

Maxxam Ceriodaphnia dubia Bioassay Report

Project : B246481-DP0387

Client : Company Name : **Shear Diamonds**
Location : **Toronto, ON**

Sample Data :	Sample Description :	JER-SWQ-04	Sample Date :	12 06 04	Time :	n/a
	Sampling Location :	n/a	Date Received :	12 06 06	Time :	0840
	Sampling Method :	Grab	Bioassay Date :	12 06 06	Time :	1310
	Sampled By :	WA	Report Date :	12 06 18		
	Volume Obtained :	60 L				

Test Results :

Survival Statistics:

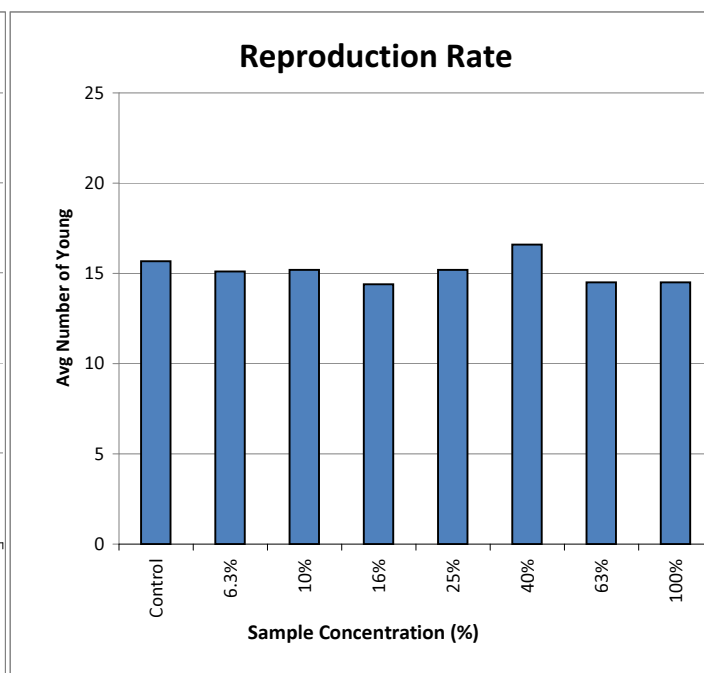
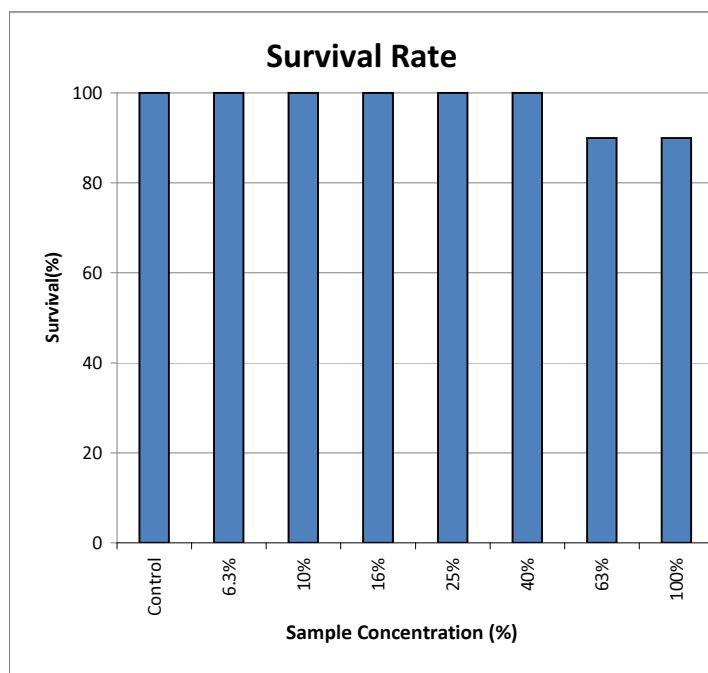
LC50 (7 day) : **>100%**
95% Confidence Level : **n/a**
Method : **Linear Interpolation**

LC 25 (7 day) : **>100%**
95% Confidence Level : **n/a**
Method : **Linear Interpolation**

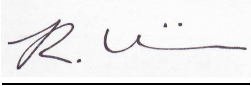
Reproduction Statistics:

IC 50 (7 day) : **>100%**
95% Confidence Level : **n/a**
Method : **Linear Interpolation**

IC 25 (7 day) : **>100%**
95% Confidence Level : **n/a**
Method : **Linear Interpolation**



Note: Results generated with CETIS Statistical Program, and relate only to the items tested.

