	-28.78
Ceriodaphnia dubia	Reproduction	6-8 day	6.308	12.819	33.70	34.90	Pass	Pass	-3.56
Ceriodaphnia dubia	Reproduction	6-8 day	6.308	2.503	33.70	38.40	Pass	Pass	-13.95
Ceriodaphnia dubia	Reproduction	6-8 day	6.308	4.719	33.70	39.40	Pass	Pass	-16.91
Ceriodaphnia dubia	Reproduction	6-8 day	6.308	12.106	33.70	35.10	Pass	Pass	-4.15
Ceriodaphnia dubia	Reproduction	6-8 day	1.524	4.467	27.10	21.80	Pass	Fail	19.56
Ceriodaphnia dubia	Reproduction	6-8 day	1.524	9.274	27.10	28.70	Pass	Pass	-5.90
Ceriodaphnia dubia	Reproduction	6-8 day	1.524	2.348	27.10	31.20	Pass	Pass	-15.13
Ceriodaphnia dubia	Reproduction	6-8 day	1.524	2.413	27.10	26.40	Pass	Pass	2.58
Ceriodaphnia dubia	Reproduction	6-8 day	1.524	3.240	27.10	27.50	Pass	Pass	-1.48
Ceriodaphnia dubia	Reproduction	6-8 day	1.524	2.066	27.10	29.40	Pass	Pass	-8.49

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	1.524	1.958	27.10	28.50	Pass	Pass	-5.17
Ceriodaphnia dubia	Reproduction	6-8 day	1.524	2.406	27.10	28.30	Pass	Pass	-4.43
Ceriodaphnia dubia	Reproduction	6-8 day	1.567	14.014	27.30	19.80	Fail	Pass	27.47
Ceriodaphnia dubia	Reproduction	6-8 day	1.567	7.279	27.30	21.90	Fail	Fail	19.78
Ceriodaphnia dubia	Reproduction	6-8 day	1.567	2.821	27.30	24.80	Pass	Fail	9.16
Ceriodaphnia dubia	Reproduction	6-8 day	1.567	1.792	27.30	24.90	Pass	Fail	8.79
Ceriodaphnia dubia	Reproduction	6-8 day	1.567	2.312	27.30	26.70	Pass	Pass	2.20
Ceriodaphnia dubia	Reproduction	6-8 day	1.567	2.044	27.30	27.20	Pass	Pass	0.37
Ceriodaphnia dubia	Reproduction	6-8 day	3.342	2.799	27.50	29.50	Pass	Pass	-7.27
Ceriodaphnia dubia	Reproduction	6-8 day	3.342	2.251	27.50	28.20	Pass	Pass	-2.55
Ceriodaphnia dubia	Reproduction	6-8 day	3.342	7.169	27.50	31.50	Pass	Pass	-14.55
Ceriodaphnia dubia	Reproduction	6-8 day	4.326	4.886	28.40	22.90	Fail	Fail	19.37
Ceriodaphnia dubia	Reproduction	6-8 day	4.326	2.319	28.40	28.60	Pass	Pass	-0.70
Ceriodaphnia dubia	Reproduction	6-8 day	4.326	3.561	28.40	22.70	Pass	Fail	20.07
Ceriodaphnia dubia	Reproduction	6-8 day	4.326	4.638	28.40	25.20	Pass	Pass	11.27
Ceriodaphnia dubia	Reproduction	6-8 day	4.326	6.420	28.40	22.10	Fail	Fail	22.18
Ceriodaphnia dubia	Reproduction	6-8 day	4.326	1.563	28.40	31.00	Pass	Pass	-9.15
Ceriodaphnia dubia	Reproduction	6-8 day	4.326	4.378	28.40	22.50	Fail	Fail	20.77
Ceriodaphnia dubia	Reproduction	6-8 day	12.115	3.268	14.90	24.70	Pass	Pass	-65.77
Ceriodaphnia dubia	Reproduction	6-8 day	12.115	6.150	14.90	4.60	Fail	Fail	69.13
Ceriodaphnia dubia	Reproduction	6-8 day	12.115	7.084	14.90	7.20	Fail	Fail	51.68
Ceriodaphnia dubia	Reproduction	6-8 day	12.115	7.514	14.90	7.30	Fail	Pass	51.01
Ceriodaphnia dubia	Reproduction	6-8 day	12.115	5.527	14.90	16.10	Pass	Pass	-8.05
Ceriodaphnia dubia	Reproduction	6-8 day	2.961	5.583	27.10	27.50	Pass	Pass	-1.48
Ceriodaphnia dubia	Reproduction	6-8 day	2.961	6.182	27.10	28.00	Pass	Pass	-3.32
Ceriodaphnia dubia	Reproduction	6-8 day	2.961	6.001	27.10	25.30	Pass	Pass	6.64
Ceriodaphnia dubia	Reproduction	6-8 day	2.961	3.755	27.10	27.10	Pass	Pass	0.00
Ceriodaphnia dubia	Reproduction	6-8 day	2.961	8.894	27.10	29.00	Pass	Pass	-7.01
Ceriodaphnia dubia	Reproduction	6-8 day	2.961	5.425	27.10	30.10	Pass	Pass	-11.07
Ceriodaphnia dubia	Reproduction	6-8 day	2.961	6.215	27.10	26.20	Pass	Pass	3.32

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	2.961	2.440	27.10	28.20	Pass	Pass	-4.06
Ceriodaphnia dubia	Reproduction	6-8 day	2.961	4.849	27.10	18.20	Fail	Fail	32.84
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	9.574	100.00	92.50	Pass	Pass	7.50
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Biomass	7 day	0.022	0.020	0.55	0.60	Pass	Pass	-9.04
Pimephales promelas	Biomass	7 day	0.022	0.061	0.55	0.62	Pass	Pass	-12.47
Pimephales promelas	Biomass	7 day	0.022	0.012	0.55	0.63	Pass	Pass	-14.25
Pimephales promelas	Biomass	7 day	0.022	0.039	0.55	0.61	Pass	Pass	-11.51
Pimephales promelas	Biomass	7 day	0.022	0.042	0.55	0.53	Pass	Pass	4.06
Pimephales promelas	Biomass	7 day	0.022	0.005	0.55	0.59	Pass	Pass	-7.17
Pimephales promelas	Biomass	7 day	0.022	0.044	0.55	0.64	Pass	Pass	-16.44
Pimephales promelas	Biomass	7 day	0.022	0.047	0.55	0.56	Pass	Pass	-1.64
Pimephales promelas	Biomass	7 day	0.022	0.025	0.55	0.52	Pass	Pass	5.48
Pimephales promelas	Survival	7 day	15.000	8.165	87.50	90.00	Pass	Pass	-2.86
Pimephales promelas	Survival	7 day	15.000	5.774	87.50	95.00	Pass	Pass	-8.57
Pimephales promelas	Survival	7 day	15.000	9.574	87.50	92.50	Pass	Pass	-5.71
Pimephales promelas	Survival	7 day	15.000	8.165	87.50	90.00	Pass	Pass	-2.86
Pimephales promelas	Survival	7 day	15.000	5.000	87.50	92.50	Pass	Pass	-5.71
Pimephales promelas	Survival	7 day	15.000	0.000	87.50	100.00	Pass	Pass	-14.29
Pimephales promelas	Survival	7 day	15.000	9.574	87.50	92.50	Pass	Pass	-5.71
Pimephales promelas	Biomass	7 day	0.068	0.061	0.44	0.51	Pass	Pass	-15.47
Pimephales promelas	Biomass	7 day	0.068	0.050	0.44	0.53	Pass	Pass	-20.43
Pimephales promelas	Biomass	7 day	0.068	0.087	0.44	0.60	Pass	Pass	-36.82

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Biomass	7 day	0.068	0.018	0.44	0.51	Pass	Pass	-17.01
Pimephales promelas	Biomass	7 day	0.068	0.041	0.44	0.54	Pass	Pass	-22.20
Pimephales promelas	Biomass	7 day	0.068	0.030	0.44	0.65	Pass	Pass	-47.49
Pimephales promelas	Biomass	7 day	0.068	0.056	0.44	0.52	Pass	Pass	-17.87
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Biomass	7 day	0.029	0.016	0.39	0.40	Pass	Pass	-3.61
Pimephales promelas	Biomass	7 day	0.029	0.010	0.39	0.42	Pass	Pass	-8.31
Pimephales promelas	Biomass	7 day	0.029	0.029	0.39	0.50	Pass	Pass	-27.77
Pimephales promelas	Survival	7 day	0.000	17.078	100.00	82.50	Fail	Pass	17.50
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	15.000	100.00	92.50	Pass	Pass	7.50
Pimephales promelas	Survival	7 day	0.000	10.000	100.00	85.00	Fail	Pass	15.00
Pimephales promelas	Survival	7 day	0.000	17.321	100.00	85.00	Fail	Pass	15.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Biomass	7 day	0.012	0.048	0.38	0.36	Pass	Pass	4.82
Pimephales promelas	Biomass	7 day	0.012	0.060	0.38	0.42	Pass	Pass	-11.82
Pimephales promelas	Biomass	7 day	0.012	0.027	0.38	0.41	Pass	Pass	-9.11
Pimephales promelas	Biomass	7 day	0.012	0.020	0.38	0.40	Pass	Pass	-5.41
Pimephales promelas	Biomass	7 day	0.012	0.056	0.38	0.37	Pass	Pass	1.06
Pimephales promelas	Biomass	7 day	0.012	0.039	0.38	0.37	Pass	Pass	3.10
Pimephales promelas	Biomass	7 day	0.012	0.031	0.38	0.41	Pass	Pass	-8.58
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Biomass	7 day	0.017	0.017	0.38	0.41	Pass	Pass	-6.31
Pimephales promelas	Biomass	7 day	0.017	0.029	0.38	0.50	Pass	Pass	-29.60
Pimephales promelas	Biomass	7 day	0.017	0.027	0.38	0.48	Pass	Pass	-24.98
Pimephales promelas	Biomass	7 day	0.017	0.017	0.38	0.47	Pass	Pass	-23.42
Pimephales promelas	Biomass	7 day	0.017	0.039	0.38	0.46	Pass	Pass	-18.93
Pimephales promelas	Biomass	7 day	0.017	0.054	0.38	0.48	Pass	Pass	-25.37
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Biomass	7 day	0.013	0.026	0.39	0.45	Pass	Pass	-13.24
Pimephales promelas	Biomass	7 day	0.013	0.043	0.39	0.53	Pass	Pass	-34.45
Pimephales promelas	Biomass	7 day	0.013	0.034	0.39	0.49	Pass	Pass	-23.69
Pimephales promelas	Biomass	7 day	0.013	0.012	0.39	0.48	Pass	Pass	-21.03
Pimephales promelas	Biomass	7 day	0.013	0.046	0.39	0.44	Pass	Pass	-11.40
Pimephales promelas	Biomass	7 day	0.013	0.043	0.39	0.51	Pass	Pass	-27.99
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	10.000	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Biomass	7 day	0.015	0.046	0.70	0.69	Pass	Pass	1.00
Pimephales promelas	Biomass	7 day	0.015	0.024	0.70	0.80	Pass	Pass	-14.25
Pimephales promelas	Biomass	7 day	0.015	0.050	0.70	0.79	Pass	Pass	-13.07

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Biomass	7 day	0.015	0.059	0.70	0.75	Pass	Pass	-7.79
Pimephales promelas	Biomass	7 day	0.015	0.027	0.70	0.85	Pass	Pass	-21.11
Pimephales promelas	Biomass	7 day	0.015	0.071	0.70	0.70	Pass	Pass	-0.25
Pimephales promelas	Biomass	7 day	0.015	0.081	0.70	0.82	Pass	Pass	-17.00
Pimephales promelas	Biomass	7 day	0.015	0.021	0.70	0.81	Pass	Pass	-16.14
Pimephales promelas	Biomass	7 day	0.015	0.018	0.70	0.84	Pass	Pass	-20.21
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Biomass	7 day	0.039	0.055	0.66	0.81	Pass	Pass	-22.40
Selenastrum capricornutum	Growth	96 hours	545377.829	8021.901	3915750.00	123057.50	Fail	Fail	96.86
Selenastrum capricornutum	Growth	96 hours	545377.829	23823.374	3915750.00	234195.00	Fail	Fail	94.02
Selenastrum capricornutum	Growth	96 hours	545377.829	915749.809	3915750.00	3259800.00	Fail	Pass	16.75
Selenastrum capricornutum	Growth	96 hours	545377.829	10283.888	3915750.00	134497.50	Fail	Fail	96.57
Selenastrum capricornutum	Growth	96 hours	545377.829	41214.659	3915750.00	335515.00	Fail	Fail	91.43
Selenastrum capricornutum	Growth	96 hours	545377.829	170997.783	3915750.00	803820.00	Fail	Fail	79.47
Selenastrum capricornutum	Growth	96 hours	545377.829	11508.287	3915750.00	153380.00	Fail	Fail	96.08
Selenastrum capricornutum	Growth	96 hours	545377.829	266566.144	3915750.00	1705625.00	Fail	Fail	56.44
Selenastrum capricornutum	Growth	96 hours	545377.829	76241.590	3915750.00	2193300.00	Fail	Fail	43.99
Selenastrum capricornutum	Growth	96 hours	545377.829	185667.667	3915750.00	3176275.00	Pass	Fail	18.88
Selenastrum capricornutum	Growth	96 hours	489608.499	314094.830	4104225.00	2874075.00	Fail	Fail	29.97
Selenastrum capricornutum	Growth	96 hours	489608.499	27918.924	4104225.00	159987.50	Fail	Fail	96.10
Selenastrum capricornutum	Growth	96 hours	489608.499	12216.681	4104225.00	149415.00	Fail	Fail	96.36
Selenastrum capricornutum	Growth	96 hours	489608.499	52132.538	4104225.00	354607.50	Fail	Fail	91.36
Selenastrum capricornutum	Growth	96 hours	489608.499	144989.236	4104225.00	912950.00	Fail	Fail	77.76
Selenastrum capricornutum	Growth	96 hours	489608.499	7526.775	4104225.00	106945.75	Fail	Fail	97.39
Selenastrum capricornutum	Growth	96 hours	489608.499	65125.098	4104225.00	617807.50	Fail	Fail	84.95
Selenastrum capricornutum	Growth	96 hours	172922.379	603012.202	3476375.00	3136975.00	Pass	Pass	9.76
Selenastrum capricornutum	Growth	96 hours	172922.379	222816.133	3476375.00	3436625.00	Pass	Pass	1.14
Selenastrum capricornutum	Growth	96 hours	172922.379	177901.405	3476375.00	3180450.00	Pass	Fail	8.51
Selenastrum capricornutum	Growth	96 hours	399387.317	194624.414	4217925.00	4661875.00	Pass	Pass	-10.53
Selenastrum capricornutum	Growth	96 hours	399387.317	361797.626	4217925.00	4912675.00	Pass	Pass	-16.47

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	399387.317	250781.357	4217925.00	4256475.00	Pass	Pass	-0.91
Selenastrum capricornutum	Growth	96 hours	399387.317	304095.380	4217925.00	4420300.00	Pass	Pass	-4.80
Selenastrum capricornutum	Growth	96 hours	399387.317	92545.930	4217925.00	2730125.00	Fail	Fail	35.27
Selenastrum capricornutum	Growth	96 hours	399387.317	246402.494	4217925.00	4949825.00	Pass	Pass	-17.35
Selenastrum capricornutum	Growth	96 hours	399387.317	301914.883	4217925.00	4453850.00	Pass	Pass	-5.59
Selenastrum capricornutum	Growth	96 hours	25746.505	147300.839	2341125.00	834515.00	Fail	Fail	64.35
Selenastrum capricornutum	Growth	96 hours	25746.505	13797.170	2341125.00	138712.50	Fail	Fail	94.07
Selenastrum capricornutum	Growth	96 hours	25746.505	16334.407	2341125.00	184260.00	Fail	Fail	92.13
Selenastrum capricornutum	Growth	96 hours	25746.505	69069.886	2341125.00	1122675.00	Fail	Fail	52.05
Selenastrum capricornutum	Growth	96 hours	25746.505	91696.416	2341125.00	417267.50	Fail	Fail	82.18
Selenastrum capricornutum	Growth	96 hours	25746.505	28013.265	2341125.00	143380.00	Fail	Fail	93.88
Selenastrum capricornutum	Growth	96 hours	195441.995	119640.768	3291900.00	2324900.00	Fail	Fail	29.38
Selenastrum capricornutum	Growth	96 hours	195441.995	100735.342	3291900.00	1191425.00	Fail	Fail	63.81
Selenastrum capricornutum	Growth	96 hours	195441.995	28795.286	3291900.00	199647.50	Fail	Fail	93.94
Selenastrum capricornutum	Growth	96 hours	195441.995	224763.689	3291900.00	2601825.00	Pass	Fail	20.96
Selenastrum capricornutum	Growth	96 hours	195441.995	13316.218	3291900.00	432320.00	Fail	Fail	86.87
Selenastrum capricornutum	Growth	96 hours	195441.995	98296.050	3291900.00	416002.50	Fail	Fail	87.36
Selenastrum capricornutum	Growth	96 hours	195441.995	111248.236	3291900.00	1849850.00	Fail	Fail	43.81
Selenastrum capricornutum	Growth	96 hours	195441.995	13183.364	3291900.00	77366.75	Fail	Fail	97.65
Selenastrum capricornutum	Growth	96 hours	195441.995	13881.652	3291900.00	33500.00	Fail	Fail	98.98
Selenastrum capricornutum	Growth	96 hours	308099.887	327373.111	3643366.50	3246720.25	Pass	Pass	10.89
Selenastrum capricornutum	Growth	96 hours	308099.887	71851.023	3643366.50	1151220.25	Fail	Fail	68.40
Selenastrum capricornutum	Growth	96 hours	308099.887	141169.332	3643366.50	2911446.75	Pass	Fail	20.09
Selenastrum capricornutum	Growth	96 hours	308099.887	398556.771	3643366.50	2923840.00	Pass	Fail	19.75
Selenastrum capricornutum	Growth	96 hours	308099.887	201070.788	3643366.50	2342893.50	Fail	Fail	35.69
Selenastrum capricornutum	Growth	96 hours	308099.887	299483.547	3643366.50	1898780.00	Fail	Fail	47.88
Selenastrum capricornutum	Growth	96 hours	308099.887	295431.487	3643366.50	2661993.50	Fail	Fail	26.94
Selenastrum capricornutum	Growth	96 hours	308099.887	615210.377	3643366.50	2778746.75	Fail	Fail	23.73
Selenastrum capricornutum	Growth	96 hours	308099.887	452391.990	3643366.50	3058719.75	Pass	Fail	16.05
Selenastrum capricornutum	Growth	96 hours	308099.887	425702.376	3643366.50	3755493.25	Pass	Pass	-3.08

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	2.767	6.110	25.90	12.00	Fail	Fail	53.67
Ceriodaphnia dubia	Reproduction	6-8 day	1.814	6.446	29.20	14.00	Fail	Fail	52.05
Ceriodaphnia dubia	Reproduction	6-8 day	1.814	5.417	29.20	19.70	Fail	Fail	32.53
Ceriodaphnia dubia	Reproduction	6-8 day	6.670	7.997	26.60	14.20	Fail	Fail	46.62
Ceriodaphnia dubia	Reproduction	6-8 day	9.534	6.332	26.00	13.90	Fail	Fail	46.54
Ceriodaphnia dubia	Reproduction	6-8 day	9.534	9.068	26.00	14.70	Fail	Fail	43.46
Ceriodaphnia dubia	Reproduction	6-8 day	2.710	4.158	27.70	17.80	Fail	Fail	35.74
Ceriodaphnia dubia	Reproduction	6-8 day	2.710	5.270	27.70	18.00	Fail	Fail	35.02
Ceriodaphnia dubia	Reproduction	6-8 day	2.710	3.596	27.70	19.60	Fail	Fail	29.24
Ceriodaphnia dubia	Reproduction	6-8 day	4.968	6.529	31.70	12.20	Fail	Fail	61.51
Ceriodaphnia dubia	Reproduction	6-8 day	4.968	4.962	31.70	16.20	Fail	Fail	48.90
Ceriodaphnia dubia	Reproduction	6-8 day	5.148	5.507	15.50	8.10	Fail	Fail	47.74
Ceriodaphnia dubia	Reproduction	6-8 day	5.148	7.249	15.50	16.10	Pass	Pass	-3.87
Ceriodaphnia dubia	Reproduction	6-8 day	5.148	6.363	15.50	16.60	Pass	Pass	-7.10
Ceriodaphnia dubia	Reproduction	6-8 day	5.148	5.405	15.50	9.10	Fail	Fail	41.29
Ceriodaphnia dubia	Reproduction	6-8 day	5.148	5.122	15.50	27.30	Pass	Pass	-76.13
Ceriodaphnia dubia	Reproduction	6-8 day	5.343	10.944	28.10	28.00	Pass	Pass	0.36
Ceriodaphnia dubia	Reproduction	6-8 day	5.343	6.819	28.10	35.50	Pass	Pass	-26.33
Ceriodaphnia dubia	Reproduction	6-8 day	5.343	1.889	28.10	36.30	Pass	Pass	-29.18
Ceriodaphnia dubia	Reproduction	6-8 day	5.343	2.757	28.10	37.40	Pass	Pass	-33.10
Ceriodaphnia dubia	Reproduction	6-8 day	5.343	6.114	28.10	41.40	Pass	Pass	-47.33
Ceriodaphnia dubia	Reproduction	6-8 day	3.706	2.936	27.80	29.80	Pass	Pass	-7.19
Ceriodaphnia dubia	Reproduction	6-8 day	2.821	3.011	23.20	26.80	Pass	Pass	-15.52
Ceriodaphnia dubia	Reproduction	6-8 day	7.084	6.498	21.80	25.00	Pass	Pass	-14.68
Ceriodaphnia dubia	Reproduction	6-8 day	7.084	4.546	21.80	29.00	Pass	Pass	-33.03
Ceriodaphnia dubia	Reproduction	6-8 day	7.084	4.296	21.80	24.30	Pass	Pass	-11.47
Ceriodaphnia dubia	Reproduction	6-8 day	2.915	5.122	22.50	11.30	Fail	Fail	49.78
Ceriodaphnia dubia	Reproduction	6-8 day	2.915	4.473	22.50	23.30	Pass	Pass	-3.56
Ceriodaphnia dubia	Reproduction	6-8 day	2.915	5.061	22.50	11.50	Fail	Fail	48.89
Ceriodaphnia dubia	Reproduction	6-8 day	2.915	7.930	22.50	20.00	Pass	Pass	11.11

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	2.915	3.843	22.50	20.10	Pass	Pass	10.67
Ceriodaphnia dubia	Reproduction	6-8 day	2.767	7.212	25.90	16.70	Fail	Fail	35.52
Ceriodaphnia dubia	Reproduction	6-8 day	2.767	6.093	25.90	17.30	Fail	Fail	33.20
Ceriodaphnia dubia	Reproduction	6-8 day	4.447	8.690	30.00	22.20	Fail	Fail	26.00
Ceriodaphnia dubia	Reproduction	6-8 day	1.814	9.348	29.20	24.60	Pass	Pass	15.75
Ceriodaphnia dubia	Reproduction	6-8 day	1.814	4.028	29.20	8.00	Fail	Fail	72.60
Ceriodaphnia dubia	Reproduction	6-8 day	1.814	7.484	29.20	24.30	Pass	Fail	16.78
Ceriodaphnia dubia	Reproduction	6-8 day	3.034	7.442	26.05	26.60	Pass	Pass	-2.11
Ceriodaphnia dubia	Reproduction	6-8 day	3.034	8.417	26.05	30.80	Pass	Pass	-18.23
Ceriodaphnia dubia	Reproduction	6-8 day	3.034	6.133	26.05	27.50	Pass	Pass	-5.57
Ceriodaphnia dubia	Reproduction	6-8 day	3.034	3.635	26.05	28.10	Pass	Pass	-7.87
Ceriodaphnia dubia	Reproduction	6-8 day	3.034	6.680	26.05	22.20	Pass	Pass	14.78
Ceriodaphnia dubia	Reproduction	6-8 day	3.034	6.550	26.05	28.70	Pass	Pass	-10.17
Ceriodaphnia dubia	Reproduction	6-8 day	3.034	5.461	26.05	20.60	Fail	Fail	20.92
Ceriodaphnia dubia	Reproduction	6-8 day	9.669	11.983	17.70	26.60	Pass	Pass	-50.28
Ceriodaphnia dubia	Reproduction	6-8 day	9.669	3.302	17.70	22.70	Pass	Pass	-28.25
Ceriodaphnia dubia	Reproduction	6-8 day	9.669	7.087	17.70	27.00	Pass	Pass	-52.54
Ceriodaphnia dubia	Reproduction	6-8 day	9.669	4.551	17.70	30.40	Pass	Pass	-71.75
Ceriodaphnia dubia	Reproduction	6-8 day	9.669	1.955	17.70	29.40	Pass	Pass	-66.10
Ceriodaphnia dubia	Reproduction	6-8 day	3.426	4.662	30.45	40.20	Pass	Pass	-32.02
Ceriodaphnia dubia	Reproduction	6-8 day	3.426	3.232	30.45	42.00	Pass	Pass	-37.93
Ceriodaphnia dubia	Reproduction	6-8 day	3.426	2.331	30.45	39.90	Pass	Pass	-31.03
Ceriodaphnia dubia	Reproduction	6-8 day	3.426	2.875	30.45	41.60	Pass	Pass	-36.62
Ceriodaphnia dubia	Reproduction	6-8 day	3.646	5.832	24.65	11.30	Fail	Fail	54.16
Ceriodaphnia dubia	Reproduction	6-8 day	3.646	3.225	24.65	33.80	Pass	Pass	-37.12
Ceriodaphnia dubia	Reproduction	6-8 day	3.646	6.667	24.65	31.30	Pass	Pass	-26.98
Ceriodaphnia dubia	Reproduction	6-8 day	3.646	6.190	24.65	23.10	Pass	Pass	6.29
Ceriodaphnia dubia	Reproduction	6-8 day	3.646	6.381	24.65	36.40	Pass	Pass	-47.67
Ceriodaphnia dubia	Reproduction	6-8 day	10.834	2.119	32.40	36.60	Pass	Pass	-12.96
Ceriodaphnia dubia	Reproduction	6-8 day	10.834	3.900	32.40	40.90	Pass	Pass	-26.23

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	10.834	10.679	32.40	29.60	Pass	Fail	8.64
Ceriodaphnia dubia	Reproduction	6-8 day	10.834	3.615	32.40	40.20	Pass	Pass	-24.07
Ceriodaphnia dubia	Reproduction	6-8 day	10.834	1.989	32.40	32.80	Pass	Pass	-1.23
Ceriodaphnia dubia	Reproduction	6-8 day	10.834	3.706	32.40	42.20	Pass	Pass	-30.25
Ceriodaphnia dubia	Reproduction	6-8 day	10.834	2.271	32.40	37.40	Pass	Pass	-15.43
Ceriodaphnia dubia	Reproduction	6-8 day	1.900	2.838	34.50	40.50	Pass	Pass	-17.39
Ceriodaphnia dubia	Reproduction	6-8 day	1.900	2.582	34.50	37.00	Pass	Pass	-7.25
Ceriodaphnia dubia	Reproduction	6-8 day	1.900	3.604	34.50	32.90	Pass	Pass	4.64
Ceriodaphnia dubia	Reproduction	6-8 day	1.900	4.472	34.50	37.00	Pass	Pass	-7.25
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	23.805	100.00	85.00	Fail	Pass	15.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	23.094	100.00	80.00	Fail	Pass	20.00
Pimephales promelas	Biomass	7 day	0.036	0.024	0.44	0.48	Pass	Pass	-9.63
Pimephales promelas	Biomass	7 day	0.036	0.123	0.44	0.44	Pass	Pass	-1.23
Pimephales promelas	Biomass	7 day	0.036	0.026	0.44	0.46	Pass	Pass	-4.20
Pimephales promelas	Biomass	7 day	0.036	0.098	0.44	0.39	Pass	Pass	10.32
Pimephales promelas	Survival	7 day	4.629	16.856	97.50	88.58	Pass	Pass	9.15
Pimephales promelas	Survival	7 day	4.629	4.550	97.50	97.73	Pass	Pass	-0.23
Pimephales promelas	Survival	7 day	4.629	29.466	97.50	79.38	Fail	Pass	18.59
Pimephales promelas	Survival	7 day	4.629	9.574	97.50	92.50	Pass	Pass	5.13
Pimephales promelas	Survival	7 day	4.629	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	38.622	100.00	77.50	Fail	Pass	22.50
Pimephales promelas	Survival	7 day	0.000	25.000	100.00	87.50	Pass	Pass	12.50
Pimephales promelas	Survival	7 day	0.000	15.707	100.00	89.18	Pass	Pass	10.83
Pimephales promelas	Biomass	7 day	0.036	0.038	0.47	0.48	Pass	Pass	-3.52
Pimephales promelas	Biomass	7 day	0.036	0.175	0.47	0.43	Pass	Pass	9.02
Pimephales promelas	Biomass	7 day	0.036	0.089	0.47	0.44	Pass	Pass	6.46
Pimephales promelas	Biomass	7 day	0.036	0.059	0.47	0.49	Pass	Pass	-5.13

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	4.419	5.000	98.44	97.50	Pass	Pass	0.95
Pimephales promelas	Survival	7 day	4.419	0.000	98.44	100.00	Pass	Pass	-1.59
Pimephales promelas	Survival	7 day	4.419	0.000	98.44	100.00	Pass	Pass	-1.59
Pimephales promelas	Biomass	7 day	0.046	0.029	0.52	0.50	Pass	Pass	4.61
Pimephales promelas	Biomass	7 day	0.046	0.016	0.52	0.52	Pass	Pass	0.19
Pimephales promelas	Biomass	7 day	0.046	0.036	0.52	0.49	Pass	Pass	5.81
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Biomass	7 day	0.025	0.047	0.43	0.44	Pass	Pass	-4.17
Pimephales promelas	Biomass	7 day	0.025	0.033	0.43	0.46	Pass	Pass	-7.05
Pimephales promelas	Biomass	7 day	0.025	0.052	0.43	0.41	Pass	Pass	2.47
Pimephales promelas	Biomass	7 day	0.025	0.006	0.43	0.46	Pass	Pass	-9.29
Pimephales promelas	Biomass	7 day	0.025	0.027	0.43	0.47	Pass	Pass	-11.29
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	9.574	100.00	92.50	Pass	Pass	7.50
Pimephales promelas	Biomass	7 day	0.038	0.053	0.44	0.45	Pass	Pass	-1.86
Pimephales promelas	Biomass	7 day	0.038	0.115	0.44	0.54	Pass	Pass	-21.82
Pimephales promelas	Biomass	7 day	0.038	0.023	0.44	0.61	Pass	Pass	-36.58
Pimephales promelas	Biomass	7 day	0.038	0.019	0.44	0.51	Pass	Pass	-15.39
Pimephales promelas	Biomass	7 day	0.038	0.040	0.44	0.47	Pass	Pass	-6.99
Pimephales promelas	Biomass	7 day	0.038	0.022	0.44	0.47	Pass	Pass	-5.69
Pimephales promelas	Biomass	7 day	0.038	0.071	0.44	0.47	Pass	Pass	-4.85

