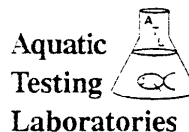


LABORATORY REPORT



Date: November 3, 1998

Client: Paradigm International, Inc.
17161 Gillette
Irvine, CA 92614
Attn: Timothy B. McDuffie

"dedicated to providing quality aquatic toxicity testing"

4350 Transport Street, Unit 107
Ventura, CA 93003
(805) 650-0546 FAX (805) 650-0756

CA DOHS ELAP Cert. No.: 1775

Laboratory No.: A-98102902-001
Sample I.D.: STARPOWER Super Cleaner/Degreaser™

Sample Control: The samples were received by ATL in a chilled state, with the chain of custody record attached.

Date Sampled: 10/28/98
Date Received: 10/29/98
Date Tested: 10/29/98 - 11/03/98

Sample Analysis: The following analyses were performed on your sample:

CCR Title 22 - Fathead Minnow Hazardous Waste Screen Bioassay (Polisini and Miller 1988).
Attached are the test data generated from the analysis of your sample.

Result Summary:

<u>ATL Lab No.</u>	<u>Sample ID.</u>	<u>Results</u>
A-98102902-001	STARPOWER	PASSED (LC50 > 750 mg/l)

Quality Control: Reviewed and approved by:

Joseph A. LeMay
Laboratory Director

FATHEAD MINNOW HAZARDOUS WASTE
SCREEN BIOASSAY



Lab No.: A98102902-001

Client/ID: Paradigm

TEST SUMMARY

Species: Pimephales promelas
Fish length (mm): av: 26; min: 25; max: 28.
Fish weight (gm): av: 30; min: 25; max: 37.
Test Protocol: Calif. F&G/DOHS 1988.
Test type: Static.
Test chamber volume 10 l.
Mixing method: Mechanical shaking.
Acclimation/dilution water: Reconstituted soft water.
Aeration: Single bubble through narrow-core tube.

Source: In Lab Culture
Date fish received:
Regulations: CCR Title 22.
Endpoints: LC50 at 96 hrs.
Temperature: 20 +/- 2°C.
Number of replicates: 2.
Number of fish per chamber: 10.
Water hardness: 40-48 mg/l CaCO₃.
QA/QC Batch No.: RT981009.

TEST DATA

DATE/TIME:	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
	°C	DO	pH	#D	°C	DO	pH	#D	°C	DO	pH	#D	°C	DO	pH	#D	°C	DO	pH	#D
10-30-98 1000	18.8	8.8	7.9	0	19.6	8.3	7.7	0	19.6	7.0	7.8	0	19.6	6.2	7.5	0	19.1	7.1	7.6	0
ANALYST:	LM				LM				JM				JM				LM			
CONTROL A	18.8	8.8	7.9	0	19.6	8.3	7.7	0	19.6	7.0	7.8	0	19.6	6.2	7.5	0	19.1	7.1	7.6	0
CONTROL B	19.0	8.8	7.9	0	19.4	8.5	7.7	0	19.6	6.7	7.8	0	19.6	2.1	7.5	0	19.6	7.9	7.6	0
400 mg/l A	18.9	9.0	8.2	0	19.6	8.1	7.7	0	19.8	0.7	7.6	0	19.6	6.0	7.3	0	19.7	6.8	7.4	0
400 mg/l B	18.9	8.9	8.2	0	19.5	7.4	7.7	0	19.6	8.1	7.7	0	19.5	7.6	7.5	0	19.6	8.0	7.5	0
750 mg/l A	18.8	8.9	8.5	0	19.4	2.7	7.7	0	19.8	8.1	7.7	0	19.6	6.6	7.4	0	19.5	6.7	7.4	0
750 mg/l B	18.8	8.9	8.5	0	19.4	2.4	7.7	0	19.5	7.7	7.7	0	19.9	7.6	7.6	0	19.5	7.6	7.4	0

Comments:

	CONTROL		HIGH CONCENTRATION	
	Alkalinity	Hardness	Alkalinity	Hardness
Initial	32 mg/l	41 mg/l	34 mg/l	40 mg/l
Final	34 mg/l	40 mg/l	36 mg/l	40 mg/l

Total Number Dead	
CONTROL	0 / 20
400 mg/l	0 / 20
750 mg/l	0 / 20

RESULTS

X	PASSED	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
—	FAILED	≥40% dead in 750 (Definitive Test Recommended)
—	FAILED	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)