

CETIS Test Evaluation Report

Report Date: 28 Nov-23 13:13 (1 of 2)
Test Code/ID: 274683_CD / 14-1432-5546

Facility: TransAlta Centralia Generation LLC
Sample Site:
Sample Code: 274683
Sample Date: 25 Sep-23 09:00
Sample Age: 26h (0.7 °C)
Project:

Test Name: Ceriodaphnia 7-d Survival and Reproduction Test
Organism: Ceriodaphnia dubia
Protocol: EPA/821/R-02-013 (2002)
Start Date: 26 Sep-23 11:14
End Date: 03 Oct-23 09:40
Duration: 6d 22h Organism Age: <24h

Laboratory: Eurofins Arkansas
Address:

Contact:
Phone:
Email:

Chronic Toxicity Evaluation

Analysis ID	Endpoint	Criteria	Conc-%	IWC	Decision	Method
00-4508-0528	7-day Survival	NOEL/LOEL	100/>100	100	Passes IWC	Fisher Exact/Bonferroni-Holm Test
10-7286-4340	Reproduction	NOEL/LOEL	6.25/12.5	100	Fails 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.

This test demonstrated significant toxicity that did not comply with the WET limit in the permit. Follow all instructions in the permit for additional monitoring in response to non-compliance with a WET limit. Additional monitoring will be used to confirm the continuing presence of toxicity in the effluent and the need for further regulatory requirements. Passing follow-up tests will regain compliance with the WET limit.

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	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
6.25		10	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	0.0000	0.00%	0.00%
12.5		10	0.9000	0.6738	1.1260	0.0000	1.0000	0.1000	0.3162	35.14%	10.00%
25		10	0.8000	0.4984	1.1020	0.0000	1.0000	0.1333	0.4216	52.70%	20.00%
50		10	0.8000	0.4984	1.1020	0.0000	1.0000	0.1333	0.4216	52.70%	20.00%
100		10	0.8000	0.4984	1.1020	0.0000	1.0000	0.1333	0.4216	52.70%	20.00%

Reproduction Summary

Conc-%	Code	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	D	10	28.8	27.55	30.05	26	32	0.5538	1.751	6.08%	0.00%
6.25		10	26.7	22.21	31.19	11	32	1.984	6.273	23.49%	7.29%
12.5		10	18.7	13.24	24.16	7	28	2.413	7.631	40.81%	35.07%
25		10	13.5	9.927	17.07	5	22	1.579	4.994	37.00%	53.13%
50		10	8.5	6.158	10.84	3	14	1.035	3.274	38.52%	70.49%
100		10	1.4	0.5603	2.24	0	3	0.3712	1.174	83.84%	95.14%

7-day Survival Detail

MD5: 318DEED82E266A796E419D6D3209A377

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	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
6.25		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	0.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
25		1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	0.0000	1.0000	1.0000
50		1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	1.0000	1.0000	0.0000
100		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.0000	1.0000	0.0000	1.0000

Reproduction Detail

MD5: 44AC45E3E1DEF5645BC50B6D0451DBC

Conc-%	Code	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	D	29	32	30	26	27	29	27	29	30	29
6.25		30	29	23	27	27	31	32	11	32	25
12.5		20	17	28	8	12	24	27	25	19	7
25		10	19	22	13	5	9	15	11	16	15
50		10	14	9	12	3	10	6	9	6	6
100		3	2	0	3	0	1	0	2	1	2

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	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
6.25		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	0/1	1/1	1/1	1/1	1/1	1/1	1/1
25		1/1	1/1	1/1	1/1	0/1	1/1	1/1	0/1	1/1	1/1
50		1/1	1/1	1/1	1/1	1/1	0/1	1/1	1/1	1/1	0/1
100		1/1	1/1	1/1	1/1	1/1	1/1	0/1	1/1	0/1	1/1