

CURRAGH RESOURCES

2-41-100-077-87010

96-h STATIC LC50 BIOASSAY RESULTS OF X5

SAMPLE TAKEN: UNKNOWN SAMPLE pH 7.6  
SAMPLE RECEIVED: Nov 30, 1987 SAMPLE D.O. 8.8 mg/l  
TEST STARTED: Dec 1, 1987 SAMPLE CONDUCTANCE 550 umho/cm

THE 96-h LC50 FOR THIS SAMPLE WAS >100 %v/v

	INIT pH	FINAL pH	INIT DO mg/l	FINAL DO mg/l	TEST CONC %v/v	PERCENT SURVIVAL			
						24h	48h	72h	96h
SAMPLE	7.6	7.5	9.4	9.4	100.0	100	100	100	100
CONTROL	6.1	6.2	9.8	10.2		100	100	100	100

TEST CONDITIONS

Bioassays conducted according to STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTE WATER, 15th edition, 1980 APHA - AWWA - WPCF.

Number of test fish 10 Test temperature (C) 15.0  
Test volume (liters) 10.0 Test solution pH not adjusted

TEST FISH

Juvenile Rainbow Trout (*Salmo gairdneri*)  
Acclimated to temperature 15.0 +/- 1 C.  
Weight 0.50 +/- 0.10 g Length 4.0 +/- 0.3 cm

Duplicate reference toxicant (sodium pentachlorophenate) bioassays were conducted in order to test the tolerance of the fish stock. These tests gave 96-h LC50 values of 107.5 ug/l (90, 120) and 91.2 ug/l (80, 120)

DILUTION WATER (Vancouver dechlorinated tap water)

Alkalinity (mg CaCO3/l) 3.0  
EDTA hardness (mg CaCO3/l) 5.0  
Total suspended solids (mg/l) <1.0  
Residual chlorine (mg/l) 0.002  
Conductance (umho/cm) 15

Other parameters available on request.

96-h LC50 is the 96-h lethal concentration for 50% mortality. Synonyms are TLM96 and 96-h TL50 (median tolerance limit). The 95% confidence limits are in parentheses. Values were calculated by computer following C.E. Stephens "Methods for Calculating an LC50" (ASTM STP 634. 1977).

ANALYST

B.C. RESEARCH