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	5.774	5.000	95.00	97.50	Pass	Pass	-2.63
Pimephales promelas	Survival	7 day	5.774	5.000	95.00	97.50	Pass	Pass	-2.63
Pimephales promelas	Survival	7 day	5.774	5.000	95.00	97.50	Pass	Pass	-2.63
Pimephales promelas	Survival	7 day	5.774	0.000	95.00	100.00	Pass	Pass	-5.26
Pimephales promelas	Survival	7 day	5.774	0.000	95.00	100.00	Pass	Pass	-5.26
Pimephales promelas	Biomass	7 day	0.043	0.069	0.44	0.50	Pass	Pass	-13.14
Pimephales promelas	Biomass	7 day	0.043	0.035	0.44	0.47	Pass	Pass	-8.00
Pimephales promelas	Biomass	7 day	0.043	0.032	0.44	0.44	Pass	Pass	-1.14
Pimephales promelas	Biomass	7 day	0.043	0.086	0.44	0.45	Pass	Pass	-2.29
Pimephales promelas	Biomass	7 day	0.043	0.026	0.44	0.54	Pass	Pass	-23.43
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Biomass	7 day	0.035	0.009	0.49	0.53	Pass	Pass	-9.00
Pimephales promelas	Biomass	7 day	0.035	0.023	0.49	0.50	Pass	Pass	-1.23
Pimephales promelas	Biomass	7 day	0.035	0.054	0.49	0.53	Pass	Pass	-7.57
Pimephales promelas	Biomass	7 day	0.035	0.015	0.49	0.55	Pass	Pass	-12.58
Pimephales promelas	Biomass	7 day	0.035	0.013	0.49	0.53	Pass	Pass	-7.41
Pimephales promelas	Biomass	7 day	0.035	0.035	0.49	0.56	Pass	Pass	-13.60
Pimephales promelas	Biomass	7 day	0.035	0.024	0.49	0.53	Pass	Pass	-7.87
Pimephales promelas	Biomass	7 day	0.035	0.061	0.49	0.55	Pass	Pass	-12.17
Pimephales promelas	Biomass	7 day	0.035	0.027	0.49	0.51	Pass	Pass	-4.60
Pimephales promelas	Biomass	7 day	0.035	0.038	0.49	0.53	Pass	Pass	-7.41

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	141867.521	116458.691	1935625.00	1431400.00	Fail	Fail	26.05
Selenastrum capricornutum	Growth	96 hours	141867.521	68636.822	1935625.00	1735800.00	Pass	Fail	10.32
Selenastrum capricornutum	Growth	96 hours	141867.521	97997.449	1935625.00	1938700.00	Pass	Pass	-0.16
Selenastrum capricornutum	Growth	96 hours	141867.521	120449.395	1935625.00	1758650.00	Pass	Fail	9.14
Selenastrum capricornutum	Growth	96 hours	141867.521	170815.534	1935625.00	1932200.00	Pass	Pass	0.18
Selenastrum capricornutum	Growth	96 hours	141867.521	200404.547	1935625.00	1878275.00	Pass	Pass	2.96
Selenastrum capricornutum	Growth	96 hours	141867.521	99492.491	1935625.00	1815275.00	Pass	Pass	6.22
Selenastrum capricornutum	Growth	96 hours	78815.281	184758.265	2683750.00	3381450.00	Pass	Pass	-26.00
Selenastrum capricornutum	Growth	96 hours	78815.281	338573.754	2683750.00	2421600.00	Pass	Pass	9.77
Selenastrum capricornutum	Growth	96 hours	78815.281	569492.786	2683750.00	3606200.00	Pass	Pass	-34.37
Selenastrum capricornutum	Growth	96 hours	78815.281	360603.257	2683750.00	3927925.00	Pass	Pass	-46.36
Selenastrum capricornutum	Growth	96 hours	78815.281	295407.023	2683750.00	3926175.00	Pass	Pass	-46.29
Selenastrum capricornutum	Growth	96 hours	180707.805	103397.518	1849575.00	1663300.00	Pass	Fail	10.07
Selenastrum capricornutum	Growth	96 hours	180707.805	172676.159	1849575.00	1594125.00	Pass	Fail	13.81
Selenastrum capricornutum	Growth	96 hours	180707.805	92823.574	1849575.00	1500925.00	Pass	Fail	18.85
Selenastrum capricornutum	Growth	96 hours	180707.805	247966.523	1849575.00	1890650.00	Pass	Pass	-2.22
Selenastrum capricornutum	Growth	96 hours	110171.603	281260.040	2118325.00	1991650.00	Pass	Pass	5.98
Selenastrum capricornutum	Growth	96 hours	110171.603	175957.495	2118325.00	1702500.00	Pass	Fail	19.63
Selenastrum capricornutum	Growth	96 hours	110171.603	76702.341	2118325.00	2497575.00	Pass	Pass	-17.90
Selenastrum capricornutum	Growth	96 hours	110171.603	120686.384	2118325.00	1995150.00	Pass	Pass	5.81
Selenastrum capricornutum	Growth	96 hours	110171.603	104446.892	2118325.00	1378300.00	Fail	Fail	34.93
Selenastrum capricornutum	Growth	96 hours	212555.991	131978.660	1596825.00	2286700.00	Pass	Pass	-43.20
Selenastrum capricornutum	Growth	96 hours	212555.991	164261.367	1596825.00	2148250.00	Pass	Pass	-34.53
Selenastrum capricornutum	Growth	96 hours	212555.991	236125.043	1596825.00	2271375.00	Pass	Pass	-42.24
Selenastrum capricornutum	Growth	96 hours	212555.991	69689.089	1596825.00	1486425.00	Pass	Pass	6.91
Selenastrum capricornutum	Growth	96 hours	212555.991	73759.675	1596825.00	425715.00	Fail	Fail	73.34
Selenastrum capricornutum	Growth	96 hours	212555.991	337189.101	1596825.00	2165950.00	Pass	Pass	-35.64
Selenastrum capricornutum	Growth	96 hours	212555.991	288147.316	1596825.00	2214775.00	Pass	Pass	-38.70
Selenastrum capricornutum	Growth	96 hours	212555.991	191507.380	1596825.00	2122750.00	Pass	Pass	-32.94
Selenastrum capricornutum	Growth	96 hours	212555.991	192874.277	1596825.00	2724700.00	Pass	Pass	-70.63

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	212555.991	230009.985	1596825.00	2028600.00	Pass	Pass	-27.04
Selenastrum capricornutum	Growth	96 hours	212555.991	192181.432	1596825.00	1165807.50	Fail	Fail	26.99
Selenastrum capricornutum	Growth	96 hours	212555.991	116655.401	1596825.00	2424625.00	Pass	Pass	-51.84
Selenastrum capricornutum	Growth	96 hours	190042.002	51827.687	2195925.00	3312525.00	Pass	Pass	-50.85
Selenastrum capricornutum	Growth	96 hours	190042.002	403402.950	2195925.00	3051200.00	Pass	Pass	-38.95
Selenastrum capricornutum	Growth	96 hours	190042.002	246518.483	2195925.00	3079875.00	Pass	Pass	-40.25
Selenastrum capricornutum	Growth	96 hours	190042.002	139190.768	2195925.00	3330950.00	Pass	Pass	-51.69
Selenastrum capricornutum	Growth	96 hours	190042.002	102886.973	2195925.00	3494825.00	Pass	Pass	-59.15
Selenastrum capricornutum	Growth	96 hours	190042.002	70794.421	2195925.00	3458850.00	Pass	Pass	-57.51
Selenastrum capricornutum	Growth	96 hours	190042.002	248610.901	2195925.00	2983000.00	Pass	Pass	-35.84
Selenastrum capricornutum	Growth	96 hours	190042.002	118281.050	2195925.00	648292.50	Fail	Fail	70.48
Selenastrum capricornutum	Growth	96 hours	190042.002	220988.708	2195925.00	2931925.00	Pass	Pass	-33.52
Selenastrum capricornutum	Growth	96 hours	190042.002	228005.137	2195925.00	3091875.00	Pass	Pass	-40.80
Ceriodaphnia dubia	Reproduction	6-8 day	1.698	5.877	22.40	19.10	Pass	Pass	14.73
Ceriodaphnia dubia	Reproduction	6-8 day	1.698	6.019	22.40	15.70	Fail	Fail	29.91
Ceriodaphnia dubia	Reproduction	6-8 day	1.698	3.399	22.40	21.00	Pass	Pass	6.25
Ceriodaphnia dubia	Reproduction	6-8 day	1.698	0.000	22.40	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	5.669	5.466	19.61	17.10	Pass	Pass	12.80
Ceriodaphnia dubia	Reproduction	6-8 day	5.669	5.547	19.61	17.90	Pass	Pass	8.73
Ceriodaphnia dubia	Reproduction	6-8 day	5.669	0.000	19.61	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	5.875	4.927	24.10	14.50	Fail	Fail	39.83
Ceriodaphnia dubia	Reproduction	6-8 day	5.875	8.904	24.10	15.80	Fail	Fail	34.44
Ceriodaphnia dubia	Reproduction	6-8 day	5.875	7.200	24.10	17.50	Fail	Fail	27.39
Ceriodaphnia dubia	Reproduction	6-8 day	5.875	0.000	24.10	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	7.938	5.754	18.80	18.00	Pass	Pass	4.26
Ceriodaphnia dubia	Reproduction	6-8 day	7.938	6.290	18.80	17.30	Pass	Pass	7.98
Ceriodaphnia dubia	Reproduction	6-8 day	7.938	5.759	18.80	20.50	Pass	Pass	-9.04
Ceriodaphnia dubia	Reproduction	6-8 day	2.601	8.430	24.90	20.20	Fail	Pass	18.88
Ceriodaphnia dubia	Reproduction	6-8 day	2.601	6.088	24.90	27.20	Pass	Pass	-9.24
Ceriodaphnia dubia	Reproduction	6-8 day	4.153	2.404	22.84	21.00	Pass	Fail	8.06

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	4.153	4.606	22.84	18.90	Pass	Fail	17.26
Ceriodaphnia dubia	Reproduction	6-8 day	4.153	3.590	22.84	26.00	Pass	Pass	-13.82
Ceriodaphnia dubia	Reproduction	6-8 day	4.153	3.281	22.84	20.10	Pass	Fail	12.00
Ceriodaphnia dubia	Reproduction	6-8 day	4.978	6.816	22.60	19.70	Pass	Pass	12.83
Ceriodaphnia dubia	Reproduction	6-8 day	4.978	8.316	22.60	21.40	Pass	Pass	5.31
Ceriodaphnia dubia	Reproduction	6-8 day	4.528	7.729	26.50	20.20	Fail	Fail	23.77
Ceriodaphnia dubia	Reproduction	6-8 day	4.528	10.200	26.50	27.40	Pass	Pass	-3.40
Ceriodaphnia dubia	Reproduction	6-8 day	6.818	5.567	21.40	21.10	Pass	Pass	1.40
Ceriodaphnia dubia	Reproduction	6-8 day	6.818	8.672	21.40	28.10	Pass	Pass	-31.31
Ceriodaphnia dubia	Reproduction	6-8 day	6.818	11.047	21.40	29.40	Pass	Pass	-37.38
Ceriodaphnia dubia	Reproduction	6-8 day	6.818	11.053	21.40	24.80	Pass	Pass	-15.89
Ceriodaphnia dubia	Reproduction	6-8 day	9.275	9.386	22.44	24.90	Pass	Pass	-10.94
Ceriodaphnia dubia	Reproduction	6-8 day	9.275	4.503	22.44	21.50	Pass	Pass	4.21
Ceriodaphnia dubia	Reproduction	6-8 day	3.528	2.944	27.00	29.00	Pass	Pass	-7.41
Ceriodaphnia dubia	Reproduction	6-8 day	3.528	0.000	27.00	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	2.271	5.466	26.60	23.90	Pass	Pass	10.15
Ceriodaphnia dubia	Reproduction	6-8 day	1.542	5.147	20.80	17.40	Pass	Fail	16.35
Ceriodaphnia dubia	Reproduction	6-8 day	1.542	3.127	20.80	4.00	Fail	Fail	80.77
Ceriodaphnia dubia	Reproduction	6-8 day	1.542	4.624	20.80	20.40	Pass	Pass	1.92
Ceriodaphnia dubia	Reproduction	6-8 day	9.877	3.047	24.00	3.57	Fail	Fail	85.12
Ceriodaphnia dubia	Reproduction	6-8 day	7.833	5.122	24.25	15.70	Fail	Fail	35.26
Ceriodaphnia dubia	Reproduction	6-8 day	7.833	0.000	24.25	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	7.833	6.579	24.25	7.80	Fail	Fail	67.84
Ceriodaphnia dubia	Reproduction	6-8 day	3.882	4.473	17.20	25.30	Pass	Pass	-47.09
Ceriodaphnia dubia	Reproduction	6-8 day	3.882	3.536	17.20	3.67	Fail	Fail	78.68
Ceriodaphnia dubia	Reproduction	6-8 day	3.882	5.038	17.20	11.40	Fail	Fail	33.72
Ceriodaphnia dubia	Reproduction	6-8 day	7.453	12.249	24.87	15.40	Fail	Pass	38.07
Ceriodaphnia dubia	Reproduction	6-8 day	7.453	0.000	24.87	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	9.805	3.408	20.15	23.50	Pass	Pass	-16.63
Ceriodaphnia dubia	Reproduction	6-8 day	9.805	7.699	20.15	11.56	Fail	Fail	42.65

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	9.805	4.977	20.15	13.90	Fail	Fail	31.02
Ceriodaphnia dubia	Reproduction	6-8 day	9.805	7.194	20.15	23.67	Pass	Pass	-17.45
Ceriodaphnia dubia	Reproduction	6-8 day	6.824	7.348	22.40	7.00	Fail	Fail	68.75
Ceriodaphnia dubia	Reproduction	6-8 day	6.824	0.000	22.40	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	6.824	7.334	22.40	19.70	Pass	Pass	12.05
Ceriodaphnia dubia	Reproduction	6-8 day	6.824	0.000	22.40	0.00	Fail	Fail	100.00
Pimephales promelas	Survival	7 day	5.175	9.574	93.75	92.50	Pass	Pass	1.33
Pimephales promelas	Survival	7 day	5.175	8.165	93.75	90.00	Pass	Pass	4.00
Pimephales promelas	Survival	7 day	5.175	37.859	93.75	75.00	Fail	Pass	20.00
Pimephales promelas	Survival	7 day	5.175	0.000	93.75	100.00	Pass	Pass	-6.67
Pimephales promelas	Biomass	7 day	0.029	0.030	0.25	0.31	Pass	Pass	-21.31
Pimephales promelas	Biomass	7 day	0.029	0.028	0.25	0.28	Pass	Pass	-10.08
Pimephales promelas	Biomass	7 day	0.029	0.130	0.25	0.22	Fail	Pass	14.36
Pimephales promelas	Biomass	7 day	0.029	0.026	0.25	0.28	Pass	Pass	-11.18
Pimephales promelas	Survival	7 day	7.071	5.000	92.50	92.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	7.071	14.142	92.50	90.00	Pass	Pass	2.70
Pimephales promelas	Survival	7 day	7.071	5.000	92.50	97.50	Pass	Pass	-5.41
Pimephales promelas	Biomass	7 day	0.031	0.024	0.31	0.34	Pass	Pass	-12.05
Pimephales promelas	Biomass	7 day	0.031	0.025	0.31	0.37	Pass	Pass	-20.20
Pimephales promelas	Biomass	7 day	0.031	0.053	0.31	0.34	Pass	Pass	-10.75
Pimephales promelas	Survival	7 day	3.536	0.000	98.75	100.00	Pass	Pass	-1.27
Pimephales promelas	Survival	7 day	3.536	9.574	98.75	92.50	Pass	Pass	6.33
Pimephales promelas	Survival	7 day	3.536	0.000	98.75	100.00	Pass	Pass	-1.27
Pimephales promelas	Survival	7 day	3.536	5.000	98.75	97.50	Pass	Pass	1.27
Pimephales promelas	Biomass	7 day	0.018	0.016	0.30	0.32	Pass	Pass	-3.65
Pimephales promelas	Biomass	7 day	0.018	0.061	0.30	0.28	Pass	Pass	7.84
Pimephales promelas	Biomass	7 day	0.018	0.027	0.30	0.31	Pass	Pass	-1.03
Pimephales promelas	Biomass	7 day	0.018	0.010	0.30	0.29	Pass	Pass	4.06
Pimephales promelas	Survival	7 day	4.893	5.000	97.36	97.50	Pass	Pass	-0.14
Pimephales promelas	Survival	7 day	4.893	5.000	97.36	97.50	Pass	Pass	-0.14

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	4.893	5.000	97.36	97.50	Pass	Pass	-0.14
Pimephales promelas	Biomass	7 day	0.014	0.009	0.27	0.31	Pass	Pass	-15.89
Pimephales promelas	Biomass	7 day	0.014	0.024	0.27	0.26	Pass	Pass	2.51
Pimephales promelas	Biomass	7 day	0.014	0.023	0.27	0.24	Pass	Fail	9.85
Pimephales promelas	Survival	7 day	5.345	10.000	95.00	85.00	Pass	Pass	10.53
Pimephales promelas	Survival	7 day	5.345	5.000	95.00	97.50	Pass	Pass	-2.63
Pimephales promelas	Survival	7 day	5.345	5.000	95.00	97.50	Pass	Pass	-2.63
Pimephales promelas	Survival	7 day	5.345	5.000	95.00	97.50	Pass	Pass	-2.63
Pimephales promelas	Survival	7 day	5.345	5.774	95.00	95.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.345	0.000	95.00	100.00	Pass	Pass	-5.26
Pimephales promelas	Biomass	7 day	0.027	0.031	0.27	0.27	Pass	Pass	1.42
Pimephales promelas	Biomass	7 day	0.027	0.037	0.27	0.28	Pass	Pass	-1.88
Pimephales promelas	Biomass	7 day	0.027	0.028	0.27	0.28	Pass	Pass	-2.16
Pimephales promelas	Biomass	7 day	0.027	0.027	0.27	0.27	Pass	Pass	-0.78
Pimephales promelas	Biomass	7 day	0.027	0.015	0.27	0.27	Pass	Pass	2.43
Pimephales promelas	Biomass	7 day	0.027	0.005	0.27	0.32	Pass	Pass	-16.11
Pimephales promelas	Survival	7 day	6.409	5.774	91.25	95.00	Pass	Pass	-4.11
Pimephales promelas	Survival	7 day	6.409	8.165	91.25	80.00	Pass	Fail	12.33
Pimephales promelas	Biomass	7 day	0.026	0.038	0.24	0.26	Pass	Pass	-7.53
Pimephales promelas	Biomass	7 day	0.026	0.043	0.24	0.23	Pass	Pass	5.46
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Biomass	7 day	0.014	0.021	0.33	0.33	Pass	Pass	-2.08
Pimephales promelas	Biomass	7 day	0.014	0.008	0.33	0.36	Pass	Pass	-9.68
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Biomass	7 day	0.026	0.069	0.47	0.57	Pass	Pass	-21.81
Pimephales promelas	Biomass	7 day	0.026	0.044	0.47	0.50	Pass	Pass	-5.32

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Biomass	7 day	0.026	0.036	0.47	0.52	Pass	Pass	-11.17
Pimephales promelas	Biomass	7 day	0.026	0.059	0.47	0.54	Pass	Pass	-14.89
Pimephales promelas	Survival	7 day	5.000	5.000	92.50	97.50	Pass	Pass	-5.41
Pimephales promelas	Survival	7 day	5.000	0.000	92.50	100.00	Pass	Pass	-8.11
Pimephales promelas	Biomass	7 day	0.033	0.051	0.47	0.54	Pass	Pass	-15.05
Pimephales promelas	Biomass	7 day	0.033	0.026	0.47	0.56	Pass	Pass	-20.97
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Biomass	7 day	0.029	0.033	0.22	0.26	Pass	Pass	-18.45
Pimephales promelas	Biomass	7 day	0.029	0.011	0.22	0.21	Pass	Pass	2.65
Pimephales promelas	Survival	7 day	15.000	9.323	92.50	82.25	Fail	Pass	11.08
Pimephales promelas	Survival	7 day	15.000	5.774	92.50	95.00	Pass	Pass	-2.70
Pimephales promelas	Survival	7 day	15.000	5.774	92.50	95.00	Pass	Pass	-2.70
Pimephales promelas	Biomass	7 day	0.036	0.045	0.24	0.21	Pass	Pass	12.26
Pimephales promelas	Biomass	7 day	0.036	0.026	0.24	0.22	Pass	Pass	8.58
Pimephales promelas	Biomass	7 day	0.036	0.014	0.24	0.28	Pass	Pass	-12.46
Pimephales promelas	Survival	7 day	5.175	14.387	96.25	83.50	Pass	Pass	13.25
Pimephales promelas	Survival	7 day	5.175	11.547	96.25	90.00	Pass	Pass	6.49
Pimephales promelas	Survival	7 day	5.175	5.000	96.25	92.50	Pass	Pass	3.90
Pimephales promelas	Biomass	7 day	0.026	0.051	0.33	0.30	Pass	Pass	7.73
Pimephales promelas	Biomass	7 day	0.026	0.021	0.33	0.35	Pass	Pass	-6.36
Pimephales promelas	Biomass	7 day	0.026	0.044	0.33	0.34	Pass	Pass	-2.76
Pimephales promelas	Survival	7 day	5.000	14.142	97.50	90.00	Pass	Pass	7.69
Pimephales promelas	Biomass	7 day	0.027	0.065	0.33	0.30	Pass	Pass	6.81
Pimephales promelas	Survival	7 day	4.629	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	4.629	5.000	97.50	92.50	Pass	Pass	5.13
Pimephales promelas	Survival	7 day	4.629	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Biomass	7 day	0.042	0.025	0.42	0.39	Pass	Pass	7.55
Pimephales promelas	Biomass	7 day	0.042	0.004	0.42	0.41	Pass	Pass	1.52
Pimephales promelas	Biomass	7 day	0.042	0.040	0.42	0.42	Pass	Pass	0.63

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	5.000	9.574	97.50	92.50	Pass	Pass	5.13
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Biomass	7 day	0.021	0.038	0.39	0.42	Pass	Pass	-8.01
Pimephales promelas	Biomass	7 day	0.021	0.022	0.39	0.38	Pass	Pass	1.99
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Biomass	7 day	0.054	0.030	0.42	0.45	Pass	Pass	-6.77
Pimephales promelas	Biomass	7 day	0.054	0.075	0.42	0.50	Pass	Pass	-18.00
Pimephales promelas	Biomass	7 day	0.054	0.044	0.42	0.46	Pass	Pass	-8.72
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Biomass	7 day	0.035	0.043	0.42	0.41	Pass	Pass	2.53
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	0.00	Fail	Fail	100.00
Pimephales promelas	Biomass	7 day	0.022	0.040	0.43	0.49	Pass	Pass	-13.68
Pimephales promelas	Biomass	7 day	0.022	0.023	0.43	0.51	Pass	Pass	-17.26
Pimephales promelas	Biomass	7 day	0.022	0.000	0.43	0.00	Fail	Fail	100.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Biomass	7 day	0.036	0.041	0.51	0.49	Pass	Pass	3.15
Ceriodaphnia dubia	Reproduction	6-8 day	6.839	6.250	13.90	22.80	Pass	Pass	-64.03
Ceriodaphnia dubia	Reproduction	6-8 day	6.839	5.562	13.90	14.60	Pass	Pass	-5.04
Ceriodaphnia dubia	Reproduction	6-8 day	5.442	7.781	18.50	15.90	Fail	Pass	14.05
Ceriodaphnia dubia	Reproduction	6-8 day	5.442	9.240	18.50	28.40	Pass	Pass	-53.51
Ceriodaphnia dubia	Reproduction	6-8 day	5.442	5.280	18.50	30.90	Pass	Pass	-67.03
Ceriodaphnia dubia	Reproduction	6-8 day	5.442	4.290	18.50	20.20	Pass	Pass	-9.19
Ceriodaphnia dubia	Reproduction	6-8 day	5.442	4.944	18.50	25.00	Pass	Pass	-35.14
Ceriodaphnia dubia	Reproduction	6-8 day	6.816	4.163	25.70	21.00	Fail	Fail	18.29
Ceriodaphnia dubia	Reproduction	6-8 day	6.816	5.397	25.70	27.70	Pass	Pass	-7.78
Ceriodaphnia dubia	Reproduction	6-8 day	2.966	7.688	27.20	25.00	Pass	Pass	8.09

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	2.966	7.923	27.20	24.10	Pass	Pass	11.40
Ceriodaphnia dubia	Reproduction	6-8 day	2.966	6.707	27.20	23.10	Pass	Fail	15.07
Ceriodaphnia dubia	Reproduction	6-8 day	6.019	5.255	16.30	6.89	Fail	Fail	57.74
Ceriodaphnia dubia	Reproduction	6-8 day	6.019	6.960	16.30	33.78	Pass	Pass	-107.23
Ceriodaphnia dubia	Reproduction	6-8 day	8.738	11.351	29.60	26.80	Pass	Pass	9.46
Ceriodaphnia dubia	Reproduction	6-8 day	8.738	7.177	29.60	32.80	Pass	Pass	-10.81
Ceriodaphnia dubia	Reproduction	6-8 day	8.738	8.276	29.60	30.40	Pass	Pass	-2.70
Ceriodaphnia dubia	Reproduction	6-8 day	6.750	7.040	28.90	15.00	Fail	Fail	48.10
Ceriodaphnia dubia	Reproduction	6-8 day	6.750	4.408	28.90	21.10	Fail	Fail	26.99
Ceriodaphnia dubia	Reproduction	6-8 day	3.887	8.603	29.00	9.30	Fail	Fail	67.93
Pimephales promelas	Survival	7 day	5.000	9.574	97.50	7.50	Fail	Fail	92.31
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Biomass	7 day	0.031	0.022	0.48	0.02	Fail	Fail	96.79
Pimephales promelas	Biomass	7 day	0.031	0.015	0.48	0.50	Pass	Pass	-3.11
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Biomass	7 day	0.028	0.053	0.54	0.67	Pass	Pass	-22.58
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	4.629	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	4.629	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Biomass	7 day	0.050	0.040	0.48	0.45	Pass	Pass	7.75
Pimephales promelas	Biomass	7 day	0.050	0.026	0.48	0.51	Pass	Pass	-5.89
Pimephales promelas	Survival	7 day	7.440	5.000	96.25	92.50	Pass	Pass	3.90
Pimephales promelas	Survival	7 day	7.440	33.665	96.25	80.00	Fail	Pass	16.88
Pimephales promelas	Survival	7 day	7.440	5.000	96.25	97.50	Pass	Pass	-1.30
Pimephales promelas	Biomass	7 day	0.036	0.015	0.38	0.42	Pass	Pass	-11.91
Pimephales promelas	Biomass	7 day	0.036	0.126	0.38	0.36	Pass	Pass	3.42
Pimephales promelas	Biomass	7 day	0.036	0.025	0.38	0.40	Pass	Pass	-5.07
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	0.000	21.197	100.00	73.00	Fail	Fail	27.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Biomass	7 day	0.035	0.037	0.42	0.40	Pass	Pass	4.10
Pimephales promelas	Biomass	7 day	0.035	0.053	0.42	0.45	Pass	Pass	-6.31
Pimephales promelas	Biomass	7 day	0.035	0.076	0.42	0.39	Pass	Pass	6.07
Pimephales promelas	Biomass	7 day	0.035	0.032	0.42	0.42	Pass	Pass	-1.07
Pimephales promelas	Survival	7 day	5.774	18.257	95.00	20.00	Fail	Pass	78.95
Pimephales promelas	Biomass	7 day	0.023	0.071	0.41	0.08	Fail	Fail	80.38
Selenastrum capricornutum	Growth	96 hours	49856.938	166207.701	1270000.00	1412500.00	Pass	Pass	-11.22
Selenastrum capricornutum	Growth	96 hours	49856.938	231084.400	1270000.00	1520000.00	Pass	Pass	-19.69
Selenastrum capricornutum	Growth	96 hours	323901.991	238938.625	1816250.00	1367500.00	Fail	Fail	24.71
Selenastrum capricornutum	Growth	96 hours	323901.991	451248.269	1816250.00	1907500.00	Pass	Pass	-5.02
Selenastrum capricornutum	Growth	96 hours	323901.991	533190.085	1816250.00	2157500.00	Pass	Pass	-18.79
Selenastrum capricornutum	Growth	96 hours	323901.991	351129.131	1816250.00	2172500.00	Pass	Pass	-19.61
Selenastrum capricornutum	Growth	96 hours	323901.991	545068.803	1816250.00	2095000.00	Pass	Pass	-15.35
Selenastrum capricornutum	Growth	96 hours	323901.991	549363.268	1816250.00	2060000.00	Pass	Pass	-13.42
Selenastrum capricornutum	Growth	96 hours	323901.991	735045.350	1816250.00	2017500.00	Pass	Pass	-11.08
Selenastrum capricornutum	Growth	96 hours	323901.991	194422.221	1816250.00	2080000.00	Pass	Pass	-14.52
Selenastrum capricornutum	Growth	96 hours	329808.179	355858.313	1771386.63	1472840.00	Pass	Pass	16.85
Ceriodaphnia dubia	Reproduction	6-8 day	5.910	1.969	20.60	25.10	Pass	Pass	-21.84
Ceriodaphnia dubia	Reproduction	6-8 day	5.910	3.596	20.60	22.40	Pass	Pass	-8.74
Ceriodaphnia dubia	Reproduction	6-8 day	4.853	10.891	25.62	20.20	Fail	Pass	21.15
Ceriodaphnia dubia	Reproduction	6-8 day	4.853	4.756	25.62	22.80	Pass	Fail	11.00
Ceriodaphnia dubia	Reproduction	6-8 day	4.853	1.494	25.62	30.30	Pass	Pass	-18.27
Ceriodaphnia dubia	Reproduction	6-8 day	4.853	5.794	25.62	24.30	Pass	Pass	5.15
Ceriodaphnia dubia	Reproduction	6-8 day	4.853	5.033	25.62	25.00	Pass	Pass	2.42
Ceriodaphnia dubia	Reproduction	6-8 day	4.853	5.859	25.62	25.10	Pass	Pass	2.03
Ceriodaphnia dubia	Reproduction	6-8 day	4.853	4.397	25.62	22.00	Pass	Fail	14.13
Ceriodaphnia dubia	Reproduction	6-8 day	4.853	6.055	25.62	24.00	Pass	Pass	6.32
Ceriodaphnia dubia	Reproduction	6-8 day	2.594	2.860	21.10	24.80	Pass	Pass	-17.54