Data Verified By: 
Robert Vivian, Senior Analyst III

Data & QA/QC Reviewed By: 
Ryan Ledl, Senior Analyst III

Legend:
LC50 = Lethal Concentration of sample, in percent, which kills
50% of test organisms.
IC50 = Inhibitory Concentration of sample in percent, which inhibits
50% of the reproduction rate of test organisms



Project : B246481-DP0387

Sample Handling:

Sub-samples Used : Yes - 3 Subsamples
Dates Sub-samples Used (YY MM DD): 12 06 06 12 06 08 12 06 10
Storage Conditions : 4°C +/- 2°C in darkness
Aeration : Yes - 3 Subsamples
Sample Prep : none
Deviations from Method : none

Test Requirements:

as per Environment Canada EPS 1/RM/21 (February 2007 Amendments)
Type of Bioassay : 7 Day Static Renewal Chronic Bioassay
Test Species : *Ceriodaphnia dubia* (single brood)
Initial Source of Test Species : National Water Research Institute, Burlington, Ontario
Source of organisms in Current Test: All test organisms used to initiate this test were taken from a series of individual cultures, that originated from the same mass culture.

Culture Health:

(see Appendix 5 for Raw Data)
Culture Mortality, Previous 7 Days : 2%
Unusual Appearance / Behaviour prior to Test : none
Mean Number of Neonates /Adult /First 3 Broods: 15.6
Mean Number of Neonates /Adult /First 3 Broods in 7 days preceding test: >15
Ephippia, Previous 7 Days : none
Age of Test Animals : <24 hours (within 12 hours)

Test Protocol :

(see Appendices 1, 2, 3 for Raw Data)
Culture Water and Test Dilution Water: Moderately Hard Reconstituted Water (Page 12, Table 2, Feb.07)
Lighting and Photoperiod : 100 - 600 lux; 16±1hr light & 8±1hr dark
Daily Feeding Rate per Daphnid: 0.3 mL Y.A.T & Algae for first 3 days, 0.4 mL Y.A.T & Algae for next 3 to 4 days
Size and Material of Test Container : Fisherbrand 50 x 120 mm disposable glass test tubes, 50 mL capacity
Container Covers : Plastic Sheets
Volume and Depth of Test Solution per Container : 15 mL / 50 mm
Concentrations of Test Material : 0, 6.3, 10, 16, 25, 40, 63 and 100%
Number of Neonates per Container : 1
Number of Replicates per Treatment : 10
Volume of Solution per Daphnid : ≥15 mL
Frequency of Solution Replacement : 24 hour Intervals
Hardness Adjustment : none
pH Adjustment or Filtration : none
Aeration During Test : 20 minutes
Controls average ≥15 neonates / First 3 broods: 15.6
Date When 60% of Controls Produced 3 Broods : 12 06 13
Randomization Code: I
Statistical Criteria: The 4th brood or subsequent broods produced during the test are not included in the final statistical analysis

Additional Comments: One neonate transfer loss in the control was removed from analysis as it represented an outlier



**Appendix 1: Effluent properties at beginning of each 24hr period
With Behaviour/Mortality Data and Summation Statistics**

Project : B246481-DP0387

Setup		Effluent Properties Upon Arrival:			Temperature °C	pH	EC µS cm-1	Dissolved Oxygen mg/L	
					8.4	7.6	96	12.9	
		Analyst: R. LEDL		Effluent Properties Before Aeration (upon temp acclim.):			23.8	7.7	135
Aeration Time (rate ~100 bubbles/min/L for max. 20 min. or 40% saturation)							None		
		After aeration (if required, max. 20 min./100 bubbles/min.)			25.8	7.6	140	10.3	

