

CETIS Test Evaluation Report

Report Date: 25 Oct-23 13:50 (1 of 2)
Test Code/ID: CDUD1393 / 09-1500-0673

Facility: Yakima WWTP
Sample Site:
Sample Code: CDUD1393
Sample Date: 02 Oct-23 08:08
Sample Age: 29h (0.5 °C)
Project:

Permittee: Yakima
Address:

Contact:
Phone:
Email:

Test Name: Ceriodaphnia 7-d Survival and Reproduction Test
Organism: Ceriodaphnia dubia
Protocol: EPA/821/R-02-013 (2002)
Start Date: 03 Oct-23 13:25
End Date: 10 Oct-23 13:15
Duration: 7d
Organism Age: <24h

Laboratory: Rainier Environmental Laboratory
Address: 5013 Pacific Highway E.
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Fife, WA 98424
Contact: Eric Tollefson, Laboratory Manager
Phone: (253) 922-8898
Email: eric@rainierenvironmental.com

Chronic Toxicity Evaluation

Analysis ID	Endpoint	Criteria	Conc-%	IWC	Decision	Method
12-5268-8212	7-day Survival	NOEL/LOEL	100/>100	9.88	Passes IWC	Fisher Exact/Bonferroni-Holm Test
08-6361-6054	Reproduction	NOEL/LOEL	100/>100	9.88	Passes IWC	Steel Many-One Rank Sum Test

Test Review Comments

This toxicity test is acceptable according to test review criteria. There were no significant deficiencies in sample handling, test performance, test organism response, or statistical analysis.

The sample tested was nontoxic to this test organism.

Test Reviewer

Reviewer: Chris Dudenhoeffer, WET Coordinator
Phone: 360-407-6445
Email: cdud461@ecy.wa.gov

Signature

Date

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7-day Survival Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	0.9000	0.6738	1.1260	0.0000	1.0000	0.1000	0.3162	35.14%	0.00%
9.88		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-11.11%
12.5		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-11.11%
25		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-11.11%
53.8		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-11.11%
100		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	-11.11%

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	27.5	19.09	35.91	4	37	3.719	11.76	42.76%	0.00%
9.88		10	34.8	31.33	38.27	23	40	1.533	4.849	13.93%	-26.55%
12.5		10	32.5	29.59	35.41	26	38	1.285	4.062	12.50%	-18.18%
25		10	33.3	30.71	35.89	25	36	1.146	3.622	10.88%	-21.09%
53.8		10	34.8	29.08	40.52	18	41	2.529	7.997	22.98%	-26.55%
100		10	33.3	30.99	35.61	27	37	1.023	3.234	9.71%	-21.09%

7-day Survival Detail

MD5: CCE9A41C228119570079536A0FE5F421

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1.0000	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
9.88		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
12.5		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
53.8		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

Reproduction Detail

MD5: BD09A3762EC6B35CD115E107047D9D45

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	37	4	20	11	30	34	37	34	36	32
9.88		39	35	23	40	35	32	35	39	36	34
12.5		38	31	34	38	28	29	32	26	34	35
25		33	33	35	36	35	35	25	29	36	36
53.8		41	24	41	32	41	35	18	41	37	38
100		33	31	32	27	33	36	37	31	36	37

7-day Survival Binomials

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	1/1	0/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
9.88		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
12.5		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
53.8		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
100		1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1