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	12.580	3.688	17.60	21.60	Pass	Pass	-22.73
Ceriodaphnia dubia	Reproduction	6-8 day	12.580	1.886	17.60	25.00	Pass	Pass	-42.05
Ceriodaphnia dubia	Reproduction	6-8 day	12.580	4.625	17.60	26.50	Pass	Pass	-50.57
Ceriodaphnia dubia	Reproduction	6-8 day	12.580	3.929	17.60	20.10	Pass	Pass	-14.20
Ceriodaphnia dubia	Reproduction	6-8 day	12.580	8.894	17.60	23.00	Pass	Pass	-30.68
Ceriodaphnia dubia	Reproduction	6-8 day	12.580	6.360	17.60	20.70	Pass	Pass	-17.61
Ceriodaphnia dubia	Reproduction	6-8 day	2.473	3.718	20.70	26.40	Pass	Pass	-27.54
Ceriodaphnia dubia	Reproduction	6-8 day	2.473	2.875	20.70	3.40	Fail	Fail	83.57
Ceriodaphnia dubia	Reproduction	6-8 day	2.473	5.964	20.70	8.70	Fail	Fail	57.97
Ceriodaphnia dubia	Reproduction	6-8 day	2.473	5.587	20.70	12.10	Fail	Fail	41.55
Ceriodaphnia dubia	Reproduction	6-8 day	2.644	4.442	19.11	7.80	Fail	Fail	59.17
Ceriodaphnia dubia	Reproduction	6-8 day	2.644	3.872	19.11	17.90	Pass	Pass	6.31
Ceriodaphnia dubia	Reproduction	6-8 day	2.644	4.410	19.11	16.22	Pass	Fail	15.09
Ceriodaphnia dubia	Reproduction	6-8 day	2.644	1.160	19.11	18.70	Pass	Pass	2.12
Ceriodaphnia dubia	Reproduction	6-8 day	3.736	5.559	24.80	25.70	Pass	Pass	-3.63
Ceriodaphnia dubia	Reproduction	6-8 day	3.736	4.223	24.80	19.50	Fail	Fail	21.37
Ceriodaphnia dubia	Reproduction	6-8 day	8.396	5.539	20.47	9.30	Fail	Fail	54.58
Ceriodaphnia dubia	Reproduction	6-8 day	8.396	8.403	20.47	19.11	Pass	Pass	6.66
Ceriodaphnia dubia	Reproduction	6-8 day	8.396	6.999	20.47	19.90	Pass	Pass	2.80
Ceriodaphnia dubia	Reproduction	6-8 day	4.659	6.106	21.58	13.44	Fail	Fail	37.70
Ceriodaphnia dubia	Reproduction	6-8 day	4.659	7.903	21.58	15.70	Fail	Fail	27.24
Ceriodaphnia dubia	Reproduction	6-8 day	4.659	4.248	21.58	4.60	Fail	Fail	78.68
Ceriodaphnia dubia	Reproduction	6-8 day	4.659	8.351	21.58	8.80	Fail	Fail	59.22
Ceriodaphnia dubia	Reproduction	6-8 day	3.234	5.836	20.70	13.50	Fail	Fail	34.78
Selenastrum capricornutum	Growth	96 hours	64293.597	109741.374	2779100.00	3790825.00	Pass	Pass	-36.40
Selenastrum capricornutum	Growth	96 hours	64293.597	89038.082	2779100.00	3497500.00	Pass	Pass	-25.85
Selenastrum capricornutum	Growth	96 hours	62480.257	140356.436	2197125.00	2219225.00	Pass	Pass	-1.01
Selenastrum capricornutum	Growth	96 hours	62480.257	175610.041	2197125.00	2330600.00	Pass	Pass	-6.07
Selenastrum capricornutum	Growth	96 hours	62480.257	151383.143	2197125.00	2477125.00	Pass	Pass	-12.74
Selenastrum capricornutum	Growth	96 hours	62480.257	192962.086	2197125.00	2525500.00	Pass	Pass	-14.95

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	62480.257	259308.380	2197125.00	2785825.00	Pass	Pass	-26.79
Selenastrum capricornutum	Growth	96 hours	85754.230	286239.993	1775833.33	1890000.00	Pass	Pass	-6.43
Selenastrum capricornutum	Growth	96 hours	85754.230	278373.251	1775833.33	1897500.00	Pass	Pass	-6.85
Selenastrum capricornutum	Growth	96 hours	163832.449	285467.453	3121250.00	5142500.00	Pass	Pass	-64.76
Selenastrum capricornutum	Growth	96 hours	163832.449	152861.593	3121250.00	5255000.00	Pass	Pass	-68.36
Selenastrum capricornutum	Growth	96 hours	103923.048	257293.607	1920000.00	2010000.00	Pass	Pass	-4.69
Selenastrum capricornutum	Growth	96 hours	320975.077	267145.404	2427500.00	1935000.00	Fail	Fail	20.29
Selenastrum capricornutum	Growth	96 hours	320975.077	115707.606	2427500.00	518750.00	Fail	Fail	78.63
Selenastrum capricornutum	Growth	96 hours	320975.077	173469.498	2427500.00	1447500.00	Fail	Fail	40.37
Selenastrum capricornutum	Growth	96 hours	320975.077	238100.119	2427500.00	1797500.00	Fail	Fail	25.95
Selenastrum capricornutum	Growth	96 hours	320975.077	177270.979	2427500.00	1242500.00	Fail	Fail	48.82
Selenastrum capricornutum	Growth	96 hours	320975.077	197061.750	2427500.00	1695000.00	Fail	Fail	30.18
Selenastrum capricornutum	Growth	96 hours	217436.362	204837.334	1367500.00	1572500.00	Pass	Pass	-14.99
Selenastrum capricornutum	Growth	96 hours	217436.362	236149.670	1367500.00	1515000.00	Pass	Pass	-10.79
Selenastrum capricornutum	Growth	96 hours	217436.362	134288.247	1367500.00	1885000.00	Pass	Pass	-37.84
Selenastrum capricornutum	Growth	96 hours	117222.316	137689.264	1286250.00	1497500.00	Pass	Pass	-16.42
Selenastrum capricornutum	Growth	96 hours	78049.130	55602.758	2397500.00	1707500.00	Fail	Fail	28.78
Selenastrum capricornutum	Growth	96 hours	78049.130	168936.872	2397500.00	732500.00	Fail	Fail	69.45
Selenastrum capricornutum	Growth	96 hours	78049.130	62856.318	2397500.00	607750.00	Fail	Fail	74.65
Selenastrum capricornutum	Growth	96 hours	78049.130	62655.141	2397500.00	525500.00	Fail	Fail	78.08
Selenastrum capricornutum	Growth	96 hours	78049.130	66284.739	2397500.00	549500.00	Fail	Fail	77.08
Ceriodaphnia dubia	Reproduction	6-8 day	3.837	2.449	25.50	32.67	Pass	Pass	-28.10
Ceriodaphnia dubia	Reproduction	6-8 day	3.837	4.006	25.50	28.60	Pass	Pass	-12.16
Ceriodaphnia dubia	Reproduction	6-8 day	3.837	2.025	25.50	28.90	Pass	Pass	-13.33
Ceriodaphnia dubia	Reproduction	6-8 day	3.837	2.765	25.50	29.25	Pass	Pass	-14.71
Ceriodaphnia dubia	Reproduction	6-8 day	3.837	3.991	25.50	28.75	Pass	Pass	-12.75
Ceriodaphnia dubia	Reproduction	6-8 day	3.837	6.058	25.50	30.88	Pass	Pass	-21.08
Ceriodaphnia dubia	Reproduction	6-8 day	2.989	7.709	29.40	12.10	Fail	Fail	58.84
Ceriodaphnia dubia	Reproduction	6-8 day	2.989	6.822	29.40	16.90	Fail	Fail	42.52
Ceriodaphnia dubia	Reproduction	6-8 day	2.989	4.897	29.40	28.63	Pass	Pass	2.64

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	2.989	3.536	29.40	26.50	Pass	Fail	9.86
Ceriodaphnia dubia	Reproduction	6-8 day	2.989	4.296	29.40	31.30	Pass	Pass	-6.46
Pimephales promelas	Survival	7 day	5.774	5.000	95.00	97.50	Pass	Pass	-2.63
Pimephales promelas	Survival	7 day	5.774	0.000	95.00	100.00	Pass	Pass	-5.26
Pimephales promelas	Survival	7 day	5.774	0.000	95.00	100.00	Pass	Pass	-5.26
Pimephales promelas	Survival	7 day	5.774	0.000	95.00	100.00	Pass	Pass	-5.26
Pimephales promelas	Survival	7 day	5.774	0.000	95.00	100.00	Pass	Pass	-5.26
Pimephales promelas	Survival	7 day	5.774	0.000	95.00	100.00	Pass	Pass	-5.26
Pimephales promelas	Biomass	7 day	0.097	0.100	0.45	0.51	Pass	Pass	-13.44
Pimephales promelas	Biomass	7 day	0.097	0.080	0.45	0.56	Pass	Pass	-24.65
Pimephales promelas	Biomass	7 day	0.097	0.015	0.45	0.52	Pass	Pass	-15.60
Pimephales promelas	Biomass	7 day	0.097	0.027	0.45	0.53	Pass	Pass	-17.77
Pimephales promelas	Biomass	7 day	0.097	0.023	0.45	0.62	Pass	Pass	-38.70
Pimephales promelas	Biomass	7 day	0.097	0.045	0.45	0.56	Pass	Pass	-23.88
Selenastrum capricornutum	Growth	96 hours	175611.313	82285.580	1174000.00	1980250.00	Pass	Pass	-68.68
Selenastrum capricornutum	Growth	96 hours	175611.313	119201.161	1174000.00	2399250.00	Pass	Pass	-104.37
Selenastrum capricornutum	Growth	96 hours	175611.313	155534.294	1174000.00	1965750.00	Pass	Pass	-67.44
Selenastrum capricornutum	Growth	96 hours	175611.313	174832.062	1174000.00	2373750.00	Pass	Pass	-102.19
Selenastrum capricornutum	Growth	96 hours	175611.313	2081.666	1174000.00	36500.00	Fail	Fail	96.89
Selenastrum capricornutum	Growth	96 hours	175611.313	182035.482	1174000.00	2037250.00	Pass	Pass	-73.53
Selenastrum capricornutum	Growth	96 hours	175611.313	8098.354	1174000.00	82750.00	Fail	Fail	92.95
Ceriodaphnia dubia	Reproduction	6-8 day	1.524	3.011	23.10	22.20	Pass	Pass	3.90
Ceriodaphnia dubia	Reproduction	6-8 day	5.153	5.623	22.63	16.43	Fail	Fail	27.39
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	6.464	19.50	35.00	Pass	Pass	-79.49
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	0.000	19.50	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	6.550	19.50	33.70	Pass	Pass	-72.82
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	7.852	19.50	36.90	Pass	Pass	-89.23
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	7.226	19.50	32.00	Pass	Pass	-64.10
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	8.514	19.50	32.40	Pass	Pass	-66.15
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	5.384	19.50	33.10	Pass	Pass	-69.74

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	0.000	19.50	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	0.000	19.50	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	12.239	19.50	26.70	Pass	Pass	-36.92
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	6.430	19.50	36.70	Pass	Pass	-88.21
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	11.227	19.50	16.40	Fail	Pass	15.90
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	10.012	27.88	19.33	Fail	Fail	30.64
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	0.000	27.88	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	11.622	27.88	7.20	Fail	Fail	74.17
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	3.378	27.88	26.63	Pass	Pass	4.48
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	10.366	27.88	27.22	Pass	Pass	2.34
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	5.431	27.88	28.67	Pass	Pass	-2.84
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	5.431	27.88	19.67	Fail	Fail	29.45
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	0.000	27.88	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	13.501	27.88	6.40	Fail	Fail	77.04
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	9.286	27.88	21.30	Fail	Fail	23.59
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	7.097	27.88	26.89	Pass	Pass	3.54
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	7.060	27.88	18.13	Fail	Fail	34.98
Ceriodaphnia dubia	Reproduction	6-8 day	8.656	5.736	19.40	30.70	Pass	Pass	-58.25
Ceriodaphnia dubia	Reproduction	6-8 day	8.656	13.944	19.40	17.22	Fail	Pass	11.23
Ceriodaphnia dubia	Reproduction	6-8 day	8.656	10.220	19.40	26.30	Pass	Pass	-35.57
Ceriodaphnia dubia	Reproduction	6-8 day	8.656	7.382	19.40	28.00	Pass	Pass	-44.33
Ceriodaphnia dubia	Reproduction	6-8 day	8.656	13.448	19.40	23.20	Pass	Pass	-19.59
Ceriodaphnia dubia	Reproduction	6-8 day	8.656	0.000	19.40	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	8.656	6.976	19.40	28.00	Pass	Pass	-44.33
Ceriodaphnia dubia	Reproduction	6-8 day	8.656	0.000	19.40	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	8.656	0.000	19.40	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	8.656	6.790	19.40	22.10	Pass	Pass	-13.92
Ceriodaphnia dubia	Reproduction	6-8 day	8.656	2.062	19.40	25.33	Pass	Pass	-30.58
Ceriodaphnia dubia	Reproduction	6-8 day	8.656	3.268	19.40	22.30	Pass	Pass	-14.95
Ceriodaphnia dubia	Reproduction	6-8 day	4.498	4.035	28.30	29.44	Pass	Pass	-4.04

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	4.498	0.000	28.30	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	4.498	2.503	28.30	28.40	Pass	Pass	-0.35
Ceriodaphnia dubia	Reproduction	6-8 day	4.498	8.319	28.30	22.90	Fail	Pass	19.08
Ceriodaphnia dubia	Reproduction	6-8 day	4.498	3.830	28.30	28.00	Pass	Pass	1.06
Ceriodaphnia dubia	Reproduction	6-8 day	4.498	5.633	28.30	26.20	Pass	Pass	7.42
Ceriodaphnia dubia	Reproduction	6-8 day	4.498	0.000	28.30	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	4.498	5.160	28.30	11.80	Fail	Fail	58.30
Ceriodaphnia dubia	Reproduction	6-8 day	10.744	0.000	18.10	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	10.744	6.812	18.10	3.20	Fail	Fail	82.32
Ceriodaphnia dubia	Reproduction	6-8 day	7.557	8.524	33.00	16.00	Fail	Fail	51.52
Ceriodaphnia dubia	Reproduction	6-8 day	7.557	5.808	33.00	42.80	Pass	Pass	-29.70
Ceriodaphnia dubia	Reproduction	6-8 day	7.557	0.000	33.00	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	7.557	10.602	33.00	30.80	Pass	Pass	6.67
Ceriodaphnia dubia	Reproduction	6-8 day	7.557	6.056	33.00	38.70	Pass	Pass	-17.27
Ceriodaphnia dubia	Reproduction	6-8 day	7.557	7.036	33.00	37.80	Pass	Pass	-14.55
Ceriodaphnia dubia	Reproduction	6-8 day	7.557	4.453	33.00	42.50	Pass	Pass	-28.79
Ceriodaphnia dubia	Reproduction	6-8 day	7.557	11.208	33.00	45.11	Pass	Pass	-36.70
Ceriodaphnia dubia	Reproduction	6-8 day	7.557	0.000	33.00	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	7.557	0.000	33.00	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	7.557	12.420	33.00	30.60	Pass	Pass	7.27
Ceriodaphnia dubia	Reproduction	6-8 day	7.557	4.296	33.00	44.30	Pass	Pass	-34.24
Ceriodaphnia dubia	Reproduction	6-8 day	8.613	5.051	25.20	29.20	Pass	Pass	-15.87
Ceriodaphnia dubia	Reproduction	6-8 day	8.613	0.000	25.20	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	8.613	10.042	25.20	25.20	Pass	Pass	0.00
Ceriodaphnia dubia	Reproduction	6-8 day	8.613	14.490	25.20	23.20	Fail	Pass	7.94
Ceriodaphnia dubia	Reproduction	6-8 day	8.613	10.199	25.20	23.30	Pass	Pass	7.54
Ceriodaphnia dubia	Reproduction	6-8 day	8.613	8.222	25.20	18.60	Fail	Fail	26.19
Ceriodaphnia dubia	Reproduction	6-8 day	8.613	7.927	25.20	18.20	Fail	Fail	27.78
Ceriodaphnia dubia	Reproduction	6-8 day	8.613	0.000	25.20	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	8.613	0.000	25.20	0.00	Fail	Fail	100.00

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	8.613	14.362	25.20	19.60	Fail	Pass	22.22
Ceriodaphnia dubia	Reproduction	6-8 day	8.613	13.744	25.20	20.70	Fail	Pass	17.86
Ceriodaphnia dubia	Reproduction	6-8 day	8.613	0.000	25.20	0.00	Fail	Fail	100.00
Selenastrum capricornutum	Growth	96 hours	74386.379	63508.530	1150000.00	1405000.00	Pass	Pass	-22.17
Selenastrum capricornutum	Growth	96 hours	74386.379	26299.556	1150000.00	1407500.00	Pass	Pass	-22.39
Selenastrum capricornutum	Growth	96 hours	74386.379	30956.959	1150000.00	1367500.00	Pass	Pass	-18.91
Selenastrum capricornutum	Growth	96 hours	74386.379	34034.296	1150000.00	1412500.00	Pass	Pass	-22.83
Selenastrum capricornutum	Growth	96 hours	74386.379	57154.761	1150000.00	1350000.00	Pass	Pass	-17.39
Selenastrum capricornutum	Growth	96 hours	74386.379	71355.915	1150000.00	1307500.00	Pass	Pass	-13.70
Selenastrum capricornutum	Growth	96 hours	74386.379	70000.000	1150000.00	1255000.00	Pass	Pass	-9.13
Selenastrum capricornutum	Growth	96 hours	27537.853	64148.266	1127500.00	886500.00	Pass	Fail	21.37
Selenastrum capricornutum	Growth	96 hours	27537.853	35939.764	1127500.00	1117500.00	Pass	Pass	0.89
Selenastrum capricornutum	Growth	96 hours	27537.853	57373.048	1127500.00	1132500.00	Pass	Pass	-0.44
Selenastrum capricornutum	Growth	96 hours	27537.853	19148.542	1127500.00	1065000.00	Pass	Pass	5.54
Selenastrum capricornutum	Growth	96 hours	27537.853	72284.161	1127500.00	1237500.00	Pass	Pass	-9.76
Selenastrum capricornutum	Growth	96 hours	27537.853	147432.188	1127500.00	352750.00	Fail	Pass	68.71
Selenastrum capricornutum	Growth	96 hours	93229.108	58523.500	1127500.00	1357500.00	Pass	Pass	-20.40
Selenastrum capricornutum	Growth	96 hours	93229.108	76757.193	1127500.00	1172500.00	Pass	Pass	-3.99
Selenastrum capricornutum	Growth	96 hours	93229.108	49665.548	1127500.00	1300000.00	Pass	Pass	-15.30
Selenastrum capricornutum	Growth	96 hours	93229.108	117473.401	1127500.00	1330000.00	Pass	Pass	-17.96
Selenastrum capricornutum	Growth	96 hours	93229.108	71355.915	1127500.00	1182500.00	Pass	Pass	-4.88
Selenastrum capricornutum	Growth	96 hours	93229.108	83016.063	1127500.00	1147500.00	Pass	Pass	-1.77
Selenastrum capricornutum	Growth	96 hours	93229.108	193627.650	1127500.00	1337500.00	Pass	Pass	-18.63
Selenastrum capricornutum	Growth	96 hours	93229.108	48562.674	1127500.00	1292500.00	Pass	Pass	-14.63
Selenastrum capricornutum	Growth	96 hours	78475.049	53541.261	1297500.00	1380000.00	Pass	Pass	-6.36
Selenastrum capricornutum	Growth	96 hours	78475.049	112101.145	1297500.00	1475000.00	Pass	Pass	-13.68
Selenastrum capricornutum	Growth	96 hours	78475.049	88506.120	1297500.00	1395000.00	Pass	Pass	-7.51
Selenastrum capricornutum	Growth	96 hours	78475.049	68007.353	1297500.00	1387500.00	Pass	Pass	-6.94
Selenastrum capricornutum	Growth	96 hours	78475.049	59441.848	1297500.00	1380000.00	Pass	Pass	-6.36
Selenastrum capricornutum	Growth	96 hours	78475.049	78740.079	1297500.00	1370000.00	Pass	Pass	-5.59

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Selenastrum capricornutum	Growth	96 hours	78475.049	38622.101	1297500.00	1227500.00	Pass	Pass	5.39
Selenastrum capricornutum	Growth	96 hours	15000.000	17320.508	1242500.00	1415000.00	Pass	Pass	-13.88
Selenastrum capricornutum	Growth	96 hours	15000.000	45460.606	1242500.00	1370000.00	Pass	Pass	-10.26
Selenastrum capricornutum	Growth	96 hours	15000.000	17320.508	1242500.00	1485000.00	Pass	Pass	-19.52
Selenastrum capricornutum	Growth	96 hours	15000.000	43493.295	1242500.00	1767500.00	Pass	Pass	-42.25
Selenastrum capricornutum	Growth	96 hours	15000.000	42720.019	1242500.00	1392500.00	Pass	Pass	-12.07
Selenastrum capricornutum	Growth	96 hours	15000.000	40414.519	1242500.00	1445000.00	Pass	Pass	-16.30
Selenastrum capricornutum	Growth	96 hours	15000.000	29439.203	1242500.00	1370000.00	Pass	Pass	-10.26
Selenastrum capricornutum	Growth	96 hours	15000.000	54160.256	1242500.00	1340000.00	Pass	Pass	-7.85
Selenastrum capricornutum	Growth	96 hours	23804.761	38622.101	1195000.00	1057500.00	Pass	Fail	11.51
Selenastrum capricornutum	Growth	96 hours	23804.761	79983.332	1195000.00	1044000.00	Pass	Fail	12.64
Selenastrum capricornutum	Growth	96 hours	23804.761	50878.941	1195000.00	897000.00	Fail	Fail	24.94
Selenastrum capricornutum	Growth	96 hours	23804.761	30956.959	1195000.00	1277500.00	Pass	Pass	-6.90
Selenastrum capricornutum	Growth	96 hours	23804.761	36828.431	1195000.00	1013500.00	Pass	Fail	15.19
Selenastrum capricornutum	Growth	96 hours	23804.761	26424.421	1195000.00	950250.00	Pass	Fail	20.48
Selenastrum capricornutum	Growth	96 hours	23804.761	53829.205	1195000.00	1015750.00	Pass	Fail	15.00
Selenastrum capricornutum	Growth	96 hours	33166.248	49328.829	1185000.00	1445000.00	Pass	Pass	-21.94
Selenastrum capricornutum	Growth	96 hours	33166.248	106144.556	1185000.00	1480000.00	Pass	Pass	-24.89
Selenastrum capricornutum	Growth	96 hours	33166.248	9574.271	1185000.00	1507500.00	Pass	Pass	-27.22
Selenastrum capricornutum	Growth	96 hours	33166.248	62383.224	1185000.00	1437500.00	Pass	Pass	-21.31
Selenastrum capricornutum	Growth	96 hours	33166.248	51234.754	1185000.00	1192500.00	Pass	Pass	-0.63
Selenastrum capricornutum	Growth	96 hours	33166.248	40311.289	1185000.00	1242500.00	Pass	Pass	-4.85
Selenastrum capricornutum	Growth	96 hours	33166.248	41129.876	1185000.00	1312500.00	Pass	Pass	-10.76
Selenastrum capricornutum	Growth	96 hours	33166.248	61305.247	1185000.00	1212500.00	Pass	Pass	-2.32
Selenastrum capricornutum	Growth	96 hours	22173.558	69522.179	1232500.00	1255000.00	Pass	Pass	-1.83
Selenastrum capricornutum	Growth	96 hours	22173.558	60759.087	1232500.00	1682500.00	Pass	Pass	-36.51
Selenastrum capricornutum	Growth	96 hours	22173.558	38622.101	1232500.00	1437500.00	Pass	Pass	-16.63
Selenastrum capricornutum	Growth	96 hours	22173.558	88128.694	1232500.00	1515000.00	Pass	Pass	-22.92
Selenastrum capricornutum	Growth	96 hours	22173.558	29439.203	1232500.00	1350000.00	Pass	Pass	-9.53
Selenastrum capricornutum	Growth	96 hours	22173.558	35118.846	1232500.00	1295000.00	Pass	Pass	-5.07

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Selenastrum capricornutum	Growth	96 hours	22173.558	41371.286	1232500.00	934250.00	Fail	Fail	24.20
Selenastrum capricornutum	Growth	96 hours	12583.057	42720.019	1222500.00	1197500.00	Pass	Pass	2.04
Selenastrum capricornutum	Growth	96 hours	12583.057	20615.528	1222500.00	1357500.00	Pass	Pass	-11.04
Selenastrum capricornutum	Growth	96 hours	12583.057	42031.734	1222500.00	1375000.00	Pass	Pass	-12.47
Selenastrum capricornutum	Growth	96 hours	12583.057	73936.910	1222500.00	1590000.00	Pass	Pass	-30.06
Selenastrum capricornutum	Growth	96 hours	12583.057	28867.513	1222500.00	1175000.00	Pass	Fail	3.89
Selenastrum capricornutum	Growth	96 hours	12583.057	73654.599	1222500.00	1182500.00	Pass	Pass	3.27
Selenastrum capricornutum	Growth	96 hours	12583.057	43493.295	1222500.00	1282500.00	Pass	Pass	-4.91
Selenastrum capricornutum	Growth	96 hours	21602.469	41231.056	1400000.00	1475000.00	Pass	Pass	-5.36
Selenastrum capricornutum	Growth	96 hours	21602.469	12909.944	1400000.00	1385000.00	Pass	Pass	1.07
Selenastrum capricornutum	Growth	96 hours	21602.469	33040.379	1400000.00	1637500.00	Pass	Pass	-16.96
Selenastrum capricornutum	Growth	96 hours	21602.469	34156.503	1400000.00	1605000.00	Pass	Pass	-14.64
Selenastrum capricornutum	Growth	96 hours	21602.469	22173.558	1400000.00	1462500.00	Pass	Pass	-4.46
Selenastrum capricornutum	Growth	96 hours	21602.469	22173.558	1400000.00	1197500.00	Pass	Fail	14.46
Selenastrum capricornutum	Growth	96 hours	21602.469	27537.853	1400000.00	1197500.00	Pass	Fail	14.46
Selenastrum capricornutum	Growth	96 hours	9574.271	12909.944	1412500.00	1415000.00	Pass	Pass	-0.18
Selenastrum capricornutum	Growth	96 hours	9574.271	15000.000	1412500.00	1497500.00	Pass	Pass	-6.02
Selenastrum capricornutum	Growth	96 hours	9574.271	25819.889	1412500.00	1460000.00	Pass	Pass	-3.36
Selenastrum capricornutum	Growth	96 hours	9574.271	18929.694	1412500.00	1332500.00	Pass	Fail	5.66
Selenastrum capricornutum	Growth	96 hours	9574.271	12909.944	1412500.00	1205000.00	Pass	Fail	14.69
Selenastrum capricornutum	Growth	96 hours	198137.117	41121.142	1940337.25	451241.25	Fail	Fail	76.74
Selenastrum capricornutum	Growth	96 hours	198137.117	75761.670	1940337.25	2168612.00	Pass	Pass	-11.76
Selenastrum capricornutum	Growth	96 hours	198137.117	165481.119	1940337.25	2449974.00	Pass	Pass	-26.27
Selenastrum capricornutum	Growth	96 hours	198137.117	341082.904	1940337.25	1550146.25	Fail	Fail	20.11
Selenastrum capricornutum	Growth	96 hours	198137.117	256783.490	1940337.25	2004042.00	Pass	Pass	-3.28
Selenastrum capricornutum	Growth	96 hours	198137.117	60915.841	1940337.25	2423430.75	Pass	Pass	-24.90
Selenastrum capricornutum	Growth	96 hours	198137.117	378808.550	1940337.25	2253551.75	Pass	Pass	-16.14
Selenastrum capricornutum	Growth	96 hours	198137.117	238518.588	1940337.25	1836817.25	Pass	Pass	5.34
Selenastrum capricornutum	Growth	96 hours	152727.861	65736.807	1828854.25	1693481.50	Pass	Pass	7.40
Selenastrum capricornutum	Growth	96 hours	152727.861	304962.584	1828854.25	1725335.00	Pass	Pass	5.66

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Selenastrum capricornutum	Growth	96 hours	152727.861	88408.675	1828854.25	2576498.67	Pass	Pass	-40.88
Selenastrum capricornutum	Growth	96 hours	152727.861	300305.893	1828854.25	2548186.25	Pass	Pass	-39.33
Selenastrum capricornutum	Growth	96 hours	152727.861	158907.477	1828854.25	1868669.00	Pass	Pass	-2.18
Selenastrum capricornutum	Growth	96 hours	152727.861	164026.293	1828854.25	2070400.00	Pass	Pass	-13.21
Selenastrum capricornutum	Growth	96 hours	152727.861	241493.119	1828854.25	1493520.00	Pass	Fail	18.34
Selenastrum capricornutum	Growth	96 hours	152727.861	64873.997	1828854.25	1840356.67	Pass	Pass	-0.63
Selenastrum capricornutum	Growth	96 hours	214636.696	183491.372	1783730.00	1061744.00	Fail	Fail	40.48
Ceriodaphnia dubia	Reproduction	6-8 day	7.460	5.666	36.10	28.90	Fail	Fail	19.94
Ceriodaphnia dubia	Reproduction	6-8 day	1.947	4.497	38.30	35.00	Pass	Fail	8.62
Selenastrum capricornutum	Growth	96 hours	220011.021	271912.687	3833575.00	4200275.00	Pass	Pass	-9.57
Selenastrum capricornutum	Growth	96 hours	220011.021	174286.782	3833575.00	3337225.00	Pass	Fail	12.95
Selenastrum capricornutum	Growth	96 hours	72344.085	33486.316	1027500.00	793000.00	Fail	Fail	22.82
Selenastrum capricornutum	Growth	96 hours	72344.085	86975.092	1027500.00	1286000.00	Pass	Pass	-25.16
Selenastrum capricornutum	Growth	96 hours	72344.085	89606.547	1027500.00	1240000.00	Pass	Pass	-20.68
Selenastrum capricornutum	Growth	96 hours	72344.085	52855.148	1027500.00	1283500.00	Pass	Pass	-24.91
Selenastrum capricornutum	Growth	96 hours	92280.370	81369.015	1158500.00	1072750.00	Pass	Pass	7.40
Selenastrum capricornutum	Growth	96 hours	92280.370	18803.812	1158500.00	55250.00	Fail	Fail	95.23
Selenastrum capricornutum	Growth	96 hours	92280.370	62611.900	1158500.00	352750.00	Fail	Fail	69.55
Selenastrum capricornutum	Growth	96 hours	34621.766	296829.918	1299000.00	1658000.00	Pass	Pass	-27.64
Selenastrum capricornutum	Growth	96 hours	34621.766	243770.897	1299000.00	1721250.00	Pass	Pass	-32.51
Selenastrum capricornutum	Growth	96 hours	34621.766	177400.676	1299000.00	1772500.00	Pass	Pass	-36.45
Selenastrum capricornutum	Growth	96 hours	34621.766	107469.375	1299000.00	1562500.00	Pass	Pass	-20.28
Selenastrum capricornutum	Growth	96 hours	20792.627	51215.232	881500.00	1330000.00	Pass	Pass	-50.88
Selenastrum capricornutum	Growth	96 hours	20792.627	13275.918	881500.00	503750.00	Fail	Fail	42.85
Selenastrum capricornutum	Growth	96 hours	20792.627	36322.628	881500.00	862000.00	Pass	Pass	2.21
Selenastrum capricornutum	Growth	96 hours	295071.037	427570.657	1447250.00	2417000.00	Pass	Pass	-67.01
Selenastrum capricornutum	Growth	96 hours	295071.037	261817.207	1447250.00	2485250.00	Pass	Pass	-71.72
Selenastrum capricornutum	Growth	96 hours	295071.037	58083.274	1447250.00	2906500.00	Pass	Pass	-100.83
Selenastrum capricornutum	Growth	96 hours	295071.037	157843.805	1447250.00	2571000.00	Pass	Pass	-77.65
Selenastrum capricornutum	Growth	96 hours	295071.037	213025.038	1447250.00	1688500.00	Pass	Pass	-16.67