Date and Time		Description	Chemical Data of Test Concentrations							
			Control	6.3%	10%	16%	25%	40%	63%	100%
Start 12 06 06 13:10	Temperature °C	25.6	25.8	25.8	25.7	25.6	25.5	25.5	25.8	
	pH	8.1	8.1	8.0	8.0	7.9	7.8	7.8	7.6	
	Conductivity (µS cm-1)	390	379	372	358	333	291	244	140	
	Dissolved Oxygen (mg/L)	7.1	7.0	7.1	7.2	7.4	7.9	8.1	10.3	
Day 1 12 06 07 Time: 13:03 Analyst: R. LEDL	Temperature °C	25.2	25.1	25.1	25.0	24.8	24.6	24.3	24.1	
	pH	8.1	8.1	8.1	8.0	8.0	7.9	7.8	7.6	
	Conductivity (µS cm-1)	424	410	400	386	362	319	253	140	
	Dissolved Oxygen (mg/L)	6.9	7.0	7.1	7.1	7.4	7.8	8.3	10.1	
	Mortality %	0	0	0	0	0	0	0	0	
	Total Number of Young	0	0	0	0	0	0	0	0	
Day 2 12 06 08 Time: 12:05 Analyst: R. VIVIAN	Temperature °C	25.6	25.5	25.4	25.3	25.1	24.8	24.4	24.1	
	pH	8.1	8.1	8.1	8.0	8.0	7.8	7.7	7.5	
	Conductivity (µS cm-1)	416	401	391	377	350	304	233	135	
	Dissolved Oxygen (mg/L)	7.0	7.3	7.4	7.5	7.8	8.1	8.8	10.4	
	Mortality %	0	0	0	0	0	0	10	10	
	Total Number of Young	0	0	0	0	0	0	0	0	
Day 3 12 06 09 Time: 12:01 Analyst: J. SHEA	Temperature °C	24.0	24.1	24.1	24.1	24.1	24.1	24.2	24.4	
	pH	8.0	8.1	8.0	8.0	8.0	7.9	7.8	7.7	
	Conductivity (µS cm-1)	396	383	375	361	339	301	244	136	
	Dissolved Oxygen (mg/L)	7.5	7.7	7.7	7.7	7.9	8.1	8.5	9.8	
	Mortality %	0	0	0	0	0	0	0	0	
	Total Number of Young	0	0	0	2	0	0	0	0	
Day 4 12 06 10 Time: 12:00 Analyst: J. SHEA	Temperature °C	24.4	24.4	24.4	24.5	24.5	24.6	24.9	24.5	
	pH	8.1	8.1	8.0	8.0	8.0	7.9	7.8	7.7	
	Conductivity (µS cm-1)	392	377	369	354	331	295	233	137	
	Dissolved Oxygen (mg/L)	8.4	8.4	8.5	8.5	8.6	8.8	9.2	10.6	
	Mortality %	0	0	0	0	0	0	0	0	
	Total Number of Young	13	13	15	17	17	22	15	13	
Day 5 12 06 11 Time: 11:49 Analyst: R. LEDL	Temperature °C	24.0	24.0	24.2	24.4	24.6	25.0	25.6	25.9	
	pH	8.1	8.0	8.0	8.0	8.0	7.9	7.8	7.6	
	Conductivity (µS cm-1)	400	393	385	372	351	317	259	145	
	Dissolved Oxygen (mg/L)	7.8	8.0	7.4	7.8	8.1	8.0	8.2	8.9	
	Mortality %	0	0	0	0	0	0	0	0	
	Total Number of Young	39	30	44	46	41	52	35	42	
Day 6 12 06 12 Time: 11:45 Analyst: R. LEDL	Temperature °C	24.8	24.9	25.0	25.1	25.1	25.4	25.8	26.0	
	pH	8.1	8.1	8.1	8.0	8.0	7.9	7.8	7.7	
	Conductivity (µS cm-1)	413	400	392	377	354	317	257	145	
	Dissolved Oxygen (mg/L)	7.3	7.2	7.0	7.3	7.5	7.8	7.9	9.3	
	Mortality %	0	0	0	0	0	0	0	0	
	Total Number of Young	26	37	44	19	45	37	50	41	
Day 7 12 06 13 Time: 11:45-12:17 Analyst: R. LEDL	Temperature °C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	pH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	Conductivity (µS cm-1)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	Dissolved Oxygen (mg/L)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	Mortality %	0	0	0	0	0	0	0	0	
	Total Number of Young	63	71	49	60	49	55	45	49	
Day 8 (if required) 12 06 14 Analyst: N/A	Mortality %	0	0	0	0	0	0	0	0	
	Total Number of Young	0	0	0	0	0	0	0	0	
Final Data		Total of Young	141	151	152	144	152	166	145	145
		Avg Number of Young	15.7	15.1	15.2	14.4	15.2	16.6	14.5	14.5
		Total % Mortality	0	0	0	0	0	0	10	10
		Total % Survival	100	100	100	100	100	100	90	90



