



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH
April 14, 2008

Ms. Leigh Ann Grabowsky
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1432

Dear Ms. Grabowsky:

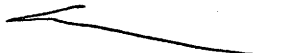
We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, EPA-821-R-02-012. Results were as follows:

CLIENT:	City of Santa Barbara – Creeks Division
SAMPLE I.D.:	6-MC2800
DATE RECEIVED:	8 April - 08
ABC LAB. NO.:	CSE0408.092

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50 = 95 % Survival in 100 % Sample
TU(a) = 0.41

Yours very truly,


Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date: 4/9/2008	Test ID: CSE0408092	Sample ID: CA0000000
End Date: 4/13/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 4/8/2008	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas
Comments: 6-MC2800 (08-04-0747)		

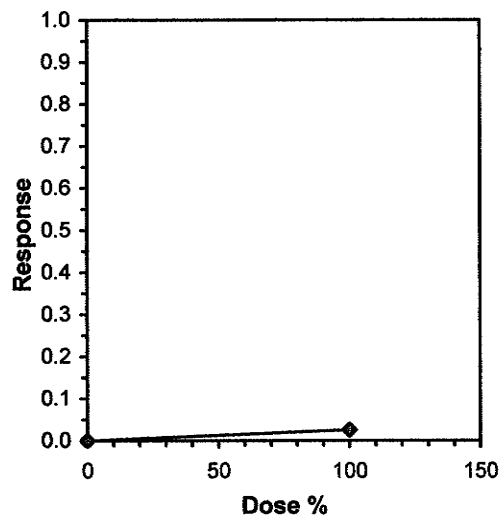
Conc-%	1	2	3	4
N Control	0.9000	1.0000	1.0000	1.0000
100	1.0000	0.9000		

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%	N				Mean	N-Mean
N Control	0.9750	1.0000	1.3713	1.2490	1.4120	5.942	4				0.9750	1.0000
100	0.9500	0.9744	1.3305	1.2490	1.4120	8.661	2	0.516	2.132	0.1682	0.9500	0.9744

Auxiliary Tests	Statistic		Critical	Skew	Kurt	
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.82308		0.713	-0.9	-1.175	
F-Test indicates equal variances (p = 0.50)	2		55.5519			
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	0.08995	0.09363	0.00221	0.0083	0.63281	1, 4
Treatments vs N Control						

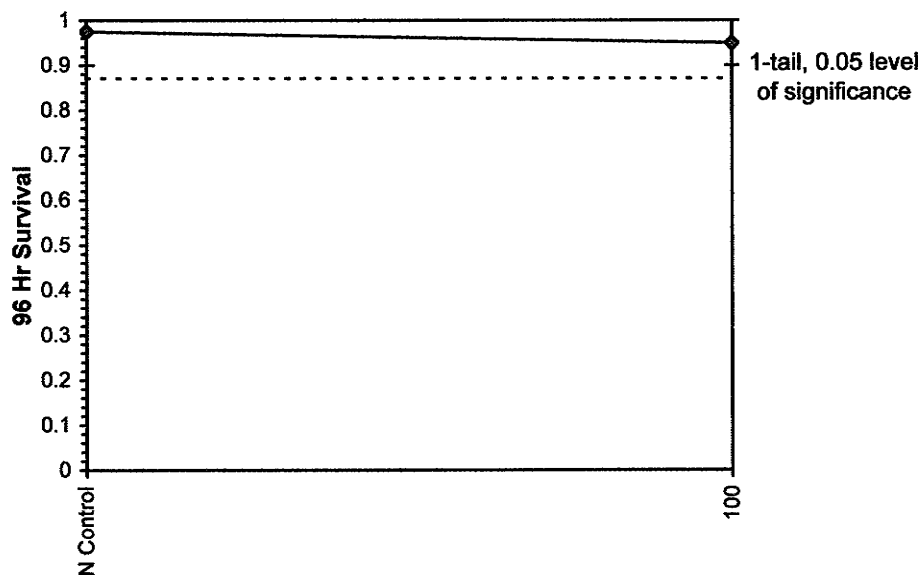
Linear Interpolation (200 Resamples)				
Point	%	SD	95% CL(Exp)	Skew

IC05	>100
IC10	>100
IC15	>100
IC20	>100
IC25	>100
IC40	>100
IC50	>100



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Dose-Response Plot

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Auxiliary Data Summary

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.00	24.00	24.00	0.00	0.00	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	8.00	7.90	8.10	0.10	3.95	3
100		7.93	7.80	8.10	0.15	4.93	3
N Control	DO mg/L	6.97	6.10	7.50	0.76	12.49	3
100		7.40	6.10	8.60	1.25	15.13	3
N Control	Hardness mg/L	86.67	80.00	90.00	5.77	2.77	3
100		182.00	182.00	182.00	0.00	0.00	3
N Control	Cond-umhos	354.00	346.00	361.00	7.55	0.78	3
100		1411.00	1390.00	1425.00	18.52	0.30	3
N Control	Alkalinity mg/L	60.00	60.00	60.00	0.00	0.00	3
100		250.00	250.00	250.00	0.00	0.00	3