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Selenastrum capricornutum	Growth	96 hours	108696.443	51136.256	1803250.00	1197250.00	Fail	Fail	33.61
Selenastrum capricornutum	Growth	96 hours	108696.443	285979.603	1803250.00	3049500.00	Pass	Pass	-69.11
Selenastrum capricornutum	Growth	96 hours	96355.245	223315.173	542500.00	1895500.00	Pass	Pass	-249.40
Selenastrum capricornutum	Growth	96 hours	96355.245	8180.261	542500.00	12750.00	Fail	Fail	97.65
Selenastrum capricornutum	Growth	96 hours	96355.245	185489.218	542500.00	2348250.00	Pass	Pass	-332.86
Selenastrum capricornutum	Growth	96 hours	96355.245	206233.484	542500.00	1430750.00	Pass	Pass	-163.73
Selenastrum capricornutum	Growth	96 hours	129296.494	147881.428	1214250.00	2479250.00	Pass	Pass	-104.18
Selenastrum capricornutum	Growth	96 hours	98158.036	145123.798	1338500.00	2154250.00	Pass	Pass	-60.95
Selenastrum capricornutum	Growth	96 hours	98158.036	351495.258	1338500.00	2602250.00	Pass	Pass	-94.42
Selenastrum capricornutum	Growth	96 hours	98158.036	334024.450	1338500.00	2384500.00	Pass	Pass	-78.15
Selenastrum capricornutum	Growth	96 hours	98158.036	452646.293	1338500.00	1683000.00	Pass	Pass	-25.74
Selenastrum capricornutum	Growth	96 hours	195839.007	190515.747	1443750.00	2466750.00	Pass	Pass	-70.86
Selenastrum capricornutum	Growth	96 hours	195839.007	67225.987	1443750.00	434000.00	Fail	Fail	69.94
Selenastrum capricornutum	Growth	96 hours	195839.007	163705.783	1443750.00	2172250.00	Pass	Pass	-50.46
Selenastrum capricornutum	Growth	96 hours	195839.007	421054.529	1443750.00	3045250.00	Pass	Pass	-110.93
Selenastrum capricornutum	Growth	96 hours	195839.007	82479.796	1443750.00	2032750.00	Pass	Pass	-40.80
Selenastrum capricornutum	Growth	96 hours	195839.007	335915.044	1443750.00	2585750.00	Pass	Pass	-79.10
Selenastrum capricornutum	Growth	96 hours	194275.363	196804.471	1441250.00	1623000.00	Pass	Pass	-12.61
Selenastrum capricornutum	Growth	96 hours	206806.472	646611.875	1487250.00	2189750.00	Pass	Pass	-47.23
Selenastrum capricornutum	Growth	96 hours	35957.150	125599.894	236750.00	2067000.00	Pass	Pass	-773.07
Selenastrum capricornutum	Growth	96 hours	35957.150	165135.298	236750.00	1545500.00	Pass	Pass	-552.80
Selenastrum capricornutum	Growth	96 hours	56251.667	301749.758	323750.00	2703750.00	Pass	Pass	-735.14
Selenastrum capricornutum	Growth	96 hours	56251.667	137075.101	323750.00	1994750.00	Pass	Pass	-516.14
Selenastrum capricornutum	Growth	96 hours	56251.667	69586.277	323750.00	3097750.00	Pass	Pass	-856.83
Selenastrum capricornutum	Growth	96 hours	56251.667	181850.442	323750.00	2586250.00	Pass	Pass	-698.84
Selenastrum capricornutum	Growth	96 hours	48801.469	215342.170	265750.00	2158750.00	Pass	Pass	-712.32
Selenastrum capricornutum	Growth	96 hours	48801.469	277307.741	265750.00	1777250.00	Pass	Pass	-568.77
Selenastrum capricornutum	Growth	96 hours	48801.469	329380.606	265750.00	1772750.00	Pass	Pass	-567.07
Selenastrum capricornutum	Growth	96 hours	48801.469	114666.182	265750.00	2404500.00	Pass	Pass	-804.80
Selenastrum capricornutum	Growth	96 hours	29200.457	285896.689	241000.00	2135750.00	Pass	Pass	-786.20

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Selenastrum capricornutum	Growth	96 hours	29200.457	249210.754	241000.00	3026000.00	Pass	Pass	-1155.60
Selenastrum capricornutum	Growth	96 hours	29200.457	221200.324	241000.00	2102250.00	Pass	Pass	-772.30
Selenastrum capricornutum	Growth	96 hours	38055.880	196727.180	264750.00	2225750.00	Pass	Pass	-740.70
Selenastrum capricornutum	Growth	96 hours	38055.880	115105.748	264750.00	2441000.00	Pass	Pass	-822.00
Selenastrum capricornutum	Growth	96 hours	74908.833	162492.051	1003000.00	1704500.00	Pass	Pass	-69.94
Selenastrum capricornutum	Growth	96 hours	74908.833	268734.534	1003000.00	1811250.00	Pass	Pass	-80.58
Selenastrum capricornutum	Growth	96 hours	74908.833	263178.488	1003000.00	1485750.00	Pass	Pass	-48.13
Selenastrum capricornutum	Growth	96 hours	66765.136	84496.548	977750.00	507500.00	Fail	Fail	48.10
Selenastrum capricornutum	Growth	96 hours	66765.136	124692.956	977750.00	1560500.00	Pass	Pass	-59.60
Selenastrum capricornutum	Growth	96 hours	66765.136	70376.961	977750.00	1061250.00	Pass	Pass	-8.54
Selenastrum capricornutum	Growth	96 hours	66765.136	200849.031	977750.00	2458500.00	Pass	Pass	-151.44
Selenastrum capricornutum	Growth	96 hours	75790.831	139176.147	908250.00	2491000.00	Pass	Pass	-174.26
Selenastrum capricornutum	Growth	96 hours	75790.831	157057.049	908250.00	2742750.00	Pass	Pass	-201.98
Selenastrum capricornutum	Growth	96 hours	75790.831	66583.281	908250.00	1670000.00	Pass	Pass	-83.87
Selenastrum capricornutum	Growth	96 hours	98841.624	193644.003	780500.00	1688000.00	Pass	Pass	-116.27
Selenastrum capricornutum	Growth	96 hours	98841.624	65434.446	780500.00	2052500.00	Pass	Pass	-162.97
Selenastrum capricornutum	Growth	96 hours	98841.624	227321.358	780500.00	1877500.00	Pass	Pass	-140.55
Selenastrum capricornutum	Growth	96 hours	42492.156	206859.655	846250.00	1278250.00	Pass	Pass	-51.05
Selenastrum capricornutum	Growth	96 hours	42492.156	131449.610	846250.00	1945500.00	Pass	Pass	-129.90
Selenastrum capricornutum	Growth	96 hours	42492.156	122682.177	846250.00	1694750.00	Pass	Pass	-100.27
Selenastrum capricornutum	Growth	96 hours	42492.156	90209.017	846250.00	1367500.00	Pass	Pass	-61.60
Selenastrum capricornutum	Growth	96 hours	42492.156	69842.680	846250.00	1576000.00	Pass	Pass	-86.23
Selenastrum capricornutum	Growth	96 hours	79910.366	12658.989	1396500.00	219750.00	Fail	Fail	84.26
Selenastrum capricornutum	Growth	96 hours	39183.330	136497.558	918000.00	1045750.00	Pass	Pass	-13.92
Selenastrum capricornutum	Growth	96 hours	39183.330	182729.992	918000.00	986750.00	Pass	Pass	-7.49
Selenastrum capricornutum	Growth	96 hours	39183.330	105738.672	918000.00	643000.00	Fail	Fail	29.96
Selenastrum capricornutum	Growth	96 hours	39183.330	71232.015	918000.00	1005000.00	Pass	Pass	-9.48
Selenastrum capricornutum	Growth	96 hours	39183.330	56576.644	918000.00	1131250.00	Pass	Pass	-23.23
Selenastrum capricornutum	Growth	96 hours	37188.708	185500.000	925500.00	1118750.00	Pass	Pass	-20.88
Selenastrum capricornutum	Growth	96 hours	37188.708	232174.324	925500.00	1200250.00	Pass	Pass	-29.69

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	37188.708	40252.329	925500.00	298750.00	Fail	Fail	67.72
Selenastrum capricornutum	Growth	96 hours	37188.708	110332.830	925500.00	1240000.00	Pass	Pass	-33.98
Selenastrum capricornutum	Growth	96 hours	13466.007	32170.121	1007000.00	1099750.00	Pass	Pass	-9.21
Selenastrum capricornutum	Growth	96 hours	13466.007	45937.457	1007000.00	1299750.00	Pass	Pass	-29.07
Selenastrum capricornutum	Growth	96 hours	13466.007	38179.401	1007000.00	1532500.00	Pass	Pass	-52.18
Selenastrum capricornutum	Growth	96 hours	13466.007	72178.021	1007000.00	1305500.00	Pass	Pass	-29.64
Selenastrum capricornutum	Growth	96 hours	20792.627	7455.423	881500.00	826250.00	Pass	Fail	6.27
Selenastrum capricornutum	Growth	96 hours	20792.627	44799.554	881500.00	1012500.00	Pass	Pass	-14.86
Selenastrum capricornutum	Growth	96 hours	3589.220	193707.090	706525.00	1692650.00	Pass	Pass	-139.57
Selenastrum capricornutum	Growth	96 hours	3589.220	207777.814	706525.00	1740300.00	Pass	Pass	-146.32
Selenastrum capricornutum	Growth	96 hours	3589.220	154836.946	706525.00	2032200.00	Pass	Pass	-187.63
Selenastrum capricornutum	Growth	96 hours	3589.220	170175.958	706525.00	1272550.00	Pass	Pass	-80.11
Selenastrum capricornutum	Growth	96 hours	15831.693	79698.113	708575.00	2128075.00	Pass	Pass	-200.33
Selenastrum capricornutum	Growth	96 hours	15831.693	434493.877	708575.00	2725625.00	Pass	Pass	-284.66
Selenastrum capricornutum	Growth	96 hours	15831.693	370655.783	708575.00	1533125.00	Pass	Pass	-116.37
Selenastrum capricornutum	Growth	96 hours	10950.000	195315.768	461725.00	2066175.00	Pass	Pass	-347.49
Selenastrum capricornutum	Growth	96 hours	10950.000	120980.284	461725.00	1787875.00	Pass	Pass	-287.22
Selenastrum capricornutum	Growth	96 hours	10950.000	252009.701	461725.00	2846425.00	Pass	Pass	-516.48
Selenastrum capricornutum	Growth	96 hours	10950.000	295454.366	461725.00	1614475.00	Pass	Pass	-249.66
Selenastrum capricornutum	Growth	96 hours	10950.000	118440.347	461725.00	1321325.00	Pass	Pass	-186.17
Selenastrum capricornutum	Growth	96 hours	6390.292	153689.134	463775.00	1600450.00	Pass	Pass	-245.09
Selenastrum capricornutum	Growth	96 hours	6390.292	376338.279	463775.00	1811200.00	Pass	Pass	-290.53
Selenastrum capricornutum	Growth	96 hours	13225.606	242909.277	677250.00	2018250.00	Pass	Pass	-198.01
Selenastrum capricornutum	Growth	96 hours	13225.606	88690.473	677250.00	242000.00	Fail	Fail	64.27
Selenastrum capricornutum	Growth	96 hours	13225.606	195131.580	677250.00	1978500.00	Pass	Pass	-192.14
Selenastrum capricornutum	Growth	96 hours	13225.606	139531.060	677250.00	1361250.00	Pass	Pass	-101.00
Selenastrum capricornutum	Growth	96 hours	13225.606	428968.142	677250.00	2083500.00	Pass	Pass	-207.64
Selenastrum capricornutum	Growth	96 hours	103313.439	68504.866	323500.00	1845750.00	Pass	Pass	-470.56
Selenastrum capricornutum	Growth	96 hours	40136.226	219985.606	331750.00	1649500.00	Pass	Pass	-397.21
Selenastrum capricornutum	Growth	96 hours	40136.226	174967.616	331750.00	1511500.00	Pass	Pass	-355.61

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	40136.226	180158.032	331750.00	1426250.00	Pass	Pass	-329.92
Selenastrum capricornutum	Growth	96 hours	40136.226	133888.947	331750.00	1698750.00	Pass	Pass	-412.06
Selenastrum capricornutum	Growth	96 hours	40136.226	164339.841	331750.00	1248750.00	Pass	Pass	-276.41
Selenastrum capricornutum	Growth	96 hours	58166.428	112487.036	333000.00	1520000.00	Pass	Pass	-356.46
Selenastrum capricornutum	Growth	96 hours	58166.428	117537.228	333000.00	1682500.00	Pass	Pass	-405.26
Selenastrum capricornutum	Growth	96 hours	58166.428	108778.062	333000.00	1362000.00	Pass	Pass	-309.01
Selenastrum capricornutum	Growth	96 hours	46971.623	50592.325	336500.00	1417250.00	Pass	Pass	-321.17
Selenastrum capricornutum	Growth	96 hours	46971.623	203065.466	336500.00	1175250.00	Pass	Pass	-249.26
Selenastrum capricornutum	Growth	96 hours	46971.623	59503.501	336500.00	1379000.00	Pass	Pass	-309.81
Selenastrum capricornutum	Growth	96 hours	46971.623	28464.891	336500.00	1149750.00	Pass	Pass	-241.68
Selenastrum capricornutum	Growth	96 hours	46971.623	128527.559	336500.00	1476000.00	Pass	Pass	-338.63
Selenastrum capricornutum	Growth	96 hours	151847.237	286429.165	369750.00	1092500.00	Pass	Pass	-195.47
Selenastrum capricornutum	Growth	96 hours	151847.237	142291.661	369750.00	1868250.00	Pass	Pass	-405.27
Selenastrum capricornutum	Growth	96 hours	69308.489	268883.190	426500.00	1963350.00	Pass	Pass	-360.34
Selenastrum capricornutum	Growth	96 hours	69308.489	52898.488	426500.00	2105750.00	Pass	Pass	-393.73
Selenastrum capricornutum	Growth	96 hours	69308.489	170085.028	426500.00	2692750.00	Pass	Pass	-531.36
Selenastrum capricornutum	Growth	96 hours	22984.397	41748.253	211125.00	2349250.00	Pass	Pass	-1012.73
Selenastrum capricornutum	Growth	96 hours	66937.907	107274.073	473050.00	2298900.00	Pass	Pass	-385.97
Selenastrum capricornutum	Growth	96 hours	66937.907	73473.822	473050.00	1726425.00	Pass	Pass	-264.96
Selenastrum capricornutum	Growth	96 hours	66937.907	55914.660	473050.00	1675075.00	Pass	Pass	-254.10
Selenastrum capricornutum	Growth	96 hours	66937.907	207628.274	473050.00	1736800.00	Pass	Pass	-267.15
Selenastrum capricornutum	Growth	96 hours	66937.907	28250.664	473050.00	1422400.00	Pass	Pass	-200.69
Selenastrum capricornutum	Growth	96 hours	37830.973	104319.361	427925.00	1651625.00	Pass	Pass	-285.96
Selenastrum capricornutum	Growth	96 hours	37830.973	164351.047	427925.00	2144200.00	Pass	Pass	-401.07
Selenastrum capricornutum	Growth	96 hours	37830.973	23921.051	427925.00	1827750.00	Pass	Pass	-327.12
Selenastrum capricornutum	Growth	96 hours	80291.137	69495.803	546000.00	2542500.00	Pass	Pass	-365.66
Selenastrum capricornutum	Growth	96 hours	80291.137	76934.496	546000.00	2582250.00	Pass	Pass	-372.94
Selenastrum capricornutum	Growth	96 hours	80291.137	202403.887	546000.00	1856000.00	Pass	Pass	-239.93
Selenastrum capricornutum	Growth	96 hours	80291.137	128393.601	546000.00	1795250.00	Pass	Pass	-228.80
Selenastrum capricornutum	Growth	96 hours	80291.137	58522.788	546000.00	2312750.00	Pass	Pass	-323.58

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Selenastrum capricornutum	Growth	96 hours	80291.137	58088.295	546000.00	2063250.00	Pass	Pass	-277.88
Selenastrum capricornutum	Growth	96 hours	80291.137	221252.495	546000.00	2113000.00	Pass	Pass	-287.00
Selenastrum capricornutum	Growth	96 hours	93177.250	126862.455	502000.00	3151075.00	Pass	Pass	-527.70
Selenastrum capricornutum	Growth	96 hours	93177.250	100546.838	502000.00	2646500.00	Pass	Pass	-427.19
Selenastrum capricornutum	Growth	96 hours	93177.250	119181.584	502000.00	4065750.00	Pass	Pass	-709.91
Selenastrum capricornutum	Growth	96 hours	80829.038	90184.995	826000.00	1230000.00	Pass	Pass	-48.91
Selenastrum capricornutum	Growth	96 hours	80829.038	509476.856	826000.00	1155000.00	Pass	Pass	-39.83
Selenastrum capricornutum	Growth	96 hours	80829.038	117331.439	826000.00	1565000.00	Pass	Pass	-89.47
Selenastrum capricornutum	Growth	96 hours	80829.038	301605.012	826000.00	1175750.00	Pass	Pass	-42.34
Selenastrum capricornutum	Growth	96 hours	132931.060	309986.559	1061000.00	1757500.00	Pass	Pass	-65.65
Selenastrum capricornutum	Growth	96 hours	132931.060	134907.376	1061000.00	1220000.00	Pass	Pass	-14.99
Selenastrum capricornutum	Growth	96 hours	132931.060	262472.221	1061000.00	1847500.00	Pass	Pass	-74.13
Selenastrum capricornutum	Growth	96 hours	66186.605	197146.308	760000.00	1650000.00	Pass	Pass	-117.11
Selenastrum capricornutum	Growth	96 hours	66186.605	42034.708	760000.00	1030250.00	Pass	Pass	-35.56
Selenastrum capricornutum	Growth	96 hours	66186.605	243173.463	760000.00	1370000.00	Pass	Pass	-80.26
Selenastrum capricornutum	Growth	96 hours	66186.605	81853.528	760000.00	1235000.00	Pass	Pass	-62.50
Selenastrum capricornutum	Growth	96 hours	66186.605	88317.609	760000.00	1360000.00	Pass	Pass	-78.95
Selenastrum capricornutum	Growth	96 hours	110863.279	175190.373	662000.00	1507500.00	Pass	Pass	-127.72
Selenastrum capricornutum	Growth	96 hours	110863.279	65574.385	662000.00	1375000.00	Pass	Pass	-107.70
Selenastrum capricornutum	Growth	96 hours	110863.279	183393.929	662000.00	1345000.00	Pass	Pass	-103.17
Selenastrum capricornutum	Growth	96 hours	45628.938	317804.972	308000.00	2050000.00	Pass	Pass	-565.58
Selenastrum capricornutum	Growth	96 hours	45628.938	60277.138	308000.00	2305000.00	Pass	Pass	-648.38
Selenastrum capricornutum	Growth	96 hours	45628.938	83416.625	308000.00	3122500.00	Pass	Pass	-913.80
Selenastrum capricornutum	Growth	96 hours	39543.225	66284.111	895500.00	1717750.00	Pass	Pass	-91.82
Selenastrum capricornutum	Growth	96 hours	39543.225	40800.327	895500.00	1343000.00	Pass	Pass	-49.97
Selenastrum capricornutum	Growth	96 hours	39543.225	108788.403	895500.00	1595250.00	Pass	Pass	-78.14
Selenastrum capricornutum	Growth	96 hours	39543.225	161669.416	895500.00	2512500.00	Pass	Pass	-180.57
Selenastrum capricornutum	Growth	96 hours	84389.968	9146.948	892500.00	1963500.00	Pass	Pass	-120.00
Selenastrum capricornutum	Growth	96 hours	84389.968	68830.710	892500.00	474500.00	Fail	Fail	46.83
Selenastrum capricornutum	Growth	96 hours	84389.968	77439.762	892500.00	2052750.00	Pass	Pass	-130.00

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Selenastrum capricornutum	Growth	96 hours	84389.968	52531.736	892500.00	1114250.00	Pass	Pass	-24.85
Selenastrum capricornutum	Growth	96 hours	84389.968	141765.946	892500.00	2176250.00	Pass	Pass	-143.84
Selenastrum capricornutum	Growth	96 hours	41804.107	101526.269	834750.00	1901250.00	Pass	Pass	-127.76
Selenastrum capricornutum	Growth	96 hours	41804.107	95796.660	834750.00	1563500.00	Pass	Pass	-87.30
Selenastrum capricornutum	Growth	96 hours	41804.107	81956.798	834750.00	1670250.00	Pass	Pass	-100.09
Selenastrum capricornutum	Growth	96 hours	41804.107	40451.617	834750.00	1884500.00	Pass	Pass	-125.76
Selenastrum capricornutum	Growth	96 hours	46269.104	33357.196	1113050.00	925975.00	Pass	Fail	16.81
Selenastrum capricornutum	Growth	96 hours	122836.952	373178.242	1283750.00	1704000.00	Pass	Pass	-32.74
Selenastrum capricornutum	Growth	96 hours	122836.952	145769.224	1283750.00	1689000.00	Pass	Pass	-31.57
Selenastrum capricornutum	Growth	96 hours	122836.952	235522.646	1283750.00	1979250.00	Pass	Pass	-54.18
Selenastrum capricornutum	Growth	96 hours	86121.523	123045.723	1243750.00	1763250.00	Pass	Pass	-41.77
Selenastrum capricornutum	Growth	96 hours	86121.523	93096.276	1243750.00	1337750.00	Pass	Pass	-7.56
Selenastrum capricornutum	Growth	96 hours	86121.523	280322.879	1243750.00	1564750.00	Pass	Pass	-25.81
Selenastrum capricornutum	Growth	96 hours	86121.523	220070.254	1243750.00	2254750.00	Pass	Pass	-81.29
Selenastrum capricornutum	Growth	96 hours	66322.313	96428.190	859975.00	2224775.00	Pass	Pass	-158.70
Selenastrum capricornutum	Growth	96 hours	66322.313	56505.722	859975.00	1947450.00	Pass	Pass	-126.45
Selenastrum capricornutum	Growth	96 hours	33119.732	36252.586	772750.00	684750.00	Pass	Fail	11.39
Selenastrum capricornutum	Growth	96 hours	20297.783	80047.382	984000.00	1638750.00	Pass	Pass	-66.54
Selenastrum capricornutum	Growth	96 hours	20297.783	29586.033	984000.00	969000.00	Pass	Pass	1.52
Selenastrum capricornutum	Growth	96 hours	20297.783	45887.544	984000.00	1612500.00	Pass	Pass	-63.87
Selenastrum capricornutum	Growth	96 hours	20297.783	97478.203	984000.00	1392000.00	Pass	Pass	-41.46
Selenastrum capricornutum	Growth	96 hours	20297.783	75424.907	984000.00	1747250.00	Pass	Pass	-77.57
Selenastrum capricornutum	Growth	96 hours	98513.535	54359.912	1028750.00	1741500.00	Pass	Pass	-69.28
Selenastrum capricornutum	Growth	96 hours	98513.535	69977.973	1028750.00	1714250.00	Pass	Pass	-66.63
Selenastrum capricornutum	Growth	96 hours	98513.535	90448.420	1028750.00	1816750.00	Pass	Pass	-76.60
Selenastrum capricornutum	Growth	96 hours	98513.535	155126.561	1028750.00	1957750.00	Pass	Pass	-90.30
Selenastrum capricornutum	Growth	96 hours	79675.906	94295.634	1046750.00	1642500.00	Pass	Pass	-56.91
Selenastrum capricornutum	Growth	96 hours	79675.906	187173.716	1046750.00	2170000.00	Pass	Pass	-107.31
Selenastrum capricornutum	Growth	96 hours	79675.906	49073.924	1046750.00	1436250.00	Pass	Pass	-37.21
Selenastrum capricornutum	Growth	96 hours	229714.562	384903.317	772200.00	2143550.00	Pass	Pass	-177.59

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Selenastrum capricornutum	Growth	96 hours	229714.562	258378.237	772200.00	2098200.00	Pass	Pass	-171.72
Selenastrum capricornutum	Growth	96 hours	229714.562	226701.145	772200.00	1744425.00	Pass	Pass	-125.90
Selenastrum capricornutum	Growth	96 hours	229714.562	75367.826	772200.00	2184675.00	Pass	Pass	-182.92
Selenastrum capricornutum	Growth	96 hours	229714.562	181341.839	772200.00	2669775.00	Pass	Pass	-245.74
Selenastrum capricornutum	Growth	96 hours	127422.457	212408.694	643475.00	2528900.00	Pass	Pass	-293.01
Selenastrum capricornutum	Growth	96 hours	127422.457	288599.076	643475.00	2297500.00	Pass	Pass	-257.05
Selenastrum capricornutum	Growth	96 hours	127422.457	295228.492	643475.00	2280075.00	Pass	Pass	-254.34
Selenastrum capricornutum	Growth	96 hours	127422.457	115096.260	643475.00	2762375.00	Pass	Pass	-329.29
Selenastrum capricornutum	Growth	96 hours	127422.457	87471.038	643475.00	2912475.00	Pass	Pass	-352.62
Selenastrum capricornutum	Growth	96 hours	5613.896	101660.792	852775.00	2723450.00	Pass	Pass	-219.36
Selenastrum capricornutum	Growth	96 hours	5613.896	117397.143	852775.00	2240225.00	Pass	Pass	-162.70
Selenastrum capricornutum	Growth	96 hours	47835.656	156148.167	243750.00	2508750.00	Pass	Pass	-929.23
Selenastrum capricornutum	Growth	96 hours	13384.693	100867.880	214050.00	1786375.00	Pass	Pass	-734.56
Selenastrum capricornutum	Growth	96 hours	13384.693	107065.665	214050.00	1585150.00	Pass	Pass	-640.55
Selenastrum capricornutum	Growth	96 hours	13384.693	106903.239	214050.00	1154425.00	Pass	Pass	-439.32
Selenastrum capricornutum	Growth	96 hours	13384.693	126131.317	214050.00	1089775.00	Pass	Pass	-409.12
Selenastrum capricornutum	Growth	96 hours	13865.304	342696.546	217800.00	1986675.00	Pass	Pass	-812.16
Selenastrum capricornutum	Growth	96 hours	13865.304	235745.300	217800.00	1595800.00	Pass	Pass	-632.69
Selenastrum capricornutum	Growth	96 hours	13865.304	165809.459	217800.00	1957450.00	Pass	Pass	-798.74
Selenastrum capricornutum	Growth	96 hours	13865.304	44115.332	217800.00	2111275.00	Pass	Pass	-869.36
Selenastrum capricornutum	Growth	96 hours	13865.304	137442.376	217800.00	1755100.00	Pass	Pass	-705.83
Selenastrum capricornutum	Growth	96 hours	15694.373	108900.639	233100.00	929725.00	Pass	Pass	-298.85
Selenastrum capricornutum	Growth	96 hours	15694.373	149023.242	233100.00	1450100.00	Pass	Pass	-522.09
Selenastrum capricornutum	Growth	96 hours	15694.373	43209.567	233100.00	1201600.00	Pass	Pass	-415.49
Selenastrum capricornutum	Growth	96 hours	15694.373	209915.449	233100.00	2035125.00	Pass	Pass	-773.07
Selenastrum capricornutum	Growth	96 hours	77504.301	130216.166	418250.00	2370250.00	Pass	Pass	-466.71
Selenastrum capricornutum	Growth	96 hours	77504.301	37682.887	418250.00	2429000.00	Pass	Pass	-480.75
Selenastrum capricornutum	Growth	96 hours	77504.301	36105.170	418250.00	1407250.00	Pass	Pass	-236.46
Selenastrum capricornutum	Growth	96 hours	77504.301	108308.202	418250.00	2136000.00	Pass	Pass	-410.70
Selenastrum capricornutum	Growth	96 hours	107856.000	58588.964	572250.00	1791000.00	Pass	Pass	-212.98

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	107856.000	60135.264	572250.00	1315250.00	Pass	Pass	-129.84
Selenastrum capricornutum	Growth	96 hours	107856.000	315985.232	572250.00	1295000.00	Pass	Pass	-126.30
Selenastrum capricornutum	Growth	96 hours	107856.000	72898.903	572250.00	1724750.00	Pass	Pass	-201.40
Selenastrum capricornutum	Growth	96 hours	107856.000	70077.933	572250.00	2539750.00	Pass	Pass	-343.82
Selenastrum capricornutum	Growth	96 hours	82309.882	132364.396	488750.00	1759333.33	Pass	Pass	-259.97
Selenastrum capricornutum	Growth	96 hours	82309.882	132972.115	488750.00	1650250.00	Pass	Pass	-237.65
Selenastrum capricornutum	Growth	96 hours	82309.882	72537.347	488750.00	1643500.00	Pass	Pass	-236.27
Selenastrum capricornutum	Growth	96 hours	82309.882	58903.876	488750.00	1758500.00	Pass	Pass	-259.80
Selenastrum capricornutum	Growth	96 hours	63786.101	506778.962	1379000.00	1662750.00	Pass	Pass	-20.58
Selenastrum capricornutum	Growth	96 hours	63786.101	231451.939	1379000.00	2280000.00	Pass	Pass	-65.34
Selenastrum capricornutum	Growth	96 hours	63786.101	189758.399	1379000.00	2961250.00	Pass	Pass	-114.74
Selenastrum capricornutum	Growth	96 hours	73551.343	109142.109	380400.00	1883000.00	Pass	Pass	-395.01
Selenastrum capricornutum	Growth	96 hours	73551.343	124608.721	380400.00	1935000.00	Pass	Pass	-408.68
Selenastrum capricornutum	Growth	96 hours	152871.406	137674.435	1653500.00	2104250.00	Pass	Pass	-27.26
Selenastrum capricornutum	Growth	96 hours	77448.370	137674.435	1504750.00	2104250.00	Pass	Pass	-39.84
Selenastrum capricornutum	Growth	96 hours	152871.406	109675.278	1653500.00	1277000.00	Fail	Fail	22.77
Selenastrum capricornutum	Growth	96 hours	77448.370	109675.278	1504750.00	1277000.00	Pass	Fail	15.14
Selenastrum capricornutum	Growth	96 hours	152871.406	96931.247	1653500.00	1439500.00	Pass	Pass	12.94
Selenastrum capricornutum	Growth	96 hours	152871.406	144204.427	1653500.00	1262750.00	Fail	Fail	23.63
Selenastrum capricornutum	Growth	96 hours	152871.406	202912.953	1653500.00	1691500.00	Pass	Pass	-2.30
Selenastrum capricornutum	Growth	96 hours	77448.370	202912.953	1504750.00	1691500.00	Pass	Pass	-12.41
Selenastrum capricornutum	Growth	96 hours	152871.406	147129.195	1653500.00	2412500.00	Pass	Pass	-45.90
Selenastrum capricornutum	Growth	96 hours	77448.370	147129.195	1504750.00	2412500.00	Pass	Pass	-60.33
Selenastrum capricornutum	Growth	96 hours	152871.406	269736.909	1653500.00	2196000.00	Pass	Pass	-32.81
Selenastrum capricornutum	Growth	96 hours	77448.370	269736.909	1504750.00	2196000.00	Pass	Pass	-45.94
Selenastrum capricornutum	Growth	96 hours	152871.406	86691.022	1653500.00	1679000.00	Pass	Pass	-1.54
Selenastrum capricornutum	Growth	96 hours	77448.370	86691.022	1504750.00	1679000.00	Pass	Pass	-11.58
Selenastrum capricornutum	Growth	96 hours	140381.326	545488.390	1688250.00	1662750.00	Pass	Pass	1.51
Selenastrum capricornutum	Growth	96 hours	152871.406	56993.421	1653500.00	2175750.00	Pass	Pass	-31.58
Selenastrum capricornutum	Growth	96 hours	77448.370	56993.421	1504750.00	2175750.00	Pass	Pass	-44.59

