



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

July 7, 2008

Mr. Ranjit Clarke  
Calscience Environmental  
7440 Lincoln Way  
Garden Grove, CA 92841-1432

Dear Mr. Clarke:


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: | 1 July - 08                            |
| ABC LAB. NO.:  | CSE0708.005                            |

**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: 7/2/2008  | Test ID: CSE0708005        | Sample ID: CA0000000                 |
| End Date: 7/6/2008    | Lab ID: CAABC              | Sample Type: EFF1-POTW               |
| Sample Date: 7/1/2008 | Protocol: EPA-821-R-02-012 | Test Species: PP-Pimephales promelas |
| Comments: 6-MC2800    |                            |                                      |

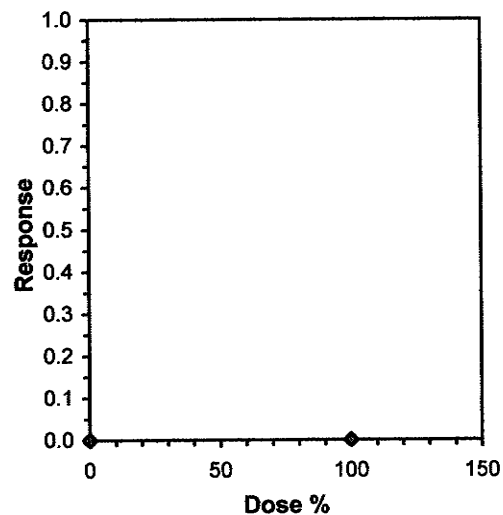
| Conc-%    | 1      | 2      | 3      | 4      |
|-----------|--------|--------|--------|--------|
| N Control | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| 100       | 1.0000 | 1.0000 |        |        |

| Conc-%    | Transform: Arcsin Square Root |        |        |        |        |       |   | Isotonic |        |
|-----------|-------------------------------|--------|--------|--------|--------|-------|---|----------|--------|
|           | Mean                          | N-Mean | Mean   | Min    | Max    | CV%   | N | Mean     | N-Mean |
| N Control | 1.0000                        | 1.0000 | 1.4120 | 1.4120 | 1.4120 | 0.000 | 4 | 1.0000   | 1.0000 |
| 100       | 1.0000                        | 1.0000 | 1.4120 | 1.4120 | 1.4120 | 0.000 | 2 | 1.0000   | 1.0000 |

| Auxiliary Tests  | Statistic | Critical | Skew | Kurt |
|--|-----------|----------|------|------|
| Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ ) | 1         | 0.713    |      |      |
| Equality of variance cannot be confirmed                         |           |          |      |      |

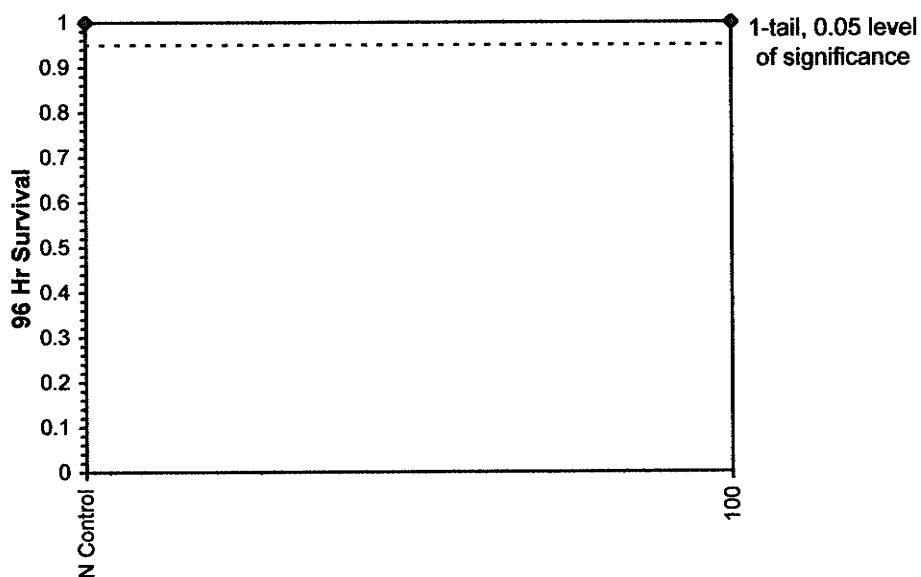
#### Linear Interpolation (200 Resamples)

| Point | %    | SD | 95% CL(Exp) | Skew |
|-------|------|----|-------------|------|
| IC05  | >100 |    |             |      |
| IC10  | >100 |    |             |      |
| IC15  | >100 |    |             |      |
| IC20  | >100 |    |             |      |
| IC25  | >100 |    |             |      |
| IC40  | >100 |    |             |      |
| IC50  | >100 |    |             |      |



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

|                       |                            |                                      |
|-----------------------|----------------------------|--------------------------------------|
| Start Date: 7/2/2008  | Test ID: CSE0708005        | Sample ID: CA0000000                 |
| End Date: 7/6/2008    | Lab ID: CAABC              | Sample Type: EFF1-POTW               |
| Sample Date: 7/1/2008 | Protocol: EPA-821-R-02-012 | Test Species: PP-Pimephales promelas |
| Comments: 6-MC2800    |                            |                                      |

**Dose-Response Plot**

---

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


---

|                       |                            |                                      |
|-----------------------|----------------------------|--------------------------------------|
| Start Date: 7/2/2008  | Test ID: CSE0708005        | Sample ID: CA0000000                 |
| End Date: 7/6/2008    | Lab ID: CAABC              | Sample Type: EFF1-POTW               |
| Sample Date: 7/1/2008 | Protocol: EPA-821-R-02-012 | Test Species: PP-Pimephales promelas |
| Comments: 6-MC2800    |                            |                                      |

---

**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              | 7.93    | 7.80    | 8.10    | 0.15  | 4.93  | 3 |
| 100       |                 | 8.00    | 7.90    | 8.10    | 0.10  | 3.95  | 3 |
| N Control | DO mg/L         | 6.63    | 6.00    | 7.10    | 0.57  | 11.37 | 3 |
| 100       |                 | 7.10    | 5.80    | 8.40    | 1.30  | 16.06 | 3 |
| N Control | Hardness mg/L   | 88.67   | 80.00   | 93.00   | 7.51  | 3.09  | 3 |
| 100       |                 | 250.00  | 250.00  | 250.00  | 0.00  | 0.00  | 3 |
| N Control | Cond-umhos      | 346.67  | 342.00  | 355.00  | 7.23  | 0.78  | 3 |
| 100       |                 | 1658.00 | 1619.00 | 1685.00 | 34.60 | 0.35  | 3 |
| N Control | Alkalinity mg/L | 62.67   | 60.00   | 64.00   | 2.31  | 2.43  | 3 |
| 100       |                 | 250.00  | 250.00  | 250.00  | 0.00  | 0.00  | 3 |

---