Appendix 2: Effluent properties at end of each 24hr period

Project : B246481-DP0387

Time	Description	Chemical Data of Test Concentrations							
		Control	6.3%	10%	16%	25%	40%	63%	100%
After Start Date 12 06 07	Temperature °C	24.6	25.1	25.6	25.8	26.2	26.2	25.8	25.5
	pH	8.2	8.3	8.4	8.4	8.4	8.4	8.3	8.2
	Conductivity (µS cm-1)	392	383	378	367	347	306	256	154
	Dissolved Oxygen (mg/L)	7.6	7.6	7.7	7.9	7.9	7.9	7.9	7.8
After Day 1 12 06 08	Temperature °C	25.6	25.4	25.6	25.3	25.5	25.3	25.2	25.0
	pH	8.2	8.1	8.1	8.0	8.0	8.0	7.9	7.7
	Conductivity (µS cm-1)	401	388	381	366	345	304	238	139
	Dissolved Oxygen (mg/L)	7.4	7.4	7.4	7.6	7.7	7.7	8.0	8.0
After Day 2 12 06 09	Temperature °C	25.7	25.3	24.8	24.9	24.6	24.2	24.2	24.3
	pH	8.5	8.4	8.6	8.6	8.4	8.5	8.3	8.0
	Conductivity (µS cm-1)	406	385	381	368	341	305	239	143
	Dissolved Oxygen (mg/L)	8.3	8.3	8.7	8.8	8.6	8.5	8.5	7.8
After Day 3 12 06 10	Temperature °C	25.0	24.9	25.3	25.2	25.0	25.3	25.8	25.8
	pH	8.2	8.0	8.1	8.0	8.0	7.9	8.0	7.8
	Conductivity (µS cm-1)	368	378	370	356	332	301	246	143
	Dissolved Oxygen (mg/L)	8.8	7.7	8.1	8.1	8.0	7.8	8.1	7.8
After Day 4 12 06 11	Temperature °C	24.3	24.4	24.5	24.7	24.9	25.1	25.0	24.9
	pH	7.9	7.8	7.8	7.7	7.7	7.7	7.7	7.7
	Conductivity (µS cm-1)	402	381	374	363	339	305	245	152
	Dissolved Oxygen (mg/L)	7.5	6.9	7.0	6.3	6.6	6.1	6.5	6.6
After Day 5 12 06 12	Temperature °C	24.8	24.8	25.1	25.3	25.1	25.4	25.5	25.6
	pH	7.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6
	Conductivity (µS cm-1)	427	410	400	388	363	326	266	156
	Dissolved Oxygen (mg/L)	5.6	5.0	5.0	4.4	5.1	5.1	5.3	5.1
After Day 6 12 06 13	Temperature °C	24.5	24.6	24.8	25.0	25.0	25.1	25.1	25.2
	pH	7.6	7.6	7.6	7.6	7.5	7.5	7.5	7.5
	Conductivity (µS cm-1)	408	394	383	373	349	284	252	141
	Dissolved Oxygen (mg/L)	5.1	4.9	5.5	5.3	5.1	4.9	5.4	5.4
After Day 7 12 06 14	Temperature °C	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	pH	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Conductivity (µS cm-1)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Dissolved Oxygen (mg/L)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



Appendix 3:

Raw Data for Test Mortality and Reproduction

Project :