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	152871.406	338672.285	1653500.00	2072750.00	Pass	Pass	-25.36
Selenastrum capricornutum	Growth	96 hours	77448.370	338672.285	1504750.00	2072750.00	Pass	Pass	-37.75
Selenastrum capricornutum	Growth	96 hours	152871.406	331743.375	1653500.00	1919500.00	Pass	Pass	-16.09
Selenastrum capricornutum	Growth	96 hours	77448.370	331743.375	1504750.00	1919500.00	Pass	Pass	-27.56
Selenastrum capricornutum	Growth	96 hours	152871.406	46028.976	1653500.00	3234000.00	Pass	Pass	-95.59
Selenastrum capricornutum	Growth	96 hours	77448.370	46028.976	1504750.00	3234000.00	Pass	Pass	-114.92
Selenastrum capricornutum	Growth	96 hours	152871.406	302028.006	1653500.00	1964750.00	Pass	Pass	-18.82
Selenastrum capricornutum	Growth	96 hours	77448.370	302028.006	1504750.00	1964750.00	Pass	Pass	-30.57
Selenastrum capricornutum	Growth	96 hours	152871.406	77916.622	1653500.00	491500.00	Fail	Fail	70.28
Selenastrum capricornutum	Growth	96 hours	178113.026	196961.079	1586750.00	2581500.00	Pass	Pass	-62.69
Selenastrum capricornutum	Growth	96 hours	178113.026	325798.890	1586750.00	2287250.00	Pass	Pass	-44.15
Selenastrum capricornutum	Growth	96 hours	178113.026	516498.790	1586750.00	1306500.00	Fail	Pass	17.66
Selenastrum capricornutum	Growth	96 hours	140381.326	228054.087	1688250.00	1958000.00	Pass	Pass	-15.98
Selenastrum capricornutum	Growth	96 hours	140381.326	228054.087	1688250.00	1958000.00	Pass	Pass	-15.98
Selenastrum capricornutum	Growth	96 hours	140381.326	134216.243	1688250.00	2397000.00	Pass	Pass	-41.98
Selenastrum capricornutum	Growth	96 hours	140381.326	134216.243	1688250.00	2397000.00	Pass	Pass	-41.98
Selenastrum capricornutum	Growth	96 hours	140381.326	241103.539	1688250.00	1745250.00	Pass	Pass	-3.38
Selenastrum capricornutum	Growth	96 hours	140381.326	241103.539	1688250.00	1745250.00	Pass	Pass	-3.38
Selenastrum capricornutum	Growth	96 hours	71345.988	296293.211	1132250.00	2161500.00	Pass	Pass	-90.90
Selenastrum capricornutum	Growth	96 hours	71345.988	422363.587	1132250.00	2074500.00	Pass	Pass	-83.22
Selenastrum capricornutum	Growth	96 hours	71345.988	168723.640	1132250.00	2392500.00	Pass	Pass	-111.30
Selenastrum capricornutum	Growth	96 hours	71345.988	316430.482	1132250.00	1561750.00	Pass	Pass	-37.93
Selenastrum capricornutum	Growth	96 hours	71345.988	138281.115	1132250.00	1219500.00	Pass	Pass	-7.71
Selenastrum capricornutum	Growth	96 hours	71345.988	263918.390	1132250.00	1926750.00	Pass	Pass	-70.17
Selenastrum capricornutum	Growth	96 hours	71345.988	128144.125	1132250.00	1488250.00	Pass	Pass	-31.44
Selenastrum capricornutum	Growth	96 hours	74227.129	168157.416	562500.00	2049750.00	Pass	Pass	-264.40
Selenastrum capricornutum	Growth	96 hours	74227.129	116694.759	562500.00	1818500.00	Pass	Pass	-223.29
Selenastrum capricornutum	Growth	96 hours	74227.129	165425.462	562500.00	2401750.00	Pass	Pass	-326.98
Selenastrum capricornutum	Growth	96 hours	74227.129	187512.666	562500.00	2099500.00	Pass	Pass	-273.24
Selenastrum capricornutum	Growth	96 hours	20008.332	139721.151	214500.00	2013000.00	Pass	Pass	-838.46

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	20008.332	163858.425	214500.00	1441250.00	Pass	Pass	-571.91
Selenastrum capricornutum	Growth	96 hours	20008.332	123130.013	214500.00	1593500.00	Pass	Pass	-642.89
Selenastrum capricornutum	Growth	96 hours	20008.332	336059.890	214500.00	875750.00	Pass	Pass	-308.28
Selenastrum capricornutum	Growth	96 hours	20008.332	131545.936	214500.00	2509500.00	Pass	Pass	-1069.93
Selenastrum capricornutum	Growth	96 hours	117664.424	138149.677	1718750.00	1710000.00	Pass	Pass	0.51
Selenastrum capricornutum	Growth	96 hours	117664.424	199468.251	1718750.00	1739250.00	Pass	Pass	-1.19
Selenastrum capricornutum	Growth	96 hours	117664.424	256859.884	1718750.00	1636500.00	Pass	Pass	4.79
Selenastrum capricornutum	Growth	96 hours	117664.424	82012.194	1718750.00	1576000.00	Pass	Fail	8.31
Selenastrum capricornutum	Growth	96 hours	117664.424	107224.064	1718750.00	1754500.00	Pass	Pass	-2.08
Selenastrum capricornutum	Growth	96 hours	117664.424	268667.545	1718750.00	2136750.00	Pass	Pass	-24.32
Selenastrum capricornutum	Growth	96 hours	117664.424	113420.677	1718750.00	2516250.00	Pass	Pass	-46.40
Selenastrum capricornutum	Growth	96 hours	117664.424	225378.755	1718750.00	2457750.00	Pass	Pass	-43.00
Selenastrum capricornutum	Growth	96 hours	117664.424	313713.776	1718750.00	1668500.00	Pass	Pass	2.92
Selenastrum capricornutum	Growth	96 hours	117664.424	283753.855	1718750.00	2615250.00	Pass	Pass	-52.16
Selenastrum capricornutum	Growth	96 hours	117664.424	313503.854	1718750.00	2841000.00	Pass	Pass	-65.29
Selenastrum capricornutum	Growth	96 hours	117664.424	265778.103	1718750.00	2099000.00	Pass	Pass	-22.12
Selenastrum capricornutum	Growth	96 hours	11757.976	67633.202	230250.00	2321750.00	Pass	Pass	-908.36
Selenastrum capricornutum	Growth	96 hours	11757.976	73704.364	230250.00	2243500.00	Pass	Pass	-874.38
Selenastrum capricornutum	Growth	96 hours	11757.976	369473.838	230250.00	2070250.00	Pass	Pass	-799.13
Selenastrum capricornutum	Growth	96 hours	11757.976	413672.475	230250.00	2666750.00	Pass	Pass	-1058.20
Selenastrum capricornutum	Growth	96 hours	11757.976	210898.672	230250.00	1893750.00	Pass	Pass	-722.48
Selenastrum capricornutum	Growth	96 hours	148939.305	228190.527	785750.00	1926750.00	Pass	Pass	-145.21
Selenastrum capricornutum	Growth	96 hours	148939.305	98171.194	785750.00	2072250.00	Pass	Pass	-163.73
Selenastrum capricornutum	Growth	96 hours	148939.305	98640.762	785750.00	1956000.00	Pass	Pass	-148.93
Selenastrum capricornutum	Growth	96 hours	148939.305	26820.390	785750.00	2010000.00	Pass	Pass	-155.81
Selenastrum capricornutum	Growth	96 hours	30739.497	39353.102	643250.00	2390000.00	Pass	Pass	-271.55
Selenastrum capricornutum	Growth	96 hours	30739.497	160541.791	643250.00	1836500.00	Pass	Pass	-185.50
Selenastrum capricornutum	Growth	96 hours	30739.497	257982.396	643250.00	1998750.00	Pass	Pass	-210.73
Selenastrum capricornutum	Growth	96 hours	30739.497	245336.504	643250.00	1925000.00	Pass	Pass	-199.26
Selenastrum capricornutum	Growth	96 hours	30739.497	112283.495	643250.00	2304750.00	Pass	Pass	-258.30

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	21422.340	196950.925	678250.00	1690500.00	Pass	Pass	-149.24
Selenastrum capricornutum	Growth	96 hours	21422.340	304491.242	678250.00	1451250.00	Pass	Pass	-113.97
Selenastrum capricornutum	Growth	96 hours	292692.102	290097.685	1503000.00	3835000.00	Pass	Pass	-155.16
Selenastrum capricornutum	Growth	96 hours	292692.102	148059.391	1503000.00	1666750.00	Pass	Pass	-10.89
Selenastrum capricornutum	Growth	96 hours	116477.466	476423.131	1376500.00	2250500.00	Pass	Pass	-63.49
Selenastrum capricornutum	Growth	96 hours	116477.466	79235.409	1376500.00	1399750.00	Pass	Pass	-1.69
Selenastrum capricornutum	Growth	96 hours	116477.466	734071.920	1376500.00	2178750.00	Pass	Pass	-58.28
Selenastrum capricornutum	Growth	96 hours	37331.845	458801.337	1537500.00	1823000.00	Pass	Pass	-18.57
Selenastrum capricornutum	Growth	96 hours	37331.845	393414.434	1537500.00	2299750.00	Pass	Pass	-49.58
Selenastrum capricornutum	Growth	96 hours	37331.845	390093.472	1537500.00	2052750.00	Pass	Pass	-33.51
Selenastrum capricornutum	Growth	96 hours	37331.845	252862.776	1537500.00	2881750.00	Pass	Pass	-87.43
Selenastrum capricornutum	Growth	96 hours	37331.845	408405.028	1537500.00	3890000.00	Pass	Pass	-153.01
Selenastrum capricornutum	Growth	96 hours	229504.539	337537.158	1514500.00	2573000.00	Pass	Pass	-69.89
Selenastrum capricornutum	Growth	96 hours	229504.539	240655.182	1514500.00	3096250.00	Pass	Pass	-104.44
Selenastrum capricornutum	Growth	96 hours	229504.539	304247.158	1514500.00	2408500.00	Pass	Pass	-59.03
Selenastrum capricornutum	Growth	96 hours	229504.539	196996.404	1514500.00	2312250.00	Pass	Pass	-52.67
Selenastrum capricornutum	Growth	96 hours	119329.725	263165.981	1442250.00	2355500.00	Pass	Pass	-63.32
Selenastrum capricornutum	Growth	96 hours	119329.725	336395.972	1442250.00	2616250.00	Pass	Pass	-81.40
Selenastrum capricornutum	Growth	96 hours	149858.822	165270.233	1722500.00	3432250.00	Pass	Pass	-99.26
Selenastrum capricornutum	Growth	96 hours	149858.822	269618.249	1722500.00	1317000.00	Fail	Fail	23.54
Selenastrum capricornutum	Growth	96 hours	149858.822	136846.629	1722500.00	1723500.00	Pass	Pass	-0.06
Selenastrum capricornutum	Growth	96 hours	149858.822	139042.859	1722500.00	2532750.00	Pass	Pass	-47.04
Selenastrum capricornutum	Growth	96 hours	149858.822	426589.088	1722500.00	2172250.00	Pass	Pass	-26.11
Selenastrum capricornutum	Growth	96 hours	314886.620	368981.933	1624750.00	1697500.00	Pass	Pass	-4.48
Selenastrum capricornutum	Growth	96 hours	314886.620	510702.457	1624750.00	2022500.00	Pass	Pass	-24.48
Selenastrum capricornutum	Growth	96 hours	112123.072	266114.011	1171250.00	1504000.00	Pass	Pass	-28.41
Selenastrum capricornutum	Growth	96 hours	112123.072	323654.523	1171250.00	3677750.00	Pass	Pass	-214.00
Selenastrum capricornutum	Growth	96 hours	112123.072	394440.110	1171250.00	1728500.00	Pass	Pass	-47.58
Selenastrum capricornutum	Growth	96 hours	211528.367	167057.625	1177250.00	1812250.00	Pass	Pass	-53.94
Selenastrum capricornutum	Growth	96 hours	211528.367	434183.813	1177250.00	1550250.00	Pass	Pass	-31.68

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Selenastrum capricornutum	Growth	96 hours	154601.639	22664.216	1089500.00	1627500.00	Pass	Pass	-49.38
Selenastrum capricornutum	Growth	96 hours	154601.639	345043.355	1089500.00	1480750.00	Pass	Pass	-35.91
Selenastrum capricornutum	Growth	96 hours	154601.639	139406.779	1089500.00	2199250.00	Pass	Pass	-101.86
Selenastrum capricornutum	Growth	96 hours	154601.639	149954.160	1089500.00	2052250.00	Pass	Pass	-88.37
Selenastrum capricornutum	Growth	96 hours	181770.001	172364.923	984500.00	2024500.00	Pass	Pass	-105.64
Selenastrum capricornutum	Growth	96 hours	181770.001	258721.858	984500.00	1632500.00	Pass	Pass	-65.82
Selenastrum capricornutum	Growth	96 hours	181770.001	91715.139	984500.00	2210500.00	Pass	Pass	-124.53
Selenastrum capricornutum	Growth	96 hours	181770.001	126415.650	984500.00	1977750.00	Pass	Pass	-100.89
Selenastrum capricornutum	Growth	96 hours	181770.001	144493.079	984500.00	2036250.00	Pass	Pass	-106.83
Selenastrum capricornutum	Growth	96 hours	219332.890	185420.918	1341750.00	1821750.00	Pass	Pass	-35.77
Selenastrum capricornutum	Growth	96 hours	219332.890	80950.602	1341750.00	1902500.00	Pass	Pass	-41.79
Selenastrum capricornutum	Growth	96 hours	219332.890	41713.307	1341750.00	2063000.00	Pass	Pass	-53.75
Selenastrum capricornutum	Growth	96 hours	119502.789	87480.950	1144250.00	1808750.00	Pass	Pass	-58.07
Selenastrum capricornutum	Growth	96 hours	119502.789	85564.790	1144250.00	1750000.00	Pass	Pass	-52.94
Selenastrum capricornutum	Growth	96 hours	118300.465	83436.603	591500.00	3088500.00	Pass	Pass	-422.15
Selenastrum capricornutum	Growth	96 hours	118300.465	179771.151	591500.00	2775500.00	Pass	Pass	-369.23
Selenastrum capricornutum	Growth	96 hours	118300.465	108803.722	591500.00	1534250.00	Pass	Pass	-159.38
Selenastrum capricornutum	Growth	96 hours	225019.073	70223.453	1356250.00	232000.00	Fail	Fail	82.89
Selenastrum capricornutum	Growth	96 hours	35916.570	70223.453	215000.00	232000.00	Pass	Pass	-7.91
Selenastrum capricornutum	Growth	96 hours	225019.073	11500.000	1356250.00	227250.00	Fail	Fail	83.24
Selenastrum capricornutum	Growth	96 hours	35916.570	11500.000	215000.00	227250.00	Pass	Pass	-5.70
Selenastrum capricornutum	Growth	96 hours	225019.073	274448.538	1356250.00	1405000.00	Pass	Pass	-3.59
Selenastrum capricornutum	Growth	96 hours	35916.570	274448.538	215000.00	1405000.00	Pass	Pass	-553.49
Selenastrum capricornutum	Growth	96 hours	225019.073	700109.694	1356250.00	2480750.00	Pass	Pass	-82.91
Selenastrum capricornutum	Growth	96 hours	35916.570	700109.694	215000.00	2480750.00	Pass	Pass	-1053.84
Selenastrum capricornutum	Growth	96 hours	225019.073	436588.574	1356250.00	1474750.00	Pass	Pass	-8.74
Selenastrum capricornutum	Growth	96 hours	35916.570	436588.574	215000.00	1474750.00	Pass	Pass	-585.93
Selenastrum capricornutum	Growth	96 hours	35916.570	47967.871	215000.00	291750.00	Pass	Pass	-35.70
Selenastrum capricornutum	Growth	96 hours	225019.073	74363.970	1356250.00	265000.00	Fail	Fail	80.46
Selenastrum capricornutum	Growth	96 hours	35916.570	74363.970	215000.00	265000.00	Pass	Pass	-23.26

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Selenastrum capricornutum	Growth	96 hours	225019.073	466170.480	1356250.00	1685250.00	Pass	Pass	-24.26
Selenastrum capricornutum	Growth	96 hours	35916.570	466170.480	215000.00	1685250.00	Pass	Pass	-683.84
Selenastrum capricornutum	Growth	96 hours	225019.073	230712.664	1356250.00	2076500.00	Pass	Pass	-53.11
Selenastrum capricornutum	Growth	96 hours	35916.570	230712.664	215000.00	2076500.00	Pass	Pass	-865.81
Selenastrum capricornutum	Growth	96 hours	26236.107	49297.566	208500.00	363750.00	Pass	Pass	-74.46
Selenastrum capricornutum	Growth	96 hours	26236.107	26166.136	208500.00	335000.00	Pass	Pass	-60.67
Selenastrum capricornutum	Growth	96 hours	26236.107	43332.051	208500.00	231500.00	Pass	Pass	-11.03
Selenastrum capricornutum	Growth	96 hours	261040.227	129162.366	1110000.00	1390750.00	Pass	Pass	-25.29
Selenastrum capricornutum	Growth	96 hours	80442.008	144587.920	998250.00	1001500.00	Pass	Pass	-0.33
Selenastrum capricornutum	Growth	96 hours	20542.639	92902.727	366000.00	1275750.00	Pass	Pass	-248.57
Selenastrum capricornutum	Growth	96 hours	20542.639	34684.290	366000.00	957500.00	Pass	Pass	-161.61
Selenastrum capricornutum	Growth	96 hours	20542.639	237324.497	366000.00	1031250.00	Pass	Pass	-181.76
Selenastrum capricornutum	Growth	96 hours	80442.008	60218.353	998250.00	797250.00	Pass	Fail	20.14
Selenastrum capricornutum	Growth	96 hours	215954.278	660774.482	1625750.00	2445750.00	Pass	Pass	-50.44
Selenastrum capricornutum	Growth	96 hours	199055.059	64554.886	1647250.00	1810000.00	Pass	Pass	-9.88
Selenastrum capricornutum	Growth	96 hours	199055.059	230404.536	1647250.00	1636250.00	Pass	Pass	0.67
Selenastrum capricornutum	Growth	96 hours	199055.059	181505.739	1647250.00	910500.00	Fail	Fail	44.73
Selenastrum capricornutum	Growth	96 hours	199055.059	213969.624	1647250.00	1624500.00	Pass	Pass	1.38
Selenastrum capricornutum	Growth	96 hours	199055.059	61500.000	1647250.00	1301750.00	Pass	Fail	20.97
Selenastrum capricornutum	Growth	96 hours	199055.059	66103.454	1647250.00	1968500.00	Pass	Pass	-19.50
Selenastrum capricornutum	Growth	96 hours	159996.875	407308.646	1407500.00	1505500.00	Pass	Pass	-6.96
Selenastrum capricornutum	Growth	96 hours	59974.300	172521.255	494250.00	1020250.00	Pass	Pass	-106.42
Selenastrum capricornutum	Growth	96 hours	99374.712	116425.584	915000.00	2652250.00	Pass	Pass	-189.86
Selenastrum capricornutum	Growth	96 hours	99374.712	146611.732	915000.00	2315500.00	Pass	Pass	-153.06
Selenastrum capricornutum	Growth	96 hours	99374.712	305097.799	915000.00	2493000.00	Pass	Pass	-172.46
Selenastrum capricornutum	Growth	96 hours	99374.712	445471.567	915000.00	1303250.00	Pass	Pass	-42.43
Selenastrum capricornutum	Growth	96 hours	44493.445	93368.446	1260500.00	1990500.00	Pass	Pass	-57.91
Selenastrum capricornutum	Growth	96 hours	299726.959	287307.472	1733125.00	2522250.00	Pass	Pass	-45.53
Selenastrum capricornutum	Growth	96 hours	150176.285	287307.472	1732250.00	2522250.00	Pass	Pass	-45.61
Selenastrum capricornutum	Growth	96 hours	299726.959	248516.096	1733125.00	2424750.00	Pass	Pass	-39.91

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	150176.285	248516.096	1732250.00	2424750.00	Pass	Pass	-39.98
Selenastrum capricornutum	Growth	96 hours	299726.959	296753.967	1733125.00	2419750.00	Pass	Pass	-39.62
Selenastrum capricornutum	Growth	96 hours	150176.285	296753.967	1732250.00	2419750.00	Pass	Pass	-39.69
Selenastrum capricornutum	Growth	96 hours	299726.959	163878.003	1733125.00	2086000.00	Pass	Pass	-20.36
Selenastrum capricornutum	Growth	96 hours	150176.285	163878.003	1732250.00	2086000.00	Pass	Pass	-20.42
Selenastrum capricornutum	Growth	96 hours	299726.959	226511.773	1733125.00	2074250.00	Pass	Pass	-19.68
Selenastrum capricornutum	Growth	96 hours	150176.285	226511.773	1732250.00	2074250.00	Pass	Pass	-19.74
Selenastrum capricornutum	Growth	96 hours	299726.959	216705.638	1733125.00	1911000.00	Pass	Pass	-10.26
Selenastrum capricornutum	Growth	96 hours	150176.285	216705.638	1732250.00	1911000.00	Pass	Pass	-10.32
Selenastrum capricornutum	Growth	96 hours	299726.959	255687.961	1733125.00	2306500.00	Pass	Pass	-33.08
Selenastrum capricornutum	Growth	96 hours	150176.285	255687.961	1732250.00	2306500.00	Pass	Pass	-33.15
Selenastrum capricornutum	Growth	96 hours	299726.959	520496.798	1733125.00	2120750.00	Pass	Pass	-22.37
Selenastrum capricornutum	Growth	96 hours	150176.285	520496.798	1732250.00	2120750.00	Pass	Pass	-22.43
Selenastrum capricornutum	Growth	96 hours	299726.959	415672.146	1733125.00	1529000.00	Pass	Pass	11.78
Selenastrum capricornutum	Growth	96 hours	299726.959	10120676.999	1733125.00	7379250.00	Pass	Pass	-325.78
Selenastrum capricornutum	Growth	96 hours	150176.285	10120676.999	1732250.00	7379250.00	Pass	Pass	-325.99
Selenastrum capricornutum	Growth	96 hours	299726.959	152013.980	1733125.00	2519750.00	Pass	Pass	-45.39
Selenastrum capricornutum	Growth	96 hours	150176.285	152013.980	1732250.00	2519750.00	Pass	Pass	-45.46
Selenastrum capricornutum	Growth	96 hours	299726.959	45902.070	1733125.00	2492500.00	Pass	Pass	-43.82
Selenastrum capricornutum	Growth	96 hours	150176.285	45902.070	1732250.00	2492500.00	Pass	Pass	-43.89
Selenastrum capricornutum	Growth	96 hours	299726.959	283744.603	1733125.00	2250500.00	Pass	Pass	-29.85
Selenastrum capricornutum	Growth	96 hours	150176.285	283744.603	1732250.00	2250500.00	Pass	Pass	-29.92
Selenastrum capricornutum	Growth	96 hours	299726.959	215452.044	1733125.00	2259250.00	Pass	Pass	-30.36
Selenastrum capricornutum	Growth	96 hours	150176.285	215452.044	1732250.00	2259250.00	Pass	Pass	-30.42
Selenastrum capricornutum	Growth	96 hours	299726.959	111443.184	1733125.00	2910250.00	Pass	Pass	-67.92
Selenastrum capricornutum	Growth	96 hours	150176.285	111443.184	1732250.00	2910250.00	Pass	Pass	-68.00
Selenastrum capricornutum	Growth	96 hours	299726.959	298414.700	1733125.00	2566000.00	Pass	Pass	-48.06
Selenastrum capricornutum	Growth	96 hours	150176.285	298414.700	1732250.00	2566000.00	Pass	Pass	-48.13
Selenastrum capricornutum	Growth	96 hours	299726.959	440007.954	1733125.00	2268500.00	Pass	Pass	-30.89
Selenastrum capricornutum	Growth	96 hours	150176.285	440007.954	1732250.00	2268500.00	Pass	Pass	-30.96

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Selenastrum capricornutum	Growth	96 hours	299726.959	124410.610	1733125.00	2839000.00	Pass	Pass	-63.81
Selenastrum capricornutum	Growth	96 hours	150176.285	124410.610	1732250.00	2839000.00	Pass	Pass	-63.89
Selenastrum capricornutum	Growth	96 hours	299726.959	229706.153	1733125.00	2571250.00	Pass	Pass	-48.36
Selenastrum capricornutum	Growth	96 hours	150176.285	229706.153	1732250.00	2571250.00	Pass	Pass	-48.43
Selenastrum capricornutum	Growth	96 hours	299726.959	540894.552	1733125.00	2381250.00	Pass	Pass	-37.40
Selenastrum capricornutum	Growth	96 hours	150176.285	540894.552	1732250.00	2381250.00	Pass	Pass	-37.47
Selenastrum capricornutum	Growth	96 hours	299726.959	614844.899	1733125.00	1245750.00	Fail	Pass	28.12
Selenastrum capricornutum	Growth	96 hours	38957.242	171297.986	609500.00	959500.00	Pass	Pass	-57.42
Selenastrum capricornutum	Growth	96 hours	38957.242	210770.808	609500.00	1334333.33	Pass	Pass	-118.92
Selenastrum capricornutum	Growth	96 hours	38957.242	725173.313	609500.00	1450500.00	Pass	Pass	-137.98
Selenastrum capricornutum	Growth	96 hours	38957.242	422829.359	609500.00	1885000.00	Pass	Pass	-209.27
Selenastrum capricornutum	Growth	96 hours	196086.716	107666.151	1360000.00	1853000.00	Pass	Pass	-36.25
Selenastrum capricornutum	Growth	96 hours	196086.716	544164.421	1360000.00	1404250.00	Pass	Pass	-3.25
Selenastrum capricornutum	Growth	96 hours	91061.792	56935.636	1346750.00	1905500.00	Pass	Pass	-41.49
Selenastrum capricornutum	Growth	96 hours	91061.792	132527.984	1346750.00	1725500.00	Pass	Pass	-28.12
Selenastrum capricornutum	Growth	96 hours	91061.792	179679.344	1346750.00	2333000.00	Pass	Pass	-73.23
Selenastrum capricornutum	Growth	96 hours	91061.792	66979.474	1346750.00	1626750.00	Pass	Pass	-20.79
Selenastrum capricornutum	Growth	96 hours	91061.792	183211.171	1346750.00	1215500.00	Pass	Pass	9.75
Selenastrum capricornutum	Growth	96 hours	91061.792	39584.298	1346750.00	1805250.00	Pass	Pass	-34.04
Selenastrum capricornutum	Growth	96 hours	255203.187	209369.689	1657000.00	2671500.00	Pass	Pass	-61.23
Selenastrum capricornutum	Growth	96 hours	255203.187	75846.336	1657000.00	1630000.00	Pass	Pass	1.63
Selenastrum capricornutum	Growth	96 hours	255203.187	54701.463	1657000.00	1223250.00	Fail	Fail	26.18
Selenastrum capricornutum	Growth	96 hours	255203.187	603062.739	1657000.00	1368000.00	Fail	Pass	17.44
Selenastrum capricornutum	Growth	96 hours	204560.301	107825.090	1801250.00	1788250.00	Pass	Pass	0.72
Selenastrum capricornutum	Growth	96 hours	204560.301	117487.588	1801250.00	1897000.00	Pass	Pass	-5.32
Selenastrum capricornutum	Growth	96 hours	204560.301	230872.259	1801250.00	1291000.00	Fail	Fail	28.33
Selenastrum capricornutum	Growth	96 hours	204560.301	700167.123	1801250.00	1613000.00	Fail	Pass	10.45
Selenastrum capricornutum	Growth	96 hours	204560.301	97534.182	1801250.00	1699750.00	Pass	Pass	5.63
Selenastrum capricornutum	Growth	96 hours	204560.301	260538.385	1801250.00	1928250.00	Pass	Pass	-7.05
Selenastrum capricornutum	Growth	96 hours	181189.588	159488.767	1627500.00	3225000.00	Pass	Pass	-98.16

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Selenastrum capricornutum	Growth	96 hours	181189.588	411716.225	1627500.00	1846750.00	Pass	Pass	-13.47
Selenastrum capricornutum	Growth	96 hours	135308.290	67103.775	1006500.00	3378750.00	Pass	Pass	-235.69
Selenastrum capricornutum	Growth	96 hours	135308.290	40044.767	1006500.00	3484250.00	Pass	Pass	-246.17
Selenastrum capricornutum	Growth	96 hours	138075.764	88383.162	1329750.00	2423250.00	Pass	Pass	-82.23
Selenastrum capricornutum	Growth	96 hours	138075.764	59095.262	1329750.00	753750.00	Fail	Fail	43.32
Selenastrum capricornutum	Growth	96 hours	138075.764	196277.015	1329750.00	1587000.00	Pass	Pass	-19.35
Selenastrum capricornutum	Growth	96 hours	138075.764	424050.705	1329750.00	2516500.00	Pass	Pass	-89.25
Selenastrum capricornutum	Growth	96 hours	129296.494	252576.556	1214250.00	680250.00	Fail	Fail	43.98
Selenastrum capricornutum	Growth	96 hours	270391.537	324429.114	1495750.00	2400750.00	Pass	Pass	-60.50
Selenastrum capricornutum	Growth	96 hours	270391.537	2160.247	1495750.00	4184000.00	Pass	Pass	-179.73
Selenastrum capricornutum	Growth	96 hours	270391.537	243237.881	1495750.00	3369000.00	Pass	Pass	-125.24
Selenastrum capricornutum	Growth	96 hours	56706.114	283571.713	1328750.00	1977750.00	Pass	Pass	-48.84
Selenastrum capricornutum	Growth	96 hours	56706.114	91889.426	1328750.00	3397500.00	Pass	Pass	-155.69
Selenastrum capricornutum	Growth	96 hours	56706.114	49949.141	1328750.00	3290250.00	Pass	Pass	-147.62
Selenastrum capricornutum	Growth	96 hours	56706.114	86671.795	1328750.00	3239000.00	Pass	Pass	-143.76
Selenastrum capricornutum	Growth	96 hours	56706.114	119569.715	1328750.00	3141250.00	Pass	Pass	-136.41
Selenastrum capricornutum	Growth	96 hours	255494.945	443563.599	1747500.00	2496000.00	Pass	Pass	-42.83
Selenastrum capricornutum	Growth	96 hours	255494.945	114840.469	1747500.00	2301500.00	Pass	Pass	-31.70
Selenastrum capricornutum	Growth	96 hours	255494.945	238903.572	1747500.00	2226250.00	Pass	Pass	-27.40
Selenastrum capricornutum	Growth	96 hours	255494.945	435329.760	1747500.00	2422000.00	Pass	Pass	-38.60
Selenastrum capricornutum	Growth	96 hours	121908.094	267260.641	1543250.00	1449750.00	Pass	Pass	6.06
Selenastrum capricornutum	Growth	96 hours	121908.094	84791.902	1543250.00	2376500.00	Pass	Pass	-53.99
Selenastrum capricornutum	Growth	96 hours	121908.094	154500.000	1543250.00	3616250.00	Pass	Pass	-134.33
Selenastrum capricornutum	Growth	96 hours	121908.094	12369.317	1543250.00	212500.00	Fail	Fail	86.23
Selenastrum capricornutum	Growth	96 hours	206806.472	608008.977	1487250.00	2305750.00	Pass	Pass	-55.03
Selenastrum capricornutum	Growth	96 hours	206806.472	100194.810	1487250.00	1234500.00	Pass	Fail	16.99
Selenastrum capricornutum	Growth	96 hours	151722.059	170400.509	1364750.00	2702500.00	Pass	Pass	-98.02
Selenastrum capricornutum	Growth	96 hours	204560.301	40369.130	1801250.00	1414500.00	Pass	Fail	21.47
Selenastrum capricornutum	Growth	96 hours	204560.301	282355.568	1801250.00	1730000.00	Pass	Pass	3.96
Selenastrum capricornutum	Growth	96 hours	204560.301	228570.923	1801250.00	1384000.00	Fail	Fail	23.16

