



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

January 24, 2008

Mr. Stephen Nowak  
Calscience Environmental  
7440 Lincoln Way  
Garden Grove, CA 92841-1432

Dear Mr. Nowak:

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:	Calscience Environmental
SAMPLE I.D.:	6-MC2800
DATE RECEIVED:	15 Jan - 08
ABC LAB. NO.:	CSE0108.202

**96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY**

LC50	=	100 % Survival in 100 % Sample
TU(a)	=	0.00

Yours very truly,

  
Thomas (Tim) Mikel  
Laboratory Director

### Larval Fish Growth and Survival Test-96 Hr Survival

Start Date: 1/15/2008	Test ID: CSE0108202	Sample ID: CA0000000
End Date: 1/19/2008	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 1/15/2008	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas
Comments: Treated Water-010808_M (08-01-0417)		

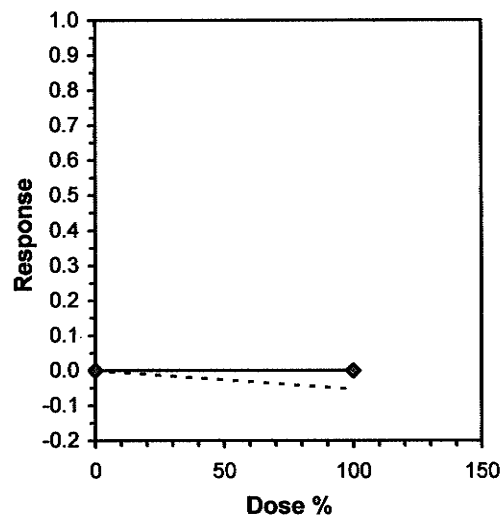
Conc-%	1	2	3	4
N Control	0.9000	1.0000	0.9000	1.0000
100	1.0000	1.0000		

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	0.9500	1.0000	1.3305	1.2490	1.4120	7.072	4				0.9750	1.0000
100	1.0000	1.0526	1.4120	1.4120	1.4120	0.000	2	-1.155	2.132	0.1504	0.9750	1.0000

Auxiliary Tests	Statistic		Critical	Skew	Kurt	
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	0.85322		0.713	0	-1.875	
Equality of variance cannot be confirmed						
Hypothesis Test (1-tail, 0.05)	MSDu	MSDp	MSB	MSE	F-Prob	df
Homoscedastic t Test indicates no significant differences	0.08841	0.09372	0.00885	0.00664	0.3125	1, 4
Treatments vs N Control						

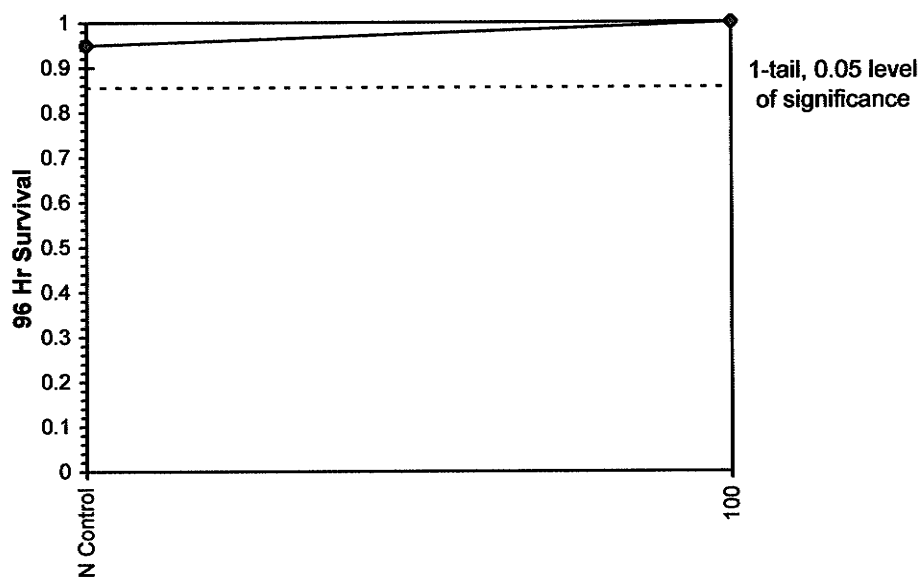
Linear Interpolation (200 Resamples)				
Point	%	SD	95% CL(Exp)	Skew

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**


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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	8.17	8.00	8.30	0.15	4.79	3
100		8.17	8.10	8.20	0.06	2.94	3
N Control	DO mg/L	7.69	7.30	8.40	0.62	10.23	3
100		7.33	6.00	8.00	1.15	14.65	3
N Control	Hardness mg/L	97.33	94.00	99.00	2.89	1.75	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Cond-umhos	339.67	334.00	345.00	5.51	0.69	3
100		1588.00	1581.00	1595.00	7.00	0.17	3
N Control	Alkalinity mg/L	66.67	62.00	69.00	4.04	3.02	3
100		250.00	250.00	250.00	0.00	0.00	3

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