B246481-DP0387

Control									
Replicate	Day								Total # Young
1	0	0	0	2	6	8			16
2	0	0	0	M					0
3	0	0	0	5	3	0	9		17
4	0	0	0	4	5	0	8		17
5	0	0	0	0	4	0	10		14
6	0	0	0	0	3	6	8		17
7	0	0	0	2	5	0	8		15
8	0	0	0	0	4	4	9		17
9	0	0	0	0	4	0	11		15
10	0	0	0	0	5	8	0		13
Total Young / Day	0	0	0	13	39	26	63	0	Total Stats avg=15.7 sd=5.2
% Mort./ Day	0	0	0	0	0	0	0	0	Total % Mort 0

6.3%									
Replicate	Day								Total # Young
1	0	0	0	0	4	4	0		8
2	0	0	0	0	0	5	9		14
3	0	0	0	4	5	0	6		15
4	0	0	0	0	5	7	0		12
5	0	0	0	5	4	0	11		20
6	0	0	0	2	0	6	8		16
7	0	0	0	0	4	5	8		17
8	0	0	0	0	4	0	10		14
9	0	0	0	2	0	5	10		17
10	0	0	0	0	4	5	9		18
Total Young / Day	0	0	0	13	30	37	71	0	Total Stats avg=15.1 sd=3.4
% Mort./ Day	0	0	0	0	0	0	0	0	Total % Mort 0

10%									
Replicate	Day								Total Young
1	0	0	0	3	6	8			17
2	0	0	0	0	5	7	0		12
3	0	0	0	0	5	4	8		17
4	0	0	0	0	5	2	8		15
5	0	0	0	2	6	0	9		17
6	0	0	0	0	7	6	0		13
7	0	0	0	4	0	6	7		17
8	0	0	0	2	0	5	9		16
9	0	0	0	0	5	6	0		11
10	0	0	0	4	5	0	8		17
Total Young / Day	0	0	0	15	44	44	49	0	Total Stats avg=15.2 sd=2.3
% Mort./ Day	0	0	0	0	0	0	0	0	Total % Mort 0

16%									
Replicate	Day								Total Young
1	0	0	0	0	5	6	0		11
2	0	0	0	2	5	0	8		15
3	0	0	0	3	4	0	7		14
4	0	0	0	2	6	0	8		16
5	0	0	2	0	5	6			13
6	0	0	0	2	0	6	0		8
7	0	0	0	4	5	0	9		18
8	0	0	0	2	5	1	9		17
9	0	0	0	0	6	0	10		16
10	0	0	0	2	5	0	9		16
Total Young / Day	0	0	2	17	46	19	60	0	Total Stats avg=14.4 sd=3
% Mort./ Day	0	0	0	0	0	0	0	0	Total % Mort 0

Legend:

X - Dead Adult

M - Missing/Lost Adult



Appendix 3:
(Continued)

Raw Data for Test Mortality and Reproduction

Project : B246481-DP0387

25%									
Replicate	Day								Total Young
	1	2	3	4	5	6	7	8	
1	0	0	0	2	4	8			14
2	0	0	0	0	6	7	0		13
3	0	0	0	4	5	7			16
4	0	0	0	0	4	6	10		20
5	0	0	0	0	6	8	0		14
6	0	0	0	4	0	5	7		16
7	0	0	0	2	5	0	10		17
8	0	0	0	2	5	0	8		15
9	0	0	0	0	2	4	6		12
10	0	0	0	3	4	0	8		15
Total Young / Day	0	0	0	17	41	45	49	0	Total Stats avg=15.2 sd=2.3
% Mort./ Day	0	0	0	0	0	0	0	0	Total % Mort 0

40%									
Replicate	Day								Total Young
	1	2	3	4	5	6	7	8	
1	0	0	0	2	7	0	10		19
2	0	0	0	4	7	0	11		22
3	0	0	0	2	6	0	9		17
4	0	0	0	2	5	8			15
5	0	0	0	3	0	6	8		17
6	0	0	0	4	7	7			18
7	0	0	0	2	4	8			14
8	0	0	0	1	7	8	0		16
9	0	0	0	2	5	0	9		16
10	0	0	0	0	4	0	8		12
Total Young / Day	0	0	0	22	52	37	55	0	Total Stats avg=16.6 sd=2.8
% Mort./ Day	0	0	0	0	0	0	0	0	Total % Mort 0