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Selenastrum capricornutum	Growth	96 hours	204560.301	855230.330	1801250.00	1537250.00	Fail	Pass	14.66
Selenastrum capricornutum	Growth	96 hours	204560.301	20774.584	1801250.00	128750.00	Fail	Fail	92.85
Selenastrum capricornutum	Growth	96 hours	204560.301	350157.465	1801250.00	2491750.00	Pass	Pass	-38.33
Selenastrum capricornutum	Growth	96 hours	204560.301	91091.529	1801250.00	2622500.00	Pass	Pass	-45.59
Selenastrum capricornutum	Growth	96 hours	204560.301	204560.301	1801250.00	1801250.00	Pass	Pass	0.00
Selenastrum capricornutum	Growth	96 hours	204560.301	193343.175	1801250.00	2718250.00	Pass	Pass	-50.91
Selenastrum capricornutum	Growth	96 hours	204560.301	149475.751	1801250.00	3022500.00	Pass	Pass	-67.80
Selenastrum capricornutum	Growth	96 hours	204560.301	20338.797	1801250.00	333500.00	Fail	Fail	81.49
Selenastrum capricornutum	Growth	96 hours	59847.027	169442.960	714500.00	2137750.00	Pass	Pass	-199.20
Selenastrum capricornutum	Growth	96 hours	59847.027	231920.964	714500.00	1276000.00	Pass	Pass	-78.59
Selenastrum capricornutum	Growth	96 hours	59847.027	158384.290	714500.00	1369250.00	Pass	Pass	-91.64
Selenastrum capricornutum	Growth	96 hours	59847.027	238781.630	714500.00	2704000.00	Pass	Pass	-278.45
Selenastrum capricornutum	Growth	96 hours	57657.032	253406.130	408500.00	1996000.00	Pass	Pass	-388.62
Selenastrum capricornutum	Growth	96 hours	57657.032	268554.774	408500.00	1627500.00	Pass	Pass	-298.41
Selenastrum capricornutum	Growth	96 hours	57657.032	59090.326	408500.00	436500.00	Pass	Pass	-6.85
Selenastrum capricornutum	Growth	96 hours	57657.032	123731.901	408500.00	2045250.00	Pass	Pass	-400.67
Selenastrum capricornutum	Growth	96 hours	57657.032	223855.608	408500.00	2512000.00	Pass	Pass	-514.93
Selenastrum capricornutum	Growth	96 hours	43852.024	69274.214	438500.00	1523750.00	Pass	Pass	-247.49
Selenastrum capricornutum	Growth	96 hours	43852.024	110492.835	438500.00	2270000.00	Pass	Pass	-417.67
Selenastrum capricornutum	Growth	96 hours	43852.024	243917.165	438500.00	2501750.00	Pass	Pass	-470.52
Selenastrum capricornutum	Growth	96 hours	43852.024	362554.823	438500.00	1814000.00	Pass	Pass	-313.68
Selenastrum capricornutum	Growth	96 hours	43852.024	189351.525	438500.00	1704000.00	Pass	Pass	-288.60
Selenastrum capricornutum	Growth	96 hours	214881.944	360573.039	1237250.00	1838750.00	Pass	Pass	-48.62
Selenastrum capricornutum	Growth	96 hours	214881.944	347656.440	1237250.00	1637500.00	Pass	Pass	-32.35
Selenastrum capricornutum	Growth	96 hours	214881.944	436492.841	1237250.00	1218000.00	Pass	Pass	1.56
Selenastrum capricornutum	Growth	96 hours	214881.944	258908.607	1237250.00	1879500.00	Pass	Pass	-51.91
Selenastrum capricornutum	Growth	96 hours	41633.320	41633.320	3103333.33	3103333.33	Pass	Pass	0.00
Selenastrum capricornutum	Growth	96 hours	34641.016	185202.592	3280000.00	4860000.00	Pass	Pass	-48.17
Selenastrum capricornutum	Growth	96 hours	34641.016	10969.655	3280000.00	368333.33	Fail	Fail	88.77
Selenastrum capricornutum	Growth	96 hours	34641.016	136137.186	3280000.00	4436666.67	Pass	Pass	-35.26

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Selenastrum capricornutum	Growth	96 hours	34641.016	121655.251	3280000.00	1690000.00	Fail	Fail	48.48
Selenastrum capricornutum	Growth	96 hours	41633.320	560029.761	3116666.67	5123333.33	Pass	Pass	-64.39
Selenastrum capricornutum	Growth	96 hours	41633.320	889175.648	3116666.67	5323333.33	Pass	Pass	-70.80
Selenastrum capricornutum	Growth	96 hours	51961.524	30550.505	2960000.00	1436666.67	Fail	Fail	51.46
Selenastrum capricornutum	Growth	96 hours	51961.524	23094.011	2960000.00	3393333.33	Pass	Pass	-14.64
Selenastrum capricornutum	Growth	96 hours	51961.524	97125.349	2960000.00	4156666.67	Pass	Pass	-40.43
Selenastrum capricornutum	Growth	96 hours	51961.524	81445.278	2960000.00	4463333.33	Pass	Pass	-50.79
Selenastrum capricornutum	Growth	96 hours	51961.524	45092.498	2960000.00	4586666.67	Pass	Pass	-54.95
Selenastrum capricornutum	Growth	96 hours	51961.524	23094.011	2960000.00	2283333.33	Pass	Fail	22.86
Selenastrum capricornutum	Growth	96 hours	72111.026	433128.157	1730000.00	4520000.00	Pass	Pass	-161.27
Selenastrum capricornutum	Growth	96 hours	30550.505	11547.005	1903333.33	1716666.67	Pass	Fail	9.81
Selenastrum capricornutum	Growth	96 hours	30550.505	41633.320	1903333.33	1676666.67	Pass	Fail	11.91
Selenastrum capricornutum	Growth	96 hours	23094.011	34641.016	1836666.67	1730000.00	Pass	Fail	5.81
Selenastrum capricornutum	Growth	96 hours	23094.011	349332.697	1836666.67	3606666.67	Pass	Pass	-96.37
Selenastrum capricornutum	Growth	96 hours	47258.156	70945.989	2003333.33	1636666.67	Pass	Fail	18.30
Selenastrum capricornutum	Growth	96 hours	72111.026	110151.411	2730000.00	3806666.67	Pass	Pass	-39.44
Selenastrum capricornutum	Growth	96 hours	72111.026	15275.252	2730000.00	2923333.33	Pass	Pass	-7.08
Selenastrum capricornutum	Growth	96 hours	72111.026	121655.251	2730000.00	3260000.00	Pass	Pass	-19.41
Selenastrum capricornutum	Growth	96 hours	72111.026	155884.573	2730000.00	4330000.00	Pass	Pass	-58.61
Selenastrum capricornutum	Growth	96 hours	60000.000	249866.631	2010000.00	4496666.67	Pass	Pass	-123.71
Selenastrum capricornutum	Growth	96 hours	60000.000	37859.389	2010000.00	1506666.67	Fail	Fail	25.04
Selenastrum capricornutum	Growth	96 hours	26457.513	498029.450	2080000.00	4236666.67	Pass	Pass	-103.69
Selenastrum capricornutum	Growth	96 hours	26457.513	762692.599	2080000.00	4220000.00	Pass	Pass	-102.88
Selenastrum capricornutum	Growth	96 hours	30550.505	45092.498	2036666.67	1273333.33	Fail	Fail	37.48
Selenastrum capricornutum	Growth	96 hours	30550.505	96090.235	2036666.67	3476666.67	Pass	Pass	-70.70
Selenastrum capricornutum	Growth	96 hours	10000.000	166232.769	2030000.00	5346666.67	Pass	Pass	-163.38
Selenastrum capricornutum	Growth	96 hours	10000.000	30550.505	2030000.00	4233333.33	Pass	Pass	-108.54
Selenastrum capricornutum	Growth	96 hours	10000.000	45825.757	2030000.00	3490000.00	Pass	Pass	-71.92
Selenastrum capricornutum	Growth	96 hours	10000.000	660025.252	2030000.00	6503333.33	Pass	Pass	-220.36
Ceriodaphnia dubia	Reproduction	6-8 day	4.780	3.718	21.80	20.60	Pass	Pass	5.50

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Ceriodaphnia dubia	Reproduction	6-8 day	4.780	2.675	21.80	21.60	Pass	Pass	0.92
Ceriodaphnia dubia	Reproduction	6-8 day	4.780	2.550	21.80	19.67	Pass	Pass	9.79
Pimephales promelas	Survival	7 day	5.000	55.076	97.50	63.33	Fail	Pass	35.04
Pimephales promelas	Survival	7 day	5.000	5.774	97.50	93.33	Pass	Pass	4.27
Pimephales promelas	Survival	7 day	5.000	30.551	97.50	66.67	Fail	Pass	31.62
Pimephales promelas	Biomass	7 day	0.030	0.353	0.59	0.41	Fail	Pass	30.48
Pimephales promelas	Biomass	7 day	0.030	0.049	0.59	0.56	Pass	Pass	4.84
Pimephales promelas	Biomass	7 day	0.030	0.181	0.59	0.38	Fail	Pass	35.61
Ceriodaphnia dubia	Reproduction	6-8 day	1.333	3.561	20.00	25.70	Pass	Pass	-28.50
Ceriodaphnia dubia	Reproduction	6-8 day	1.333	4.715	20.00	25.70	Pass	Pass	-28.50
Ceriodaphnia dubia	Reproduction	6-8 day	1.333	4.040	20.00	24.90	Pass	Pass	-24.50
Pimephales promelas	Survival	7 day	0.000	20.817	100.00	33.33	Fail	Fail	66.67
Pimephales promelas	Survival	7 day	0.000	17.321	100.00	90.00	Pass	Pass	10.00
Pimephales promelas	Survival	7 day	0.000	11.547	100.00	23.33	Fail	Pass	76.67
Pimephales promelas	Survival	7 day	0.000	10.000	100.00	90.00	Pass	Pass	10.00
Pimephales promelas	Biomass	7 day	0.046	0.112	0.62	0.14	Fail	Fail	77.87
Pimephales promelas	Biomass	7 day	0.046	0.055	0.62	0.50	Pass	Fail	18.49
Pimephales promelas	Biomass	7 day	0.046	0.071	0.62	0.11	Fail	Fail	82.73
Pimephales promelas	Biomass	7 day	0.046	0.085	0.62	0.46	Fail	Fail	24.97
Ceriodaphnia dubia	Reproduction	6-8 day	7.072	2.944	17.30	27.00	Pass	Pass	-56.07
Ceriodaphnia dubia	Reproduction	6-8 day	7.072	2.470	17.30	22.90	Pass	Pass	-32.37
Ceriodaphnia dubia	Reproduction	6-8 day	7.072	5.578	17.30	24.00	Pass	Pass	-38.73
Ceriodaphnia dubia	Reproduction	6-8 day	7.072	3.093	17.30	22.30	Pass	Pass	-28.90
Pimephales promelas	Survival	7 day	0.000	10.000	100.00	90.00	Pass	Pass	10.00
Pimephales promelas	Survival	7 day	0.000	11.547	100.00	86.67	Fail	Pass	13.33
Pimephales promelas	Survival	7 day	0.000	15.275	100.00	83.33	Fail	Pass	16.67
Pimephales promelas	Survival	7 day	0.000	6.409	100.00	96.30	Pass	Pass	3.70
Pimephales promelas	Biomass	7 day	0.067	0.029	0.68	0.58	Pass	Pass	14.57
Pimephales promelas	Biomass	7 day	0.067	0.076	0.68	0.58	Pass	Pass	14.57
Pimephales promelas	Biomass	7 day	0.067	0.131	0.68	0.56	Fail	Pass	16.54

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Biomass	7 day	0.067	0.046	0.68	0.63	Pass	Pass	7.16
Ceriodaphnia dubia	Reproduction	6-8 day	4.686	3.950	25.20	31.40	Pass	Pass	-24.60
Ceriodaphnia dubia	Reproduction	6-8 day	4.686	3.929	25.20	25.90	Pass	Pass	-2.78
Ceriodaphnia dubia	Reproduction	6-8 day	4.686	5.138	25.20	28.20	Pass	Pass	-11.90
Ceriodaphnia dubia	Reproduction	6-8 day	4.686	2.830	25.20	25.30	Pass	Pass	-0.40
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	26.458	97.50	70.00	Fail	Pass	28.21
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	10.000	97.50	90.00	Pass	Pass	7.69
Pimephales promelas	Biomass	7 day	0.024	0.069	0.59	0.53	Pass	Pass	9.40
Pimephales promelas	Biomass	7 day	0.024	0.213	0.59	0.46	Fail	Pass	21.37
Pimephales promelas	Biomass	7 day	0.024	0.070	0.59	0.55	Pass	Pass	6.55
Pimephales promelas	Biomass	7 day	0.024	0.070	0.59	0.47	Fail	Fail	19.66
Ceriodaphnia dubia	Reproduction	6-8 day	4.677	6.616	21.10	33.56	Pass	Pass	-59.03
Ceriodaphnia dubia	Reproduction	6-8 day	4.677	5.207	21.10	38.00	Pass	Pass	-80.09
Ceriodaphnia dubia	Reproduction	6-8 day	4.677	5.174	21.10	33.90	Pass	Pass	-60.66
Ceriodaphnia dubia	Reproduction	6-8 day	4.677	3.993	21.10	38.22	Pass	Pass	-81.15
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	93.33	Pass	Pass	6.67
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	17.321	100.00	90.00	Pass	Pass	10.00
Pimephales promelas	Survival	7 day	0.000	6.116	100.00	92.97	Pass	Pass	7.03
Pimephales promelas	Biomass	7 day	0.049	0.075	0.70	0.65	Pass	Pass	7.95
Pimephales promelas	Biomass	7 day	0.049	0.152	0.70	0.60	Fail	Pass	15.07
Pimephales promelas	Biomass	7 day	0.049	0.147	0.70	0.53	Fail	Fail	24.56
Pimephales promelas	Biomass	7 day	0.049	0.074	0.70	0.65	Pass	Pass	7.00
Ceriodaphnia dubia	Reproduction	6-8 day	4.433	5.420	17.10	19.40	Pass	Pass	-13.45
Ceriodaphnia dubia	Reproduction	6-8 day	4.433	3.841	17.10	26.33	Pass	Pass	-54.00
Ceriodaphnia dubia	Reproduction	6-8 day	4.433	4.766	17.10	23.60	Pass	Pass	-38.01
Ceriodaphnia dubia	Reproduction	6-8 day	4.433	2.781	17.10	20.20	Pass	Pass	-18.13
Pimephales promelas	Survival	7 day	0.000	6.116	100.00	92.97	Pass	Pass	7.03

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	3.386	100.00	86.93	Pass	Fail	13.07
Pimephales promelas	Survival	7 day	0.000	6.116	100.00	92.97	Pass	Pass	7.03
Ceriodaphnia dubia	Reproduction	6-8 day	6.008	4.403	20.90	23.50	Pass	Pass	-12.44
Ceriodaphnia dubia	Reproduction	6-8 day	6.008	10.688	20.90	24.70	Pass	Pass	-18.18
Ceriodaphnia dubia	Reproduction	6-8 day	6.008	4.720	20.90	24.50	Pass	Pass	-17.22
Ceriodaphnia dubia	Reproduction	6-8 day	6.008	11.891	20.90	25.50	Pass	Pass	-22.01
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	5.774	97.50	96.67	Pass	Pass	0.85
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Selenastrum capricornutum	Growth	96 hours	75498.344	123827.837	1775000.00	2730000.00	Pass	Pass	-53.80
Selenastrum capricornutum	Growth	96 hours	75498.344	65000.000	1775000.00	1437500.00	Pass	Fail	19.01
Ceriodaphnia dubia	Reproduction	6-8 day	2.066	6.550	18.40	16.70	Pass	Pass	9.24
Ceriodaphnia dubia	Reproduction	6-8 day	2.066	2.584	18.40	18.30	Pass	Pass	0.54
Pimephales promelas	Survival	7 day	0.000	12.583	100.00	87.50	Fail	Pass	12.50
Pimephales promelas	Survival	7 day	0.000	8.165	100.00	90.00	Pass	Pass	10.00
Pimephales promelas	Survival	7 day	0.000	4.719	100.00	92.95	Pass	Pass	7.05
Pimephales promelas	Survival	7 day	0.000	15.681	100.00	86.13	Fail	Pass	13.88
Pimephales promelas	Survival	7 day	0.000	4.719	100.00	92.95	Pass	Pass	7.05
Selenastrum capricornutum	Growth	96 hours	58878.406	354494.946	1790000.00	3690000.00	Pass	Pass	-106.15
Selenastrum capricornutum	Growth	96 hours	58878.406	274757.469	1790000.00	3467500.00	Pass	Pass	-93.72
Pimephales promelas	Survival	7 day	5.000	11.547	97.50	60.00	Fail	Fail	38.46
Pimephales promelas	Survival	7 day	5.000	9.085	97.50	89.45	Pass	Pass	8.26
Pimephales promelas	Survival	7 day	9.100	8.165	95.45	90.00	Pass	Pass	5.71
Pimephales promelas	Survival	7 day	9.100	8.165	95.45	90.00	Pass	Pass	5.71
Selenastrum capricornutum	Growth	96 hours	44347.116	41228.510	1835000.00	60350.00	Fail	Fail	96.71
Selenastrum capricornutum	Growth	96 hours	44347.116	42031.734	1835000.00	1425000.00	Pass	Fail	22.34
Ceriodaphnia dubia	Reproduction	6-8 day	5.889	5.164	24.70	19.00	Fail	Fail	23.08
Ceriodaphnia dubia	Reproduction	6-8 day	5.889	5.808	24.70	28.20	Pass	Pass	-14.17

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	5.526	17.321	95.23	75.00	Fail	Pass	21.24
Pimephales promelas	Survival	7 day	5.526	17.321	95.23	85.00	Pass	Pass	10.74
Pimephales promelas	Survival	7 day	5.526	11.564	95.23	88.98	Pass	Pass	6.56
Pimephales promelas	Survival	7 day	5.526	13.558	95.23	80.68	Pass	Pass	15.28
Pimephales promelas	Survival	7 day	5.526	6.303	95.23	85.43	Pass	Pass	10.29
Selenastrum capricornutum	Growth	96 hours	51639.778	435765.610	1950000.00	5157500.00	Pass	Pass	-164.49
Selenastrum capricornutum	Growth	96 hours	51639.778	625832.779	1950000.00	5540000.00	Pass	Pass	-184.10
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	33.040	97.50	67.50	Fail	Pass	30.77
Selenastrum capricornutum	Growth	96 hours	20000.000	155349.069	1870000.00	2666666.67	Pass	Pass	-42.60
Selenastrum capricornutum	Growth	96 hours	20000.000	11547.005	1870000.00	2826666.67	Pass	Pass	-51.16
Selenastrum capricornutum	Growth	96 hours	20000.000	41633.320	1870000.00	3373333.33	Pass	Pass	-80.39
Ceriodaphnia dubia	Reproduction	6-8 day	3.900	5.934	15.90	23.10	Pass	Pass	-45.28
Ceriodaphnia dubia	Reproduction	6-8 day	3.900	6.222	15.90	25.40	Pass	Pass	-59.75
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	87.50	Pass	Pass	10.26
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	92.50	Pass	Pass	5.13
Pimephales promelas	Survival	7 day	5.000	10.000	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Survival	7 day	5.000	9.574	97.50	92.50	Pass	Pass	5.13
Selenastrum capricornutum	Growth	96 hours	46188.022	102632.029	1923333.33	5526666.67	Pass	Pass	-187.35
Selenastrum capricornutum	Growth	96 hours	46188.022	276103.845	1923333.33	5043333.33	Pass	Pass	-162.22
Pimephales promelas	Survival	7 day	5.000	18.930	97.50	87.50	Pass	Pass	10.26
Pimephales promelas	Survival	7 day	5.000	12.910	97.50	85.00	Pass	Pass	12.82
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Selenastrum capricornutum	Growth	96 hours	30550.505	10969.655	1756666.67	387333.33	Fail	Fail	77.95
Selenastrum capricornutum	Growth	96 hours	30550.505	37859.389	1756666.67	1426666.67	Pass	Fail	18.79
Selenastrum capricornutum	Growth	96 hours	30550.505	72111.026	1756666.67	1690000.00	Pass	Pass	3.80
Selenastrum capricornutum	Growth	96 hours	30550.505	30550.505	1756666.67	2203333.33	Pass	Pass	-25.43

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	3.190	3.093	28.80	21.30	Fail	Fail	26.04
Ceriodaphnia dubia	Reproduction	6-8 day	3.190	3.665	28.80	22.90	Pass	Fail	20.49
Pimephales promelas	Survival	7 day	5.000	12.522	97.50	87.23	Pass	Pass	10.54
Pimephales promelas	Survival	7 day	5.000	22.174	97.50	72.50	Fail	Pass	25.64
Pimephales promelas	Survival	7 day	5.000	5.774	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Survival	7 day	5.000	11.052	97.50	90.45	Pass	Pass	7.23
Pimephales promelas	Survival	7 day	5.000	6.100	97.50	86.95	Pass	Pass	10.82
Selenastrum capricornutum	Growth	96 hours	41633.320	165630.110	1783333.33	3933333.33	Pass	Pass	-120.56
Selenastrum capricornutum	Growth	96 hours	41633.320	622173.609	1783333.33	4950000.00	Pass	Pass	-177.57
Pimephales promelas	Survival	7 day	0.000	22.200	100.00	88.90	Pass	Pass	11.10
Pimephales promelas	Survival	7 day	0.000	12.910	100.00	65.00	Fail	Fail	35.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	24.457	100.00	56.13	Fail	Fail	43.88
Selenastrum capricornutum	Growth	96 hours	30550.505	36055.513	1876666.67	1410000.00	Fail	Fail	24.87
Selenastrum capricornutum	Growth	96 hours	30550.505	90184.995	1876666.67	1636666.67	Pass	Fail	12.79
Selenastrum capricornutum	Growth	96 hours	30550.505	91651.514	1876666.67	1710000.00	Pass	Fail	8.88
Selenastrum capricornutum	Growth	96 hours	30550.505	23094.011	1876666.67	2613333.33	Pass	Pass	-39.25
Ceriodaphnia dubia	Reproduction	6-8 day	1.936	4.999	18.33	13.10	Fail	Fail	28.55
Ceriodaphnia dubia	Reproduction	6-8 day	1.936	5.840	18.33	14.90	Fail	Pass	18.73
Pimephales promelas	Survival	7 day	5.000	14.142	97.50	90.00	Pass	Pass	7.69
Pimephales promelas	Survival	7 day	5.000	16.925	97.50	82.23	Fail	Pass	15.67
Pimephales promelas	Survival	7 day	5.000	19.149	97.50	85.00	Pass	Pass	12.82
Pimephales promelas	Survival	7 day	5.000	5.774	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Survival	7 day	5.000	5.550	97.50	97.23	Pass	Pass	0.28
Selenastrum capricornutum	Growth	96 hours	179257.729	45092.498	1856666.67	3713333.33	Pass	Pass	-100.00
Selenastrum capricornutum	Growth	96 hours	179257.729	136137.186	1856666.67	4606666.67	Pass	Pass	-148.11
Pimephales promelas	Survival	7 day	0.000	33.040	100.00	62.50	Fail	Pass	37.50
Pimephales promelas	Survival	7 day	0.000	21.602	100.00	50.00	Fail	Fail	50.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	70237.692	61101.009	1803333.33	2316666.67	Pass	Pass	-28.47
Selenastrum capricornutum	Growth	96 hours	70237.692	20000.000	1803333.33	1280000.00	Fail	Fail	29.02
Selenastrum capricornutum	Growth	96 hours	70237.692	30550.505	1803333.33	2043333.33	Pass	Pass	-13.31
Selenastrum capricornutum	Growth	96 hours	70237.692	11547.005	1803333.33	1226666.67	Fail	Fail	31.98
Ceriodaphnia dubia	Reproduction	6-8 day	4.789	6.240	19.40	14.60	Fail	Fail	24.74
Ceriodaphnia dubia	Reproduction	6-8 day	4.789	1.900	19.40	9.50	Fail	Fail	51.03
Pimephales promelas	Survival	7 day	0.000	11.547	100.00	70.00	Fail	Fail	30.00
Pimephales promelas	Survival	7 day	0.000	23.805	100.00	85.00	Fail	Pass	15.00
Pimephales promelas	Survival	7 day	0.000	28.723	100.00	67.50	Fail	Pass	32.50
Pimephales promelas	Survival	7 day	0.000	26.300	100.00	67.50	Fail	Fail	32.50
Pimephales promelas	Survival	7 day	0.000	35.940	100.00	72.50	Fail	Pass	27.50
Selenastrum capricornutum	Growth	96 hours	40000.000	11547.005	1630000.00	2323333.33	Pass	Pass	-42.54
Selenastrum capricornutum	Growth	96 hours	40000.000	35118.846	1630000.00	3533333.33	Pass	Pass	-116.77
Pimephales promelas	Survival	7 day	15.000	18.257	92.50	50.00	Fail	Fail	45.95
Pimephales promelas	Survival	7 day	15.000	12.910	92.50	85.00	Pass	Pass	8.11
Selenastrum capricornutum	Growth	96 hours	34641.016	52915.026	2170000.00	3380000.00	Pass	Pass	-55.76
Selenastrum capricornutum	Growth	96 hours	34641.016	70000.000	2170000.00	1390000.00	Fail	Fail	35.94
Selenastrum capricornutum	Growth	96 hours	34641.016	113724.814	2170000.00	1623333.33	Fail	Fail	25.19
Selenastrum capricornutum	Growth	96 hours	34641.016	102632.029	2170000.00	2553333.33	Pass	Pass	-17.67
Selenastrum capricornutum	Growth	96 hours	34641.016	115902.258	2170000.00	3816666.67	Pass	Pass	-75.88
Ceriodaphnia dubia	Reproduction	6-8 day	3.472	4.945	20.50	14.70	Fail	Fail	28.29
Ceriodaphnia dubia	Reproduction	6-8 day	3.472	4.296	20.50	16.70	Fail	Fail	18.54
Pimephales promelas	Survival	7 day	0.000	20.616	100.00	82.50	Fail	Pass	17.50
Pimephales promelas	Survival	7 day	0.000	11.547	100.00	80.00	Fail	Fail	20.00
Pimephales promelas	Survival	7 day	0.000	9.574	100.00	62.50	Fail	Fail	37.50
Pimephales promelas	Survival	7 day	0.000	15.000	100.00	77.50	Fail	Fail	22.50
Pimephales promelas	Survival	7 day	0.000	9.574	100.00	87.50	Fail	Pass	12.50
Selenastrum capricornutum	Growth	96 hours	61101.009	192873.015	1936666.67	2580000.00	Pass	Pass	-33.22
Selenastrum capricornutum	Growth	96 hours	61101.009	30550.505	1936666.67	2626666.67	Pass	Pass	-35.63
Pimephales promelas	Survival	7 day	18.930	12.910	87.50	85.00	Pass	Pass	2.86

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	18.930	27.538	87.50	67.50	Fail	Pass	22.86
Pimephales promelas	Survival	7 day	4.550	12.910	97.73	75.00	Fail	Fail	23.25
Pimephales promelas	Survival	7 day	4.550	9.574	97.73	77.50	Fail	Fail	20.70
Selenastrum capricornutum	Growth	96 hours	40000.000	106702.077	1730000.00	988666.67	Fail	Fail	42.85
Selenastrum capricornutum	Growth	96 hours	40000.000	41633.320	1730000.00	1213333.33	Fail	Fail	29.87
Selenastrum capricornutum	Growth	96 hours	40000.000	23094.011	1730000.00	1503333.33	Pass	Fail	13.10
Selenastrum capricornutum	Growth	96 hours	40000.000	77674.535	1730000.00	2843333.33	Pass	Pass	-64.35
Selenastrum capricornutum	Growth	96 hours	40000.000	168621.865	1730000.00	3453333.33	Pass	Pass	-99.61
Ceriodaphnia dubia	Reproduction	6-8 day	2.644	4.213	20.90	22.67	Pass	Pass	-8.45
Ceriodaphnia dubia	Reproduction	6-8 day	2.644	2.908	20.90	24.70	Pass	Pass	-18.18
Selenastrum capricornutum	Growth	96 hours	20000.000	30550.505	1910000.00	2466666.67	Pass	Pass	-29.14
Selenastrum capricornutum	Growth	96 hours	20000.000	20000.000	1910000.00	3280000.00	Pass	Pass	-71.73
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	92.50	Pass	Pass	5.13
Pimephales promelas	Survival	7 day	5.000	22.603	97.50	76.68	Fail	Pass	21.36
Selenastrum capricornutum	Growth	96 hours	72111.026	266895.735	1890000.00	4123333.33	Pass	Pass	-118.17
Selenastrum capricornutum	Growth	96 hours	72111.026	57735.027	1890000.00	1253333.33	Fail	Fail	33.69
Selenastrum capricornutum	Growth	96 hours	72111.026	40000.000	1890000.00	1570000.00	Pass	Fail	16.93
Ceriodaphnia dubia	Reproduction	6-8 day	3.178	2.915	22.10	28.50	Pass	Pass	-28.96
Ceriodaphnia dubia	Reproduction	6-8 day	3.178	3.919	22.10	30.25	Pass	Pass	-36.88
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	10.000	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	9.574	100.00	87.50	Fail	Pass	12.50
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Selenastrum capricornutum	Growth	96 hours	30550.505	351567.917	1716666.67	3520000.00	Pass	Pass	-105.05
Selenastrum capricornutum	Growth	96 hours	30550.505	172143.351	1716666.67	3573333.33	Pass	Pass	-108.16
Selenastrum capricornutum	Growth	96 hours	57735.027	60000.000	1783333.33	2270000.00	Pass	Pass	-27.29
Selenastrum capricornutum	Growth	96 hours	57735.027	25166.115	1783333.33	1383333.33	Pass	Fail	22.43
Ceriodaphnia dubia	Reproduction	6-8 day	5.563	4.624	21.50	30.60	Pass	Pass	-42.33
Ceriodaphnia dubia	Reproduction	6-8 day	5.563	1.897	21.50	29.40	Pass	Pass	-36.74

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	30550.505	250066.658	1763333.33	3763333.33	Pass	Pass	-113.42
Selenastrum capricornutum	Growth	96 hours	30550.505	457857.329	1763333.33	3786666.67	Pass	Pass	-114.74
Pimephales promelas	Survival	7 day	0.000	17.078	100.00	82.50	Fail	Pass	17.50
Pimephales promelas	Survival	7 day	0.000	11.547	100.00	90.00	Pass	Pass	10.00
Pimephales promelas	Survival	7 day	0.000	21.068	100.00	86.40	Fail	Pass	13.60
Pimephales promelas	Survival	7 day	0.000	8.183	100.00	89.73	Pass	Pass	10.28
Selenastrum capricornutum	Growth	96 hours	41633.320	336501.610	1736666.67	4763333.33	Pass	Pass	-174.28
Selenastrum capricornutum	Growth	96 hours	41633.320	0.000	1736666.67	1340000.00	Pass	Fail	22.84
Ceriodaphnia dubia	Reproduction	6-8 day	2.726	5.607	19.90	11.90	Fail	Fail	40.20
Ceriodaphnia dubia	Reproduction	6-8 day	2.726	4.326	19.90	13.60	Fail	Fail	31.66
Pimephales promelas	Survival	7 day	5.000	21.933	97.50	81.95	Fail	Pass	15.95
Pimephales promelas	Survival	7 day	5.000	6.108	97.50	94.73	Pass	Pass	2.85
Pimephales promelas	Survival	7 day	5.000	12.910	97.50	85.00	Pass	Pass	12.82
Pimephales promelas	Survival	7 day	5.000	9.574	97.50	92.50	Pass	Pass	5.13
Pimephales promelas	Survival	7 day	5.000	20.616	97.50	82.50	Fail	Pass	15.38
Selenastrum capricornutum	Growth	96 hours	11547.005	55677.644	1723333.33	3980000.00	Pass	Pass	-130.95
Selenastrum capricornutum	Growth	96 hours	11547.005	337243.730	1723333.33	4353333.33	Pass	Pass	-152.61
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	14.153	100.00	89.73	Pass	Pass	10.28
Pimephales promelas	Survival	7 day	0.000	26.300	100.00	77.50	Fail	Pass	22.50
Selenastrum capricornutum	Growth	96 hours	30550.505	30550.505	1903333.33	2493333.33	Pass	Pass	-31.00
Selenastrum capricornutum	Growth	96 hours	30550.505	11547.005	1903333.33	1173333.33	Fail	Fail	38.35
Ceriodaphnia dubia	Reproduction	6-8 day	2.150	1.647	16.80	9.40	Fail	Fail	44.05
Ceriodaphnia dubia	Reproduction	6-8 day	2.150	3.836	16.80	16.60	Pass	Pass	1.19
Pimephales promelas	Survival	7 day	5.000	11.547	97.50	90.00	Pass	Pass	7.69
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	11.088	97.50	80.90	Fail	Pass	17.03
Pimephales promelas	Survival	7 day	5.000	5.209	97.50	92.23	Pass	Pass	5.41

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	20000.000	190350.554	1750000.00	3696666.67	Pass	Pass	-111.24
Selenastrum capricornutum	Growth	96 hours	20000.000	284312.035	1750000.00	4006666.67	Pass	Pass	-128.95
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	5.550	97.50	97.23	Pass	Pass	0.28
Pimephales promelas	Survival	7 day	5.000	41.932	97.50	72.50	Fail	Pass	25.64
Pimephales promelas	Survival	7 day	5.000	26.300	97.50	47.50	Fail	Fail	51.28
Selenastrum capricornutum	Growth	96 hours	11547.005	100166.528	1576666.67	3876666.67	Pass	Pass	-145.88
Selenastrum capricornutum	Growth	96 hours	11547.005	30550.505	1576666.67	1353333.33	Pass	Fail	14.16
Ceriodaphnia dubia	Reproduction	6-8 day	4.322	3.882	24.30	19.80	Pass	Fail	18.52
Ceriodaphnia dubia	Reproduction	6-8 day	4.322	5.681	24.30	21.50	Pass	Pass	11.52
Pimephales promelas	Survival	7 day	5.000	25.000	97.50	67.50	Fail	Pass	30.77
Pimephales promelas	Survival	7 day	5.000	40.000	97.50	80.00	Fail	Pass	17.95
Pimephales promelas	Survival	7 day	5.000	26.300	97.50	77.50	Fail	Pass	20.51
Pimephales promelas	Survival	7 day	5.000	8.165	97.50	90.00	Pass	Pass	7.69
Pimephales promelas	Survival	7 day	5.000	10.690	97.50	57.23	Fail	Fail	41.31
Selenastrum capricornutum	Growth	96 hours	91651.514	423949.683	1890000.00	4416666.67	Pass	Pass	-133.69
Selenastrum capricornutum	Growth	96 hours	91651.514	298719.489	1890000.00	5156666.67	Pass	Pass	-172.84
Pimephales promelas	Survival	7 day	4.550	49.244	97.73	42.50	Fail	Fail	56.51
Pimephales promelas	Survival	7 day	4.550	39.476	97.73	32.50	Fail	Fail	66.74
Pimephales promelas	Survival	7 day	4.550	22.343	97.73	80.95	Fail	Pass	17.17
Pimephales promelas	Survival	7 day	4.550	5.000	97.73	97.50	Pass	Pass	0.23
Ceriodaphnia dubia	Reproduction	6-8 day	6.897	9.735	22.30	16.90	Fail	Pass	24.22
Ceriodaphnia dubia	Reproduction	6-8 day	6.897	8.195	22.30	18.60	Fail	Pass	16.59
Ceriodaphnia dubia	Reproduction	6-8 day	6.897	7.704	22.30	18.30	Fail	Pass	17.94
Ceriodaphnia dubia	Reproduction	6-8 day	6.897	6.154	22.30	19.10	Pass	Pass	14.35
Ceriodaphnia dubia	Reproduction	6-8 day	9.004	6.533	20.80	30.70	Pass	Pass	-47.60
Pimephales promelas	Survival	7 day	5.000	14.142	97.50	90.00	Pass	Pass	7.69
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	9.830	97.50	84.73	Fail	Fail	13.10
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Selenastrum capricornutum	Growth	96 hours	41633.320	52915.026	1996666.67	2330000.00	Pass	Pass	-16.69
Selenastrum capricornutum	Growth	96 hours	41633.320	41633.320	1996666.67	3063333.33	Pass	Pass	-53.42
Selenastrum capricornutum	Growth	96 hours	41633.320	61101.009	1996666.67	2316666.67	Pass	Pass	-16.03
Selenastrum capricornutum	Growth	96 hours	41633.320	20000.000	1996666.67	2680000.00	Pass	Pass	-34.22
Selenastrum capricornutum	Growth	96 hours	41633.320	40000.000	1996666.67	2520000.00	Pass	Pass	-26.21
Ceriodaphnia dubia	Reproduction	6-8 day	2.449	5.104	16.00	14.50	Pass	Pass	9.38
Ceriodaphnia dubia	Reproduction	6-8 day	2.449	5.379	16.00	19.60	Pass	Pass	-22.50
Ceriodaphnia dubia	Reproduction	6-8 day	2.449	5.138	16.00	14.20	Pass	Pass	11.25
Ceriodaphnia dubia	Reproduction	6-8 day	2.449	3.020	16.00	15.70	Pass	Pass	1.88
Ceriodaphnia dubia	Reproduction	6-8 day	4.290	6.569	14.80	18.60	Pass	Pass	-25.68
Pimephales promelas	Survival	7 day	0.000	20.616	100.00	57.50	Fail	Fail	42.50
Pimephales promelas	Survival	7 day	0.000	28.284	100.00	60.00	Fail	Pass	40.00
Pimephales promelas	Survival	7 day	0.000	11.201	100.00	75.10	Fail	Fail	24.90
Pimephales promelas	Survival	7 day	0.000	9.506	100.00	92.73	Pass	Pass	7.28
Pimephales promelas	Survival	7 day	0.000	12.803	100.00	77.18	Fail	Fail	22.83
Selenastrum capricornutum	Growth	96 hours	52915.026	51961.524	1830000.00	3540000.00	Pass	Pass	-93.44
Selenastrum capricornutum	Growth	96 hours	52915.026	65574.385	1830000.00	4250000.00	Pass	Pass	-132.24
Selenastrum capricornutum	Growth	96 hours	52915.026	52915.026	1830000.00	2860000.00	Pass	Pass	-56.28
Selenastrum capricornutum	Growth	96 hours	52915.026	105356.538	1830000.00	3850000.00	Pass	Pass	-110.38
Ceriodaphnia dubia	Reproduction	6-8 day	4.138	2.547	24.70	23.40	Pass	Pass	5.26
Ceriodaphnia dubia	Reproduction	6-8 day	4.138	3.302	24.70	27.70	Pass	Pass	-12.15
Ceriodaphnia dubia	Reproduction	6-8 day	4.138	2.406	24.70	24.70	Pass	Pass	0.00
Ceriodaphnia dubia	Reproduction	6-8 day	4.138	3.665	24.70	25.10	Pass	Pass	-1.62
Ceriodaphnia dubia	Reproduction	6-8 day	3.542	5.034	23.10	24.70	Pass	Pass	-6.93
Pimephales promelas	Survival	7 day	5.000	17.463	97.50	73.98	Fail	Pass	24.13
Pimephales promelas	Survival	7 day	5.000	10.756	97.50	77.13	Fail	Fail	20.90
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	87.50	Pass	Pass	10.26
Pimephales promelas	Survival	7 day	5.000	10.546	97.50	91.95	Pass	Pass	5.69
Pimephales promelas	Survival	7 day	5.000	18.881	97.50	81.13	Fail	Pass	16.79

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	51961.524	30550.505	2450000.00	3386666.67	Pass	Pass	-38.23
Selenastrum capricornutum	Growth	96 hours	51961.524	135030.861	2450000.00	3706666.67	Pass	Pass	-51.29
Selenastrum capricornutum	Growth	96 hours	51961.524	40000.000	2450000.00	3030000.00	Pass	Pass	-23.67
Selenastrum capricornutum	Growth	96 hours	51961.524	175783.958	2450000.00	3560000.00	Pass	Pass	-45.31
Ceriodaphnia dubia	Reproduction	6-8 day	4.191	4.557	29.30	26.10	Pass	Pass	10.92
Ceriodaphnia dubia	Reproduction	6-8 day	4.191	5.095	29.30	28.80	Pass	Pass	1.71
Ceriodaphnia dubia	Reproduction	6-8 day	4.191	5.922	29.30	29.80	Pass	Pass	-1.71
Ceriodaphnia dubia	Reproduction	6-8 day	4.191	9.606	29.30	23.50	Fail	Fail	19.80
Ceriodaphnia dubia	Reproduction	6-8 day	7.732	5.888	24.30	32.00	Pass	Pass	-31.69
Pimephales promelas	Survival	7 day	0.000	11.544	100.00	70.58	Fail	Fail	29.43
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	72.50	Fail	Fail	27.50
Pimephales promelas	Survival	7 day	0.000	11.087	100.00	86.25	Fail	Pass	13.75
Pimephales promelas	Survival	7 day	0.000	4.844	100.00	87.23	Pass	Fail	12.78
Pimephales promelas	Survival	7 day	0.000	9.826	100.00	81.95	Fail	Fail	18.05
Selenastrum capricornutum	Growth	96 hours	34641.016	30550.505	1830000.00	2646666.67	Pass	Pass	-44.63
Selenastrum capricornutum	Growth	96 hours	34641.016	40000.000	1830000.00	2070000.00	Pass	Pass	-13.11
Selenastrum capricornutum	Growth	96 hours	34641.016	41633.320	1830000.00	2296666.67	Pass	Pass	-25.50
Selenastrum capricornutum	Growth	96 hours	34641.016	52915.026	1830000.00	3070000.00	Pass	Pass	-67.76
Selenastrum capricornutum	Growth	96 hours	34641.016	236924.742	1830000.00	3026666.67	Pass	Pass	-65.39
Ceriodaphnia dubia	Reproduction	6-8 day	2.700	5.143	26.20	14.70	Fail	Fail	43.89
Ceriodaphnia dubia	Reproduction	6-8 day	2.700	5.798	26.20	12.11	Fail	Fail	53.77
Ceriodaphnia dubia	Reproduction	6-8 day	2.700	5.673	26.20	16.80	Fail	Fail	35.88
Ceriodaphnia dubia	Reproduction	6-8 day	6.250	2.345	22.20	14.33	Fail	Fail	35.44
Pimephales promelas	Survival	7 day	0.000	40.825	100.00	50.00	Fail	Pass	50.00
Pimephales promelas	Survival	7 day	0.000	22.174	100.00	62.50	Fail	Fail	37.50
Pimephales promelas	Survival	7 day	0.000	33.166	100.00	45.00	Fail	Fail	55.00
Pimephales promelas	Survival	7 day	0.000	31.800	100.00	84.10	Fail	Pass	15.90
Selenastrum capricornutum	Growth	96 hours	11547.005	30550.505	1876666.67	1563333.33	Pass	Fail	16.70
Selenastrum capricornutum	Growth	96 hours	11547.005	36055.513	1876666.67	1420000.00	Fail	Fail	24.33
Selenastrum capricornutum	Growth	96 hours	11547.005	11547.005	1876666.67	1583333.33	Pass	Fail	15.63

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	11547.005	104403.065	1876666.67	1500000.00	Pass	Fail	20.07
Ceriodaphnia dubia	Reproduction	6-8 day	13.720	12.383	23.70	25.70	Pass	Pass	-8.44
Ceriodaphnia dubia	Reproduction	6-8 day	13.720	4.756	23.70	28.80	Pass	Pass	-21.52
Ceriodaphnia dubia	Reproduction	6-8 day	13.720	12.013	23.70	24.10	Pass	Pass	-1.69
Ceriodaphnia dubia	Reproduction	6-8 day	13.720	12.255	23.70	26.20	Pass	Pass	-10.55
Pimephales promelas	Survival	7 day	5.774	43.986	95.00	57.23	Fail	Pass	39.76
Pimephales promelas	Survival	7 day	5.774	18.257	95.00	80.00	Fail	Pass	15.79
Pimephales promelas	Survival	7 day	5.774	22.174	95.00	82.50	Pass	Pass	13.16
Pimephales promelas	Survival	7 day	5.774	36.968	95.00	75.00	Fail	Pass	21.05
Selenastrum capricornutum	Growth	96 hours	52915.026	11547.005	1650000.00	1703333.33	Pass	Pass	-3.23
Selenastrum capricornutum	Growth	96 hours	52915.026	11547.005	1650000.00	1373333.33	Pass	Fail	16.77
Selenastrum capricornutum	Growth	96 hours	52915.026	34641.016	1650000.00	1610000.00	Pass	Pass	2.42
Selenastrum capricornutum	Growth	96 hours	52915.026	41633.320	1650000.00	1756666.67	Pass	Pass	-6.46
Ceriodaphnia dubia	Reproduction	6-8 day	4.999	2.601	27.90	28.10	Pass	Pass	-0.72
Ceriodaphnia dubia	Reproduction	6-8 day	4.999	8.138	27.90	23.70	Pass	Pass	15.05
Ceriodaphnia dubia	Reproduction	6-8 day	4.999	5.110	27.90	25.11	Pass	Pass	10.00
Ceriodaphnia dubia	Reproduction	6-8 day	4.999	2.675	27.90	26.60	Pass	Pass	4.66
Ceriodaphnia dubia	Reproduction	6-8 day	8.772	9.964	23.50	20.20	Fail	Pass	14.04
Pimephales promelas	Survival	7 day	0.000	30.000	100.00	85.00	Pass	Pass	15.00
Pimephales promelas	Survival	7 day	0.000	15.000	100.00	87.50	Pass	Pass	12.50
Pimephales promelas	Survival	7 day	0.000	12.910	100.00	45.00	Fail	Fail	55.00
Pimephales promelas	Survival	7 day	0.000	23.914	100.00	59.45	Fail	Fail	40.55
Pimephales promelas	Survival	7 day	0.000	15.000	100.00	87.50	Pass	Pass	12.50
Selenastrum capricornutum	Growth	96 hours	80829.038	50332.230	1603333.33	3826666.67	Pass	Pass	-138.67
Selenastrum capricornutum	Growth	96 hours	80829.038	95043.850	1603333.33	3993333.33	Pass	Pass	-149.06
Selenastrum capricornutum	Growth	96 hours	80829.038	80829.038	1603333.33	3043333.33	Pass	Pass	-89.81
Selenastrum capricornutum	Growth	96 hours	80829.038	104403.065	1603333.33	4060000.00	Pass	Pass	-153.22
Ceriodaphnia dubia	Reproduction	6-8 day	4.428	4.614	16.50	20.20	Pass	Pass	-22.42
Ceriodaphnia dubia	Reproduction	6-8 day	4.428	4.762	16.50	17.30	Pass	Pass	-4.85
Ceriodaphnia dubia	Reproduction	6-8 day	4.428	6.616	16.50	13.44	Fail	Pass	18.52

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	4.428	6.698	16.50	22.89	Pass	Pass	-38.72
Ceriodaphnia dubia	Reproduction	6-8 day	4.715	2.830	21.70	23.70	Pass	Pass	-9.22
Pimephales promelas	Survival	7 day	0.000	5.550	100.00	97.23	Pass	Pass	2.78
Pimephales promelas	Survival	7 day	0.000	5.526	100.00	95.23	Pass	Pass	4.78
Pimephales promelas	Survival	7 day	0.000	33.665	100.00	80.00	Fail	Pass	20.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Selenastrum capricornutum	Growth	96 hours	50332.230	382143.080	1703333.33	3716666.67	Pass	Pass	-118.20
Selenastrum capricornutum	Growth	96 hours	50332.230	64291.005	1703333.33	3806666.67	Pass	Pass	-123.48
Selenastrum capricornutum	Growth	96 hours	50332.230	50332.230	1703333.33	3393333.33	Pass	Pass	-99.22
Selenastrum capricornutum	Growth	96 hours	50332.230	510130.702	1703333.33	3776666.67	Pass	Pass	-121.72
Selenastrum capricornutum	Growth	96 hours	50332.230	134288.247	1703333.33	3913333.33	Pass	Pass	-129.75
Ceriodaphnia dubia	Reproduction	6-8 day	3.190	3.974	19.80	38.70	Pass	Pass	-95.45
Ceriodaphnia dubia	Reproduction	6-8 day	3.190	5.160	19.80	29.20	Pass	Pass	-47.47
Ceriodaphnia dubia	Reproduction	6-8 day	3.190	4.061	19.80	34.60	Pass	Pass	-74.75
Ceriodaphnia dubia	Reproduction	6-8 day	3.190	5.782	19.80	32.90	Pass	Pass	-66.16
Ceriodaphnia dubia	Reproduction	6-8 day	7.102	5.322	20.00	34.90	Pass	Pass	-74.50
Pimephales promelas	Survival	7 day	0.000	29.439	100.00	70.00	Fail	Pass	30.00
Pimephales promelas	Survival	7 day	0.000	6.108	100.00	94.73	Pass	Pass	5.28
Pimephales promelas	Survival	7 day	0.000	26.503	100.00	73.90	Fail	Pass	26.10
Pimephales promelas	Survival	7 day	0.000	22.603	100.00	76.68	Fail	Pass	23.33
Pimephales promelas	Survival	7 day	0.000	5.526	100.00	95.23	Pass	Pass	4.78
Ceriodaphnia dubia	Reproduction	6-8 day	6.854	5.539	26.88	27.70	Pass	Pass	-3.07
Ceriodaphnia dubia	Reproduction	6-8 day	6.854	3.571	26.88	28.67	Pass	Pass	-6.67
Ceriodaphnia dubia	Reproduction	6-8 day	6.854	4.882	26.88	30.50	Pass	Pass	-13.49
Ceriodaphnia dubia	Reproduction	6-8 day	6.854	6.494	26.88	36.20	Pass	Pass	-34.70
Ceriodaphnia dubia	Reproduction	6-8 day	4.417	6.286	28.20	28.80	Pass	Pass	-2.13
Pimephales promelas	Survival	7 day	6.108	9.673	94.73	86.78	Pass	Pass	8.39
Pimephales promelas	Survival	7 day	6.108	12.128	94.73	76.20	Fail	Pass	19.56
Pimephales promelas	Survival	7 day	6.108	9.080	94.73	89.18	Pass	Pass	5.86
Pimephales promelas	Survival	7 day	6.108	12.500	94.73	93.75	Pass	Pass	1.03

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	6.108	5.543	94.73	91.88	Pass	Pass	3.01
Selenastrum capricornutum	Growth	96 hours	30550.505	70000.000	1716666.67	3310000.00	Pass	Pass	-92.82
Selenastrum capricornutum	Growth	96 hours	30550.505	77674.535	1716666.67	2416666.67	Pass	Pass	-40.78
Selenastrum capricornutum	Growth	96 hours	30550.505	41633.320	1716666.67	3016666.67	Pass	Pass	-75.73
Selenastrum capricornutum	Growth	96 hours	30550.505	97125.349	1716666.67	3586666.67	Pass	Pass	-108.93
Selenastrum capricornutum	Growth	96 hours	30550.505	87177.979	1716666.67	3090000.00	Pass	Pass	-80.00
Ceriodaphnia dubia	Reproduction	6-8 day	1.581	2.675	20.50	26.60	Pass	Pass	-29.76
Ceriodaphnia dubia	Reproduction	6-8 day	1.581	1.703	20.50	26.30	Pass	Pass	-28.29
Ceriodaphnia dubia	Reproduction	6-8 day	1.581	2.234	20.50	24.10	Pass	Pass	-17.56
Ceriodaphnia dubia	Reproduction	6-8 day	1.581	2.983	20.50	24.70	Pass	Pass	-20.49
Ceriodaphnia dubia	Reproduction	6-8 day	2.025	2.011	22.90	28.60	Pass	Pass	-24.89
Pimephales promelas	Survival	7 day	5.888	27.638	94.95	63.60	Fail	Pass	33.02
Pimephales promelas	Survival	7 day	5.888	13.997	94.95	85.00	Pass	Pass	10.48
Pimephales promelas	Survival	7 day	5.888	12.585	94.95	64.18	Fail	Pass	32.41
Pimephales promelas	Survival	7 day	5.888	6.575	94.95	94.38	Pass	Pass	0.61
Pimephales promelas	Survival	7 day	5.888	5.888	94.95	94.95	Pass	Pass	0.00
Selenastrum capricornutum	Growth	96 hours	20000.000	159478.316	2010000.00	5003333.33	Pass	Pass	-148.92
Selenastrum capricornutum	Growth	96 hours	20000.000	11547.005	2010000.00	1736666.67	Pass	Fail	13.60
Selenastrum capricornutum	Growth	96 hours	20000.000	162890.556	2010000.00	4686666.67	Pass	Pass	-133.17
Selenastrum capricornutum	Growth	96 hours	20000.000	880018.939	2010000.00	5473333.33	Pass	Pass	-172.31
Selenastrum capricornutum	Growth	96 hours	20000.000	138924.440	2010000.00	3240000.00	Pass	Pass	-61.19
Ceriodaphnia dubia	Reproduction	6-8 day	7.427	3.293	30.50	35.20	Pass	Pass	-15.41
Ceriodaphnia dubia	Reproduction	6-8 day	7.427	6.547	30.50	32.11	Pass	Pass	-5.28
Ceriodaphnia dubia	Reproduction	6-8 day	7.427	4.551	30.50	36.60	Pass	Pass	-20.00
Ceriodaphnia dubia	Reproduction	6-8 day	7.427	4.012	30.50	33.10	Pass	Pass	-8.52
Ceriodaphnia dubia	Reproduction	6-8 day	3.621	9.624	32.89	32.80	Pass	Pass	0.27
Pimephales promelas	Survival	7 day	5.000	14.506	97.50	75.85	Fail	Fail	22.21
Pimephales promelas	Survival	7 day	5.000	11.774	97.50	85.40	Pass	Pass	12.41
Pimephales promelas	Survival	7 day	5.000	9.574	97.50	82.50	Fail	Fail	15.38
Pimephales promelas	Survival	7 day	5.000	9.080	97.50	89.18	Pass	Pass	8.54

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	5.000	10.000	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Biomass	7 day	0.043	0.113	0.57	0.51	Pass	Pass	11.79
Pimephales promelas	Biomass	7 day	0.043	0.046	0.57	0.52	Pass	Pass	9.61
Pimephales promelas	Biomass	7 day	0.043	0.055	0.57	0.46	Pass	Fail	20.52
Pimephales promelas	Biomass	7 day	0.043	0.067	0.57	0.51	Pass	Pass	11.79
Pimephales promelas	Biomass	7 day	0.043	0.045	0.57	0.57	Pass	Pass	0.44
Selenastrum capricornutum	Growth	96 hours	40000.000	365011.415	1990000.00	5306666.67	Pass	Pass	-166.67
Selenastrum capricornutum	Growth	96 hours	40000.000	52915.026	1990000.00	2520000.00	Pass	Pass	-26.63
Selenastrum capricornutum	Growth	96 hours	40000.000	227229.693	1990000.00	4483333.33	Pass	Pass	-125.29
Selenastrum capricornutum	Growth	96 hours	40000.000	254230.866	1990000.00	4893333.33	Pass	Pass	-145.90
Ceriodaphnia dubia	Reproduction	6-8 day	4.566	6.220	32.20	36.22	Pass	Pass	-12.49
Ceriodaphnia dubia	Reproduction	6-8 day	4.566	2.774	32.20	39.78	Pass	Pass	-23.53
Ceriodaphnia dubia	Reproduction	6-8 day	4.566	4.264	32.20	39.80	Pass	Pass	-23.60
Ceriodaphnia dubia	Reproduction	6-8 day	4.566	3.107	32.20	37.10	Pass	Pass	-15.22
Ceriodaphnia dubia	Reproduction	6-8 day	4.993	7.483	29.60	32.00	Pass	Pass	-8.11
Pimephales promelas	Survival	7 day	0.000	9.574	100.00	87.50	Fail	Pass	12.50
Pimephales promelas	Survival	7 day	0.000	5.550	100.00	97.23	Pass	Pass	2.78
Pimephales promelas	Survival	7 day	0.000	10.530	100.00	76.68	Fail	Fail	23.33
Pimephales promelas	Survival	7 day	0.000	9.299	100.00	82.23	Fail	Fail	17.78
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Biomass	7 day	0.030	0.067	0.61	0.50	Pass	Fail	18.78
Pimephales promelas	Biomass	7 day	0.030	0.080	0.61	0.65	Pass	Pass	-5.71
Pimephales promelas	Biomass	7 day	0.030	0.096	0.61	0.42	Fail	Fail	31.02
Pimephales promelas	Biomass	7 day	0.030	0.049	0.61	0.49	Pass	Fail	20.41
Pimephales promelas	Biomass	7 day	0.030	0.037	0.61	0.69	Pass	Pass	-11.84
Selenastrum capricornutum	Growth	96 hours	30550.505	281602.557	1783333.33	4630000.00	Pass	Pass	-159.63
Selenastrum capricornutum	Growth	96 hours	30550.505	30550.505	1783333.33	1313333.33	Fail	Fail	26.36
Selenastrum capricornutum	Growth	96 hours	30550.505	30550.505	1783333.33	3873333.33	Pass	Pass	-117.20
Selenastrum capricornutum	Growth	96 hours	30550.505	105987.421	1783333.33	4273333.33	Pass	Pass	-139.63
Ceriodaphnia dubia	Reproduction	6-8 day	3.645	3.438	32.20	23.60	Fail	Fail	26.71

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	3.645	9.989	32.20	30.44	Pass	Pass	5.45
Ceriodaphnia dubia	Reproduction	6-8 day	3.645	4.347	32.20	26.70	Pass	Fail	17.08
Ceriodaphnia dubia	Reproduction	6-8 day	3.645	2.312	32.20	24.70	Fail	Fail	23.29
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	14.724	100.00	87.95	Pass	Pass	12.05
Pimephales promelas	Survival	7 day	0.000	23.734	100.00	84.73	Fail	Pass	15.28
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.000	5.550	100.00	97.23	Pass	Pass	2.78
Pimephales promelas	Biomass	7 day	0.026	0.047	0.51	0.54	Pass	Pass	-6.44
Pimephales promelas	Biomass	7 day	0.026	0.095	0.51	0.53	Pass	Pass	-3.96
Pimephales promelas	Biomass	7 day	0.026	0.091	0.51	0.47	Pass	Pass	7.43
Pimephales promelas	Biomass	7 day	0.026	0.083	0.51	0.61	Pass	Pass	-20.30
Pimephales promelas	Biomass	7 day	0.026	0.049	0.51	0.64	Pass	Pass	-26.24
Selenastrum capricornutum	Growth	96 hours	34641.016	70237.692	1550000.00	3853333.33	Pass	Pass	-148.60
Selenastrum capricornutum	Growth	96 hours	34641.016	106926.766	1550000.00	3973333.33	Pass	Pass	-156.34
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	3.814	19.50	32.10	Pass	Pass	-64.62
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	5.968	19.50	35.50	Pass	Pass	-82.05
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	0.000	19.50	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	4.254	19.50	25.10	Pass	Pass	-28.72
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	11.040	19.50	31.10	Pass	Pass	-59.49
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	4.244	19.50	28.70	Pass	Pass	-47.18
Ceriodaphnia dubia	Reproduction	6-8 day	3.866	5.673	19.50	27.20	Pass	Pass	-39.49
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	6.413	27.88	24.63	Pass	Pass	11.66
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	8.352	27.88	14.67	Fail	Fail	47.38
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	0.000	27.88	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	9.207	27.88	23.44	Fail	Pass	15.89
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	0.000	27.88	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	2.588	0.000	27.88	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	1.803	9.189	26.00	19.22	Fail	Fail	26.07
Ceriodaphnia dubia	Reproduction	6-8 day	1.803	2.121	26.00	25.00	Pass	Pass	3.85

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	1.803	1.922	26.00	6.78	Fail	Fail	73.93
Ceriodaphnia dubia	Reproduction	6-8 day	1.803	6.684	26.00	13.70	Fail	Fail	47.31
Ceriodaphnia dubia	Reproduction	6-8 day	1.803	0.000	26.00	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	1.803	7.200	26.00	14.50	Fail	Fail	44.23
Ceriodaphnia dubia	Reproduction	6-8 day	1.803	5.878	26.00	13.63	Fail	Fail	47.60
Ceriodaphnia dubia	Reproduction	6-8 day	1.803	0.000	26.00	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	4.264	4.029	29.80	29.30	Pass	Pass	1.68
Ceriodaphnia dubia	Reproduction	6-8 day	4.264	3.967	29.80	29.20	Pass	Pass	2.01
Ceriodaphnia dubia	Reproduction	6-8 day	4.264	4.158	29.80	28.20	Pass	Pass	5.37
Ceriodaphnia dubia	Reproduction	6-8 day	4.264	3.432	29.80	28.00	Pass	Pass	6.04
Ceriodaphnia dubia	Reproduction	6-8 day	4.264	4.547	29.80	28.30	Pass	Pass	5.03
Ceriodaphnia dubia	Reproduction	6-8 day	3.592	2.741	30.30	18.80	Fail	Fail	37.95
Ceriodaphnia dubia	Reproduction	6-8 day	3.592	2.530	30.30	31.80	Pass	Pass	-4.95
Ceriodaphnia dubia	Reproduction	6-8 day	3.592	9.061	30.30	27.90	Pass	Pass	7.92
Ceriodaphnia dubia	Reproduction	6-8 day	3.592	6.451	30.30	30.50	Pass	Pass	-0.66
Ceriodaphnia dubia	Reproduction	6-8 day	5.270	5.622	30.00	28.50	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	5.000	12.910	97.50	85.00	Pass	Pass	12.82
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	9.574	97.50	92.50	Pass	Pass	5.13
Pimephales promelas	Survival	7 day	5.000	5.774	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	9.574	97.50	87.50	Pass	Pass	10.26
Pimephales promelas	Survival	7 day	5.000	5.774	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Survival	7 day	5.000	5.774	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Survival	7 day	5.000	14.142	97.50	90.00	Pass	Pass	7.69
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	87.50	Pass	Pass	10.26
Pimephales promelas	Biomass	7 day	0.097	0.042	0.68	0.68	Pass	Pass	0.26
Pimephales promelas	Biomass	7 day	0.097	0.101	0.68	0.68	Pass	Pass	-0.22
Pimephales promelas	Biomass	7 day	0.097	0.074	0.68	0.76	Pass	Pass	-11.65
Pimephales promelas	Biomass	7 day	0.097	0.044	0.68	0.71	Pass	Pass	-5.05