63%									
Replicate	Day								Total Young
	1	2	3	4	5	6	7	8	
1	0	0	0	0	7	0	7		14
2	0	0	0	2	0	9	0		11
3	0	0	0	0	5	9	0		14
4	0	0	0	3	6	7			16
5	0	0	0	3	6	0	11		20
6	0	0	0	4	0	11	10		25
7	0	0	0	2	5	7			14
8	0	0	0	1	2	7	9		19
9	0	0	0	0	4	0	8		12
10	0	X							0
Total Young / Day	0	0	0	15	35	50	45	0	Total Stats avg=14.5 sd=6.6
% Mort./ Day	0	10	0	0	0	0	0	0	Total % Mort 10

100%									
Replicate	Day								Total Young
	1	2	3	4	5	6	7	8	
1	0	0	0	2	6	8			16
2	0	0	0	0	4	8	0		12
3	0	0	0	0	4	0	8		12
4	0	0	0	2	6	0	11		19
5	0	X							0
6	0	0	0	3	4	0	10		17
7	0	0	0	2	5	10	0		17
8	0	0	0	2	5	7			14
9	0	0	0	0	3	8	10		21
10	0	0	0	2	5	0	10		17
Total Young / Day	0	0	0	13	42	41	49	0	Total Stats avg=14.5 sd=5.8
% Mort./ Day	0	10	0	0	0	0	0	0	Total % Mort 10

Legend:

X - Dead Adult

M - Missing/Lost Adult



Appendix 4:

Results of Seven Day NaCl Reference Bioassay

Project :

B246481-DP0387

The reference toxicant is conducted under the same experimental conditions as the definitive testing.

Survival Statistics:

Current

LC50 (7 day) : 1.67 g/L

95% Confidence Level: 1.51 < 1.67 < 2.27

Method : Linear Interpolation

Date Initiated : 6/1/12

Historical

Geometric Mean : 1.27 g/L

Warning Limits : 0.59 < 1.27 < 2.72

Method : Shewhart

Reproduction Statistics:

Current

LC50 (7 day) : 0.45 g/L

95% Confidence Level: 0.23 < 0.45 < 0.65

Method : Linear Interpolation

Date Initiated : 6/1/12

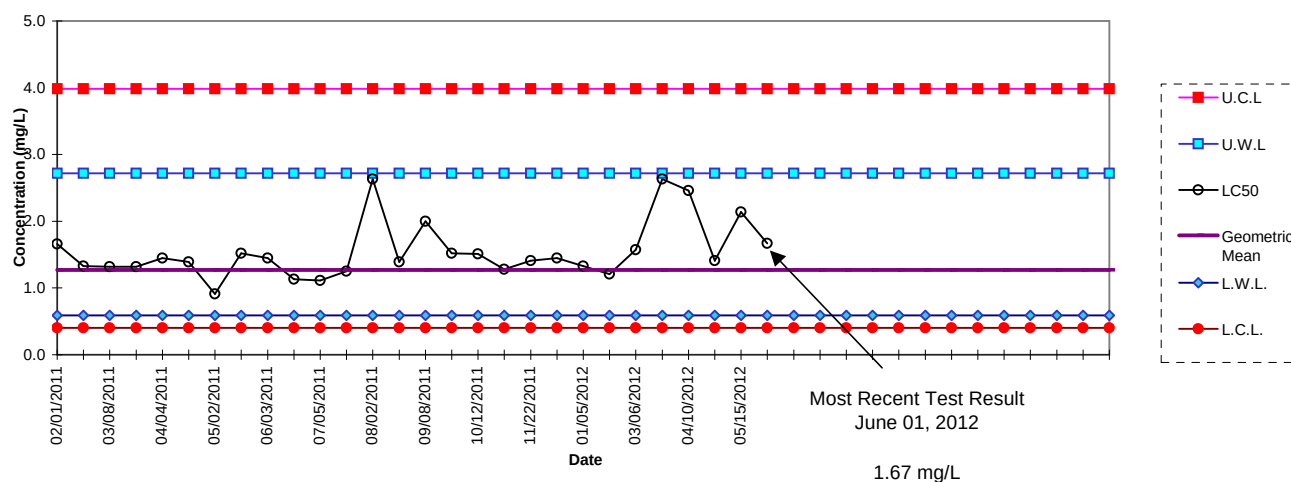
Historical

Geometric Mean : 0.50 g/L

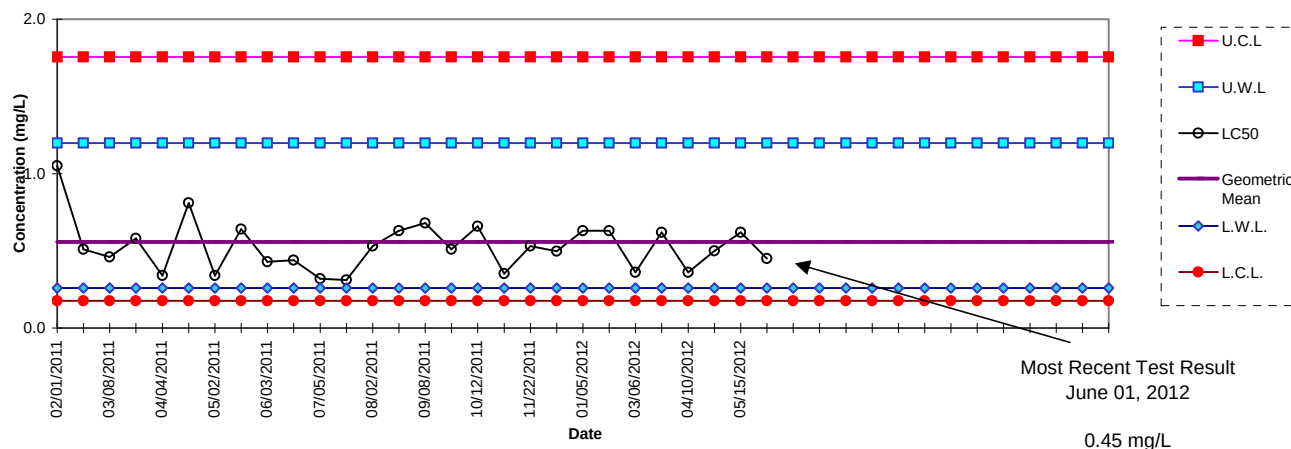
Warning Limits : 0.24 < 0.50 < 1.08

Method : Shewhart

Ceriodaphnia NaCl Reference Toxicant
Lethality Shewhart Chart (LC50)



Ceriodaphnia NaCl Reference Toxicant
Inhibition Shewhart Chart (IC50)



Appendix 5: *Ceriodaphnia dubia* 14+ Day Culture Health Raw Data Sheet

Culture

Start Date : 05/28/2012
 Finish Date : 06/11/2012

Start Time : 9:30
 Finish Time : 9:57

Set up Tech Initials : RL
 Organism lot # : 2012/05/21-AR101201

Brood Size

Culturing Date:	29-May	30-May	31-May	01-Jun	02-Jun	03-Jun	04-Jun	05-Jun	06-Jun	06-Jun								
Start Time :	9:22	8:45	8:00	10:00	9:55	8:50	8:30	8:40	20:13	12:30								
Row A 1	0	0	3	4	0	8	0	0	8	0								
2	0	0	0	0	4	4	0	10	0	11								
3	0	0	4	0	5	0	0	C										
4	0	0	0	0	7	8	0	9	0	10								
5	0	0	0	5	8	3	9	0	12	0								
6	0	0	0	4	6	4	C											
7	0	0	0	4	7	8	0	10	0	9								
8	0	0	0	3	6	0	11	0	10	0								
9	0	0	0	0	6	8	0	10	0	0								
10	0	0	0	M														
Row B 1	0	0	3	0	9	8	0	4	6	0								
2	0	0	3	4	0	0	13	10	0	14								
3	0	0	0	3	6	2	C											
4	0	0	0	4	0	3	9	0	9	8								
5	0	0	0	4	4	5	C											
6	0	0	4	0	5	10	0	0	8	0								
7	0	0	0	3	0	4	10	9	0	0								
8	0	0	0	3	5	8	0	0	7	4								
9	0	0	0	4	0	8	13	0	0	15								
10	0	0	0	3	0	6	9	8	0	0								
Row C 1	0	0	0	2	0	5	11	5	5	0								
2	0	0	0	4	4	1	0	C										
3	0	0	0	2	5	0	8	0	8	0								
4	0	0	0	4	5	0	5	C										
5	0	0	0	4	6	8	0	9	0	0								
6	0	0	0	3	5	0	12	0	0	16								
7	0	0	0	4	0	8	10	0	0	14								
8	0	0	0	5	0	9	11	0	11	0								
9	0	0	0	2	1	6	8	10	0	0								
10	0	0	0	3	0	4	0	9	12	0								

Total Young in First 3 Broods
by day 8

15
18
9
24
16
14
19
20
24
20
20
11
16
13
19
17
16
25
18
18
9
15
14
18
20
22
25
17
16

Culturing Date:	29-May	30-May	31-May	01-Jun	02-Jun	03-Jun	04-Jun	05-Jun	06-Jun	06-Jun									
Start Time :	9:30	8:53	8:11	10:30	10:09	9:25	8:40	8:53	20:21	12:46									
Row D	1	0	0	0	4	6	4	C											14
	2	0	0	0	3	0	8	11	0	9	0								22
	3	0	0	0	3	7	6	0	C										16
	4	0	0	4	0	7	8	0	5	5	0								19
	5	0	0	0	3	6	0	12	0	11	0								21
	6	0	0	0	0	5	4	14	11	0	0								23
	7	0	0	0	4	5	0	9	8	0	9								18
	8	0	0	0	2	4	0	13	9	0	0								19
	9	0	0	0	3	0	6	12	0	13	0								21
	10	0	0	0	4	0	5	9	0	0	13								18
Row E	1	0	0	0	2	5	0	0	13	0	9								20
	2	0	0	0	3	4	4	C											11
	3	0	0	0	4	5	5	C											14
	4	0	0	0	4	5	8	0	X										17
	5	0	0	0	5	5	0	12	9	0	6								22
	6	0	0	0	6	0	8	0	12	16	0								26
	7	0	0	0	3	4	0	9	10	0	0								16
	8	0	0	0	4	4	0	11	0	7	5								19
	9	0	0	0	0	7	8	0	10	0	11								25
	10	0	0	0	0	6	3	0	12	0	10								21
Row F	1	0	0	4	0	5	8	10	0	7	0								17
	2	0	0	3	2	0	8	C											13
	3	0	0	0	3	5	0	10	0	8	0								18
	4	0	0	0	4	5	1	0	10	0	9								20
	5	0	0	0	2	4	0	13	0	0	0								19
	6	0	0	0	3	7	0	9	0	0	8								19
	7	0	0	0	4	0	6	10	0	8	0								20
	8	0	0	0	4	8	0	9	8	0	0								21
	9	0	0	0	4	5	0	12	9	0	0								21
	10	0	0	0	3	0	9	0	11	9	0								23
Finish Time :	9:40	9:01	8:21	10:44	10:19	9:45	8:54	9:04	20:29	12:55									Tot
Tech :	RL	RL	RL	JSO	RL	JSO	RL	RL	RL	RL									Avg
																			1081
																			15.6

Legend:

X = Dead

M = Missing Adult

S = Small Adult

P = Pale Adult

C = Culled/Removed

On test day:

Select appropriate neonates as per defined req'ments in EENVSOP-00175.
and indicate in the brood size entries above which test they will be used for
by placing a letter according to this legend to the right.

A number will follow the letter to track which brood is where in the test.

(ie, A1 is 1st brood in Client A test. Sequential numbering A2, A3, A4 etc)

Client ID**Client ID**

A	SWQ-04	D	
B		E	
C		F	

Culture Mortality Records:

Start Population	60																		
Dead	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
Missing/Culled	0	0	0	1	0	0	7	4	0	0	0	0	0	0	0	0	0	0	0
Total Number	60	60	60	59	59	59	52	47	47	47	47	47	47	47	47	47	47	47	47
% Mort																			
Daily	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prev 7 days							0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0