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Biomass	7 day	0.097	0.061	0.68	0.73	Pass	Pass	-8.04
Pimephales promelas	Biomass	7 day	0.097	0.079	0.68	0.59	Pass	Pass	12.43
Pimephales promelas	Biomass	7 day	0.097	0.116	0.68	0.59	Pass	Pass	13.57
Pimephales promelas	Biomass	7 day	0.097	0.030	0.68	0.63	Pass	Pass	7.52
Pimephales promelas	Biomass	7 day	0.097	0.058	0.68	0.62	Pass	Pass	8.96
Pimephales promelas	Biomass	7 day	0.097	0.017	0.68	0.67	Pass	Pass	1.55
Selenastrum capricornutum	Growth	96 hours	140464.305	582433.400	7534151.25	11759861.25	Pass	Pass	-56.09
Selenastrum capricornutum	Growth	96 hours	140464.305	70338.164	7534151.25	10168533.75	Pass	Pass	-34.97
Selenastrum capricornutum	Growth	96 hours	140464.305	349651.028	7534151.25	6691683.75	Pass	Fail	11.18
Selenastrum capricornutum	Growth	96 hours	140464.305	349651.028	7534151.25	10275513.75	Pass	Pass	-36.39
Selenastrum capricornutum	Growth	96 hours	140464.305	442439.154	7534151.25	8423422.50	Pass	Pass	-11.80
Selenastrum capricornutum	Growth	96 hours	140464.305	468864.591	7534151.25	6992565.00	Pass	Fail	7.19
Selenastrum capricornutum	Growth	96 hours	140464.305	367358.582	7534151.25	8597265.00	Pass	Pass	-14.11
Selenastrum capricornutum	Growth	96 hours	140464.305	288466.037	7534151.25	10402552.50	Pass	Pass	-38.07
Selenastrum capricornutum	Growth	96 hours	140464.305	1349143.212	7534151.25	8891460.00	Pass	Pass	-18.02
Selenastrum capricornutum	Growth	96 hours	140464.305	243168.780	7534151.25	10068240.00	Pass	Pass	-33.63
Ceriodaphnia dubia	Reproduction	6-8 day	7.319	4.917	18.30	23.80	Pass	Pass	-30.05
Ceriodaphnia dubia	Reproduction	6-8 day	7.319	6.852	18.30	22.50	Pass	Pass	-22.95
Ceriodaphnia dubia	Reproduction	6-8 day	7.319	5.607	18.30	23.90	Pass	Pass	-30.60
Ceriodaphnia dubia	Reproduction	6-8 day	7.838	4.690	22.90	19.67	Pass	Pass	14.12
Ceriodaphnia dubia	Reproduction	6-8 day	7.838	6.567	22.90	23.30	Pass	Pass	-1.75
Ceriodaphnia dubia	Reproduction	6-8 day	7.838	7.752	22.90	24.10	Pass	Pass	-5.24
Ceriodaphnia dubia	Reproduction	6-8 day	7.838	6.052	22.90	25.80	Pass	Pass	-12.66
Ceriodaphnia dubia	Reproduction	6-8 day	7.838	8.858	22.90	23.30	Pass	Pass	-1.75
Ceriodaphnia dubia	Reproduction	6-8 day	7.165	6.750	21.00	26.70	Pass	Pass	-27.14
Ceriodaphnia dubia	Reproduction	6-8 day	7.165	7.752	21.00	29.10	Pass	Pass	-38.57
Ceriodaphnia dubia	Reproduction	6-8 day	7.165	5.446	21.00	29.10	Pass	Pass	-38.57
Ceriodaphnia dubia	Reproduction	6-8 day	7.165	5.908	21.00	25.70	Pass	Pass	-22.38
Ceriodaphnia dubia	Reproduction	6-8 day	7.165	7.336	21.00	25.40	Pass	Pass	-20.95
Pimephales promelas	Survival	7 day	18.930	5.000	87.50	97.50	Pass	Pass	-11.43

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Survival	7 day	18.930	5.774	87.50	95.00	Pass	Pass	-8.57
Pimephales promelas	Survival	7 day	18.930	25.000	87.50	87.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	18.930	9.574	87.50	82.50	Pass	Pass	5.71
Pimephales promelas	Survival	7 day	18.930	11.547	87.50	90.00	Pass	Pass	-2.86
Pimephales promelas	Survival	7 day	18.930	23.805	87.50	85.00	Pass	Pass	2.86
Pimephales promelas	Survival	7 day	18.930	9.574	87.50	82.50	Pass	Pass	5.71
Pimephales promelas	Biomass	7 day	0.108	0.038	0.82	0.82	Pass	Pass	-0.69
Pimephales promelas	Biomass	7 day	0.108	0.068	0.82	0.87	Pass	Pass	-6.35
Pimephales promelas	Biomass	7 day	0.108	0.223	0.82	0.88	Pass	Pass	-7.24
Pimephales promelas	Biomass	7 day	0.108	0.120	0.82	0.97	Pass	Pass	-18.72
Pimephales promelas	Biomass	7 day	0.108	0.076	0.82	0.95	Pass	Pass	-16.31
Pimephales promelas	Biomass	7 day	0.108	0.091	0.82	0.89	Pass	Pass	-8.72
Pimephales promelas	Biomass	7 day	0.108	0.186	0.82	0.94	Pass	Pass	-15.09
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	5.774	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	5.000	97.50	97.50	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	5.000	5.774	97.50	95.00	Pass	Pass	2.56
Pimephales promelas	Biomass	7 day	0.156	0.049	0.83	1.00	Pass	Pass	-20.87
Pimephales promelas	Biomass	7 day	0.156	0.118	0.83	0.99	Pass	Pass	-19.07
Pimephales promelas	Biomass	7 day	0.156	0.120	0.83	0.82	Pass	Pass	1.50
Pimephales promelas	Biomass	7 day	0.156	0.020	0.83	0.89	Pass	Pass	-6.87
Pimephales promelas	Biomass	7 day	0.156	0.077	0.83	0.94	Pass	Pass	-13.13
Pimephales promelas	Biomass	7 day	0.156	0.154	0.83	1.04	Pass	Pass	-25.06
Selenastrum capricornutum	Growth	96 hours	116153.634	285000.000	5937500.00	6362500.00	Pass	Pass	-7.16
Selenastrum capricornutum	Growth	96 hours	116153.634	492510.575	5937500.00	6605000.00	Pass	Pass	-11.24
Selenastrum capricornutum	Growth	96 hours	116153.634	850450.861	5937500.00	9240000.00	Pass	Pass	-55.62
Selenastrum capricornutum	Growth	96 hours	116153.634	236273.147	5937500.00	7017500.00	Pass	Pass	-18.19
Selenastrum capricornutum	Growth	96 hours	116153.634	614132.179	5937500.00	2627500.00	Fail	Fail	55.75

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Selenastrum capricornutum	Growth	96 hours	116153.634	265455.583	5937500.00	7300000.00	Pass	Pass	-22.95
Selenastrum capricornutum	Growth	96 hours	116153.634	605364.904	5937500.00	6370000.00	Pass	Pass	-7.28
Selenastrum capricornutum	Growth	96 hours	116153.634	122746.351	5937500.00	7240000.00	Pass	Pass	-21.94
Selenastrum capricornutum	Growth	96 hours	116153.634	139134.228	5937500.00	7087500.00	Pass	Pass	-19.37
Selenastrum capricornutum	Growth	96 hours	116153.634	551543.289	5937500.00	5790000.00	Pass	Pass	2.48
Selenastrum capricornutum	Growth	96 hours	116153.634	485274.836	5937500.00	6337500.00	Pass	Pass	-6.74
Selenastrum capricornutum	Growth	96 hours	116153.634	773692.445	5937500.00	6880000.00	Pass	Pass	-15.87
Selenastrum capricornutum	Growth	96 hours	116153.634	193563.082	5937500.00	6670000.00	Pass	Pass	-12.34
Ceriodaphnia dubia	Reproduction	6-8 day	6.395	9.673	31.70	32.70	Pass	Pass	-3.15
Ceriodaphnia dubia	Reproduction	6-8 day	6.395	14.728	31.70	32.70	Pass	Pass	-3.15
Ceriodaphnia dubia	Reproduction	6-8 day	6.395	8.179	31.70	28.70	Pass	Pass	9.46
Ceriodaphnia dubia	Reproduction	6-8 day	6.395	7.818	31.70	35.30	Pass	Pass	-11.36
Ceriodaphnia dubia	Reproduction	6-8 day	6.395	11.047	31.70	29.60	Pass	Pass	6.62
Ceriodaphnia dubia	Reproduction	6-8 day	4.326	5.568	32.40	32.33	Pass	Pass	0.21
Ceriodaphnia dubia	Reproduction	6-8 day	4.326	10.464	32.40	29.00	Pass	Pass	10.49
Ceriodaphnia dubia	Reproduction	6-8 day	4.326	6.415	32.40	30.60	Pass	Pass	5.56
Ceriodaphnia dubia	Reproduction	6-8 day	4.326	12.412	32.40	22.50	Fail	Fail	30.56
Ceriodaphnia dubia	Reproduction	6-8 day	4.326	8.617	32.40	31.00	Pass	Pass	4.32
Ceriodaphnia dubia	Reproduction	6-8 day	8.736	7.230	32.90	33.44	Pass	Pass	-1.65
Ceriodaphnia dubia	Reproduction	6-8 day	8.736	13.415	32.90	31.80	Pass	Pass	3.34
Ceriodaphnia dubia	Reproduction	6-8 day	8.736	14.253	32.90	30.40	Pass	Pass	7.60
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.000	17.078	100.00	82.50	Fail	Pass	17.50
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00

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Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	15.000	100.00	92.50	Pass	Pass	7.50
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Biomass	7 day	0.067	0.054	0.91	0.88	Pass	Pass	3.86
Pimephales promelas	Biomass	7 day	0.067	0.063	0.91	0.80	Pass	Fail	12.71
Pimephales promelas	Biomass	7 day	0.067	0.063	0.91	0.88	Pass	Pass	4.00
Pimephales promelas	Biomass	7 day	0.067	0.036	0.91	0.92	Pass	Pass	-0.96
Pimephales promelas	Biomass	7 day	0.067	0.065	0.91	0.91	Pass	Pass	-0.05
Pimephales promelas	Biomass	7 day	0.067	0.120	0.91	0.79	Pass	Pass	13.64
Pimephales promelas	Biomass	7 day	0.067	0.066	0.91	0.84	Pass	Pass	8.16
Pimephales promelas	Biomass	7 day	0.067	0.132	0.91	0.68	Fail	Fail	25.39
Pimephales promelas	Biomass	7 day	0.067	0.051	0.91	0.83	Pass	Fail	9.37
Pimephales promelas	Biomass	7 day	0.067	0.096	0.91	0.85	Pass	Pass	6.35
Pimephales promelas	Biomass	7 day	0.067	0.057	0.91	0.92	Pass	Pass	-0.47
Pimephales promelas	Biomass	7 day	0.067	0.226	0.91	0.92	Pass	Pass	-0.47
Pimephales promelas	Biomass	7 day	0.067	0.077	0.91	0.95	Pass	Pass	-3.53
Selenastrum capricornutum	Growth	96 hours	703822.894	458284.846	5605000.00	5817500.00	Pass	Pass	-3.79
Selenastrum capricornutum	Growth	96 hours	703822.894	262424.592	5605000.00	5630000.00	Pass	Pass	-0.45
Selenastrum capricornutum	Growth	96 hours	703822.894	377403.409	5605000.00	5395000.00	Pass	Pass	3.75
Selenastrum capricornutum	Growth	96 hours	703822.894	959322.678	5605000.00	5705000.00	Pass	Pass	-1.78
Selenastrum capricornutum	Growth	96 hours	703822.894	691248.870	5605000.00	5282500.00	Pass	Pass	5.75
Selenastrum capricornutum	Growth	96 hours	703822.894	766610.505	5605000.00	5932500.00	Pass	Pass	-5.84
Selenastrum capricornutum	Growth	96 hours	703822.894	575579.418	5605000.00	6127500.00	Pass	Pass	-9.32
Selenastrum capricornutum	Growth	96 hours	703822.894	971815.312	5605000.00	5382500.00	Pass	Pass	3.97
Selenastrum capricornutum	Growth	96 hours	703822.894	314682.380	5605000.00	5497500.00	Pass	Pass	1.92
Selenastrum capricornutum	Growth	96 hours	703822.894	431161.223	5605000.00	5885000.00	Pass	Pass	-5.00
Selenastrum capricornutum	Growth	96 hours	703822.894	667058.218	5605000.00	5865000.00	Pass	Pass	-4.64
Selenastrum capricornutum	Growth	96 hours	703822.894	670292.225	5605000.00	6277500.00	Pass	Pass	-12.00
Selenastrum capricornutum	Growth	96 hours	703822.894	985985.125	5605000.00	5655000.00	Pass	Pass	-0.89

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Ceriodaphnia dubia	Reproduction	6-8 day	5.978	6.516	14.20	14.70	Pass	Pass	-3.52
Ceriodaphnia dubia	Reproduction	6-8 day	5.978	6.154	14.20	16.90	Pass	Pass	-19.01
Ceriodaphnia dubia	Reproduction	6-8 day	5.978	4.473	14.20	15.30	Pass	Pass	-7.75
Pimephales promelas	Survival	7 day	10.000	5.774	95.00	95.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	10.000	5.774	95.00	95.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	10.000	5.774	95.00	95.00	Pass	Pass	0.00
Pimephales promelas	Biomass	7 day	0.021	0.030	0.30	0.34	Pass	Pass	-10.38
Pimephales promelas	Biomass	7 day	0.021	0.024	0.30	0.32	Pass	Pass	-5.02
Pimephales promelas	Biomass	7 day	0.021	0.055	0.30	0.29	Pass	Pass	2.88
Selenastrum capricornutum	Growth	96 hours	83727.236	80415.587	1042750.00	1690000.00	Pass	Pass	-62.07
Selenastrum capricornutum	Growth	96 hours	83727.236	24494.897	1042750.00	1050000.00	Pass	Pass	-0.70
Selenastrum capricornutum	Growth	96 hours	83727.236	54853.593	1042750.00	674250.00	Fail	Fail	35.34
Ceriodaphnia dubia	Reproduction	6-8 day	8.144	8.359	23.10	23.90	Pass	Pass	-3.46
Ceriodaphnia dubia	Reproduction	6-8 day	8.144	3.399	23.10	37.00	Pass	Pass	-60.17
Ceriodaphnia dubia	Reproduction	6-8 day	10.688	2.946	23.30	13.30	Fail	Fail	42.92
Ceriodaphnia dubia	Reproduction	6-8 day	10.688	9.934	23.30	26.70	Pass	Pass	-14.59
Ceriodaphnia dubia	Reproduction	6-8 day	10.688	8.377	23.30	25.80	Pass	Pass	-10.73
Ceriodaphnia dubia	Reproduction	6-8 day	10.688	0.000	23.30	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	10.688	0.000	23.30	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	5.817	0.000	21.50	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	5.817	4.790	21.50	26.50	Pass	Pass	-23.26
Ceriodaphnia dubia	Reproduction	6-8 day	5.817	2.121	21.50	4.50	Fail	Fail	79.07
Ceriodaphnia dubia	Reproduction	6-8 day	5.817	0.000	21.50	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	5.719	2.877	20.40	26.50	Pass	Pass	-29.90
Ceriodaphnia dubia	Reproduction	6-8 day	5.719	7.409	20.40	14.30	Fail	Fail	29.90
Ceriodaphnia dubia	Reproduction	6-8 day	7.903	12.867	17.30	28.70	Pass	Pass	-65.90
Ceriodaphnia dubia	Reproduction	6-8 day	7.903	0.000	17.30	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	7.903	8.602	17.30	15.00	Fail	Pass	13.29
Ceriodaphnia dubia	Reproduction	6-8 day	3.348	0.632	20.10	0.20	Fail	Fail	99.00
Ceriodaphnia dubia	Reproduction	6-8 day	7.044	3.894	15.50	2.50	Fail	Fail	83.87

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	7.044	4.709	15.50	22.80	Pass	Pass	-47.10
Ceriodaphnia dubia	Reproduction	6-8 day	7.044	6.125	15.50	18.80	Pass	Pass	-21.29
Ceriodaphnia dubia	Reproduction	6-8 day	7.044	9.077	15.50	28.80	Pass	Pass	-85.81
Ceriodaphnia dubia	Reproduction	6-8 day	7.044	10.111	15.50	12.00	Fail	Pass	22.58
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Biomass	7 day	0.056	0.021	0.70	0.86	Pass	Pass	-23.42
Pimephales promelas	Biomass	7 day	0.056	0.052	0.70	0.94	Pass	Pass	-34.89
Pimephales promelas	Biomass	7 day	0.056	0.019	0.70	0.86	Pass	Pass	-22.78
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	5.774	100.00	95.00	Pass	Pass	5.00
Pimephales promelas	Survival	7 day	0.000	5.550	100.00	97.23	Pass	Pass	2.78
Pimephales promelas	Survival	7 day	0.000	5.550	100.00	97.23	Pass	Pass	2.78
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	0.00	Fail	Fail	100.00
Pimephales promelas	Biomass	7 day	0.023	0.057	0.67	0.72	Pass	Pass	-7.09
Pimephales promelas	Biomass	7 day	0.023	0.053	0.67	0.63	Pass	Pass	5.79
Pimephales promelas	Biomass	7 day	0.023	0.051	0.67	0.78	Pass	Pass	-15.18
Pimephales promelas	Biomass	7 day	0.023	0.044	0.67	0.67	Pass	Pass	0.78
Pimephales promelas	Biomass	7 day	0.023	0.000	0.67	0.00	Fail	Fail	100.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	5.000	100.00	97.50	Pass	Pass	2.50
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Biomass	7 day	0.101	0.029	0.64	0.89	Pass	Pass	-38.93
Pimephales promelas	Biomass	7 day	0.101	0.048	0.64	0.91	Pass	Pass	-41.39
Pimephales promelas	Biomass	7 day	0.101	0.063	0.64	0.84	Pass	Pass	-30.36
Pimephales promelas	Biomass	7 day	0.101	0.073	0.64	0.74	Pass	Pass	-15.16
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00
Pimephales promelas	Survival	7 day	0.000	0.000	100.00	100.00	Pass	Pass	0.00

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Pimephales promelas	Biomass	7 day	0.021	0.029	0.37	0.46	Pass	Pass	-23.72
Pimephales promelas	Biomass	7 day	0.021	0.016	0.37	0.41	Pass	Pass	-9.57
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	0.00	Fail	Fail	100.00
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Biomass	7 day	0.039	0.015	0.41	0.51	Pass	Pass	-24.51
Pimephales promelas	Biomass	7 day	0.039	0.000	0.41	0.00	Fail	Fail	100.00
Pimephales promelas	Biomass	7 day	0.039	0.021	0.41	0.48	Pass	Pass	-18.00
Pimephales promelas	Survival	7 day	5.000	0.000	97.50	100.00	Pass	Pass	-2.56
Pimephales promelas	Biomass	7 day	0.042	0.030	0.39	0.44	Pass	Pass	-12.93
Selenastrum capricornutum	Growth	96 hours	251133.895	112750.595	2959400.00	1684850.00	Fail	Fail	43.07
Selenastrum capricornutum	Growth	96 hours	251133.895	348789.449	2959400.00	2017600.00	Fail	Fail	31.82
Selenastrum capricornutum	Growth	96 hours	253243.037	302079.509	3451025.00	2184250.00	Fail	Fail	36.71
Selenastrum capricornutum	Growth	96 hours	253243.037	382979.924	3451025.00	3646075.00	Pass	Pass	-5.65
Selenastrum capricornutum	Growth	96 hours	253243.037	251749.537	3451025.00	3663825.00	Pass	Pass	-6.17
Selenastrum capricornutum	Growth	96 hours	253243.037	129917.240	3451025.00	1943725.00	Fail	Fail	43.68
Selenastrum capricornutum	Growth	96 hours	253243.037	32213.556	3451025.00	427587.50	Fail	Fail	87.61
Selenastrum capricornutum	Growth	96 hours	313063.491	189165.492	3276375.00	1763450.00	Fail	Fail	46.18
Selenastrum capricornutum	Growth	96 hours	116187.047	161590.932	3095750.00	2058975.00	Fail	Fail	33.49
Selenastrum capricornutum	Growth	96 hours	289504.005	766460.525	3214475.00	2039950.00	Fail	Fail	36.54
Selenastrum capricornutum	Growth	96 hours	289504.005	216411.620	3214475.00	3440725.00	Pass	Pass	-7.04
Ceriodaphnia dubia	Reproduction	6-8 day	9.778	0.000	23.40	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	9.778	4.725	23.40	25.10	Pass	Pass	-7.26
Ceriodaphnia dubia	Reproduction	6-8 day	9.778	6.852	23.40	22.50	Pass	Pass	3.85
Ceriodaphnia dubia	Reproduction	6-8 day	9.778	5.598	23.40	21.00	Pass	Pass	10.26
Ceriodaphnia dubia	Reproduction	6-8 day	10.028	0.000	17.38	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	10.028	4.595	17.38	42.00	Pass	Pass	-141.73
Ceriodaphnia dubia	Reproduction	6-8 day	10.028	9.407	17.38	24.50	Pass	Pass	-41.01
Ceriodaphnia dubia	Reproduction	6-8 day	10.028	6.273	17.38	24.30	Pass	Pass	-39.86
Ceriodaphnia dubia	Reproduction	6-8 day	12.358	0.000	27.60	0.00	Fail	Fail	100.00

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	12.358	11.306	27.60	28.40	Pass	Pass	-2.90
Ceriodaphnia dubia	Reproduction	6-8 day	12.358	13.892	27.60	23.10	Fail	Pass	16.30
Ceriodaphnia dubia	Reproduction	6-8 day	12.358	12.903	27.60	32.50	Pass	Pass	-17.75
Ceriodaphnia dubia	Reproduction	6-8 day	6.023	3.853	24.56	22.80	Pass	Pass	7.15
Ceriodaphnia dubia	Reproduction	6-8 day	6.023	5.165	24.56	22.30	Pass	Pass	9.19
Ceriodaphnia dubia	Reproduction	6-8 day	6.023	6.647	24.56	13.20	Fail	Fail	46.24
Ceriodaphnia dubia	Reproduction	6-8 day	9.520	0.000	25.80	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	9.520	10.379	25.80	26.20	Pass	Pass	-1.55
Ceriodaphnia dubia	Reproduction	6-8 day	9.520	7.843	25.80	27.20	Pass	Pass	-5.43
Ceriodaphnia dubia	Reproduction	6-8 day	9.520	12.202	25.80	23.70	Pass	Fail	8.14
Ceriodaphnia dubia	Reproduction	6-8 day	9.520	6.064	25.80	31.10	Pass	Pass	-20.54
Ceriodaphnia dubia	Reproduction	6-8 day	9.520	1.509	25.80	30.50	Pass	Pass	-18.22
Ceriodaphnia dubia	Reproduction	6-8 day	4.442	2.710	29.20	29.30	Pass	Pass	-0.34
Ceriodaphnia dubia	Reproduction	6-8 day	4.442	4.619	29.20	33.00	Pass	Pass	-13.01
Ceriodaphnia dubia	Reproduction	6-8 day	4.442	10.060	29.20	26.90	Pass	Pass	7.88
Ceriodaphnia dubia	Reproduction	6-8 day	4.442	4.944	29.20	30.00	Pass	Pass	-2.74
Ceriodaphnia dubia	Reproduction	6-8 day	4.442	6.964	29.20	28.50	Pass	Pass	2.40
Ceriodaphnia dubia	Reproduction	6-8 day	4.442	3.546	29.20	30.29	Pass	Pass	-3.72
Ceriodaphnia dubia	Reproduction	6-8 day	4.442	5.607	29.20	26.90	Pass	Pass	7.88
Ceriodaphnia dubia	Reproduction	6-8 day	4.442	6.423	29.20	32.00	Pass	Pass	-9.59
Ceriodaphnia dubia	Reproduction	6-8 day	4.442	7.836	29.20	21.63	Fail	Fail	25.94
Ceriodaphnia dubia	Reproduction	6-8 day	4.442	10.912	29.20	29.20	Pass	Pass	0.00
Ceriodaphnia dubia	Reproduction	6-8 day	4.442	12.538	29.20	31.10	Pass	Pass	-6.51
Ceriodaphnia dubia	Reproduction	6-8 day	4.442	5.626	29.20	27.90	Pass	Pass	4.45
Ceriodaphnia dubia	Reproduction	6-8 day	9.255	5.017	22.90	25.50	Pass	Pass	-11.35
Ceriodaphnia dubia	Reproduction	6-8 day	9.255	3.909	22.90	31.44	Pass	Pass	-37.31
Ceriodaphnia dubia	Reproduction	6-8 day	9.255	5.355	22.90	25.70	Pass	Pass	-12.23
Ceriodaphnia dubia	Reproduction	6-8 day	9.255	7.248	22.90	25.56	Pass	Pass	-11.60
Ceriodaphnia dubia	Reproduction	6-8 day	9.255	10.758	22.90	26.80	Pass	Pass	-17.03
Ceriodaphnia dubia	Reproduction	6-8 day	9.255	8.613	22.90	17.80	Fail	Pass	22.27

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	9.207	2.291	27.90	23.00	Pass	Pass	17.56
Ceriodaphnia dubia	Reproduction	6-8 day	9.207	3.795	27.90	28.80	Pass	Pass	-3.23
Ceriodaphnia dubia	Reproduction	6-8 day	9.207	5.466	27.90	30.10	Pass	Pass	-7.89
Ceriodaphnia dubia	Reproduction	6-8 day	9.207	4.577	27.90	29.50	Pass	Pass	-5.73
Ceriodaphnia dubia	Reproduction	6-8 day	9.207	4.835	27.90	20.60	Fail	Fail	26.16
Ceriodaphnia dubia	Reproduction	6-8 day	9.207	4.243	27.90	32.00	Pass	Pass	-14.70
Ceriodaphnia dubia	Reproduction	6-8 day	9.207	5.131	27.90	22.10	Fail	Fail	20.79
Ceriodaphnia dubia	Reproduction	6-8 day	9.207	2.646	27.90	29.67	Pass	Pass	-6.33
Ceriodaphnia dubia	Reproduction	6-8 day	9.207	2.807	27.90	31.10	Pass	Pass	-11.47
Ceriodaphnia dubia	Reproduction	6-8 day	9.207	4.333	27.90	34.56	Pass	Pass	-23.86
Ceriodaphnia dubia	Reproduction	6-8 day	9.207	7.982	27.90	27.00	Pass	Pass	3.23
Ceriodaphnia dubia	Reproduction	6-8 day	8.683	10.761	15.50	23.30	Pass	Pass	-50.32
Ceriodaphnia dubia	Reproduction	6-8 day	8.683	8.409	15.50	22.60	Pass	Pass	-45.81
Ceriodaphnia dubia	Reproduction	6-8 day	8.683	10.895	15.50	15.78	Pass	Pass	-1.79
Ceriodaphnia dubia	Reproduction	6-8 day	8.683	10.920	15.50	20.33	Pass	Pass	-31.18
Ceriodaphnia dubia	Reproduction	6-8 day	8.683	9.250	15.50	22.70	Pass	Pass	-46.45
Ceriodaphnia dubia	Reproduction	6-8 day	9.228	11.263	14.60	42.20	Pass	Pass	-189.04
Ceriodaphnia dubia	Reproduction	6-8 day	9.228	21.515	14.60	31.00	Pass	Pass	-112.33
Ceriodaphnia dubia	Reproduction	6-8 day	9.228	10.461	14.60	40.90	Pass	Pass	-180.14
Ceriodaphnia dubia	Reproduction	6-8 day	9.228	15.050	14.60	38.50	Pass	Pass	-163.70
Ceriodaphnia dubia	Reproduction	6-8 day	9.228	13.083	14.60	28.50	Pass	Pass	-95.21
Ceriodaphnia dubia	Reproduction	6-8 day	9.228	12.084	14.60	44.70	Pass	Pass	-206.16
Ceriodaphnia dubia	Reproduction	6-8 day	5.685	0.000	31.90	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	5.685	14.492	31.90	35.70	Pass	Pass	-11.91
Ceriodaphnia dubia	Reproduction	6-8 day	5.685	13.068	31.90	33.10	Pass	Pass	-3.76
Ceriodaphnia dubia	Reproduction	6-8 day	5.685	7.792	31.90	32.40	Pass	Pass	-1.57
Ceriodaphnia dubia	Reproduction	6-8 day	5.685	6.835	31.90	38.50	Pass	Pass	-20.69
Ceriodaphnia dubia	Reproduction	6-8 day	5.685	14.843	31.90	25.90	Fail	Pass	18.81
Ceriodaphnia dubia	Reproduction	6-8 day	10.585	11.855	28.60	37.10	Pass	Pass	-29.72
Ceriodaphnia dubia	Reproduction	6-8 day	10.585	6.553	28.60	28.50	Pass	Pass	0.35

Test Species	Endpoint	Duration	Control SD	Sample SD	Control Mean	Sample Mean	TST Pass or Fail	NOEC Pass or Fail	Mean % Effect at 100% Sample
Ceriodaphnia dubia	Reproduction	6-8 day	10.585	10.863	28.60	29.30	Pass	Pass	-2.45
Ceriodaphnia dubia	Reproduction	6-8 day	10.585	6.550	28.60	40.70	Pass	Pass	-42.31
Ceriodaphnia dubia	Reproduction	6-8 day	10.585	5.012	28.60	16.70	Fail	Fail	41.61
Ceriodaphnia dubia	Reproduction	6-8 day	11.010	0.000	35.10	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	11.010	0.000	35.10	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	11.010	0.000	35.10	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	11.010	13.198	35.10	17.80	Fail	Fail	49.29
Ceriodaphnia dubia	Reproduction	6-8 day	11.010	3.120	35.10	5.80	Fail	Fail	83.48
Ceriodaphnia dubia	Reproduction	6-8 day	11.010	0.000	35.10	0.00	Fail	Fail	100.00
Ceriodaphnia dubia	Reproduction	6-8 day	11.010	9.009	35.10	32.50	Pass	Pass	7.41
Ceriodaphnia dubia	Reproduction	6-8 day	9.889	4.547	26.70	23.70	Pass	Fail	11.24
Ceriodaphnia dubia	Reproduction	6-8 day	9.889	12.419	26.70	22.70	Fail	Pass	14.98
Ceriodaphnia dubia	Reproduction	6-8 day	9.889	5.774	26.70	25.30	Pass	Pass	5.24
Ceriodaphnia dubia	Reproduction	6-8 day	9.889	7.424	26.70	20.00	Fail	Fail	25.09
Ceriodaphnia dubia	Reproduction	6-8 day	9.889	4.295	26.70	27.00	Pass	Pass	-1.12
Ceriodaphnia dubia	Reproduction	6-8 day	9.889	13.034	26.70	24.10	Fail	Pass	9.74
Ceriodaphnia dubia	Reproduction	6-8 day	9.889	5.358	26.70	30.40	Pass	Pass	-13.86
Ceriodaphnia dubia	Reproduction	6-8 day	9.889	9.934	26.70	27.30	Pass	Pass	-2.25
Ceriodaphnia dubia	Reproduction	6-8 day	9.416	7.937	27.00	25.10	Pass	Pass	7.04
Ceriodaphnia dubia	Reproduction	6-8 day	9.416	7.218	27.00	12.90	Fail	Fail	52.22
Ceriodaphnia dubia	Reproduction	6-8 day	9.416	9.141	27.00	20.70	Fail	Pass	23.33