

Toxicity Test Analysis v0.3

2nd Run

B10

Rocky Shore test

(6 hours exposure and 72 hours recovery)

18/08/98

Reference: Fresh Kuwait Crude Oil, 4/96 :

Tank no.	no. dead	no. alive	no. in tank	%Mortality
1	6	14	20	30.0
2	7	12	19	36.8
3	5	15	20	25.0
4	6	13	19	31.6
5	12	8	20	60.0
Total	36	62	98	36.73

Chi-squared 6.451
d.f. 4
p-value for chi-squared test 0.265

Testing at 5% significance level,
Reference tanks are HOMOGENEOUS

Test Treatment: Corexit EC9500 (495) :

2/3 , 10 %

Tank no.	no. dead	no. alive	no. in tank	%Mortality
11	14	6	20	70.0
12	19	1	20	95.0
13	16	4	20	80.0
14	15	5	20	75.0
15	14	6	20	70.0
Total	78	22	100	78.00

Chi-squared 5.012
d.f. 4
p-value for chi-squared test 0.286

Testing at 5% significance level,
Treatment tanks are HOMOGENEOUS

COMPARISON OF MORTALITY RATES

Reference %mortality 36.73
Treatment %mortality 78.00

D, Treatment %mortality - Reference %mortality 41.27

Standard error of D 6.39

95% Confidence Interval for D 28.7 to 53.8

H0: treatment mort. = reference mort. , H1: treatment mort. > reference mort.

Test statistic 6.45 p-value = 0.000

Treatment mortality > reference mortality
and INCREASE IS SIGNIFICANT at 5% significance level

Notes:

Reference notes appear here

Treatment notes appear here

Data entered by:

Checked by:

Date:

Date:

Toxicity Test Analysis v0.3

2nd Run

B100 Rocky Shore test (6 hours exposure and 72 hours recovery) 19/06/98

Reference: Fresh Kuwait Crude Oil, 4/98 :

Tank no.	no. dead	no. alive	no. in tank	%Mortality
1	6	14	20	30.0
2	7	12	19	36.8
3	5	15	20	25.0
4	6	13	19	31.6
5	12	8	20	60.0
Total	36	62	98	36.73

Chi-squared 6.451
 d.f. 4
 p-value for chi-squared test 0.265

Testing at 5% significance level,
 Reference tanks are **HOMOGENEOUS**

Test Treatment: Corexit EC9527 (496) :
 2/3 , 10 %

Tank no.	no. dead	no. alive	no. in tank	%Mortality
11	11	9	20	55.0
12	11	9	20	55.0
13	12	8	20	60.0
14	15	5	20	75.0
15	7	13	20	35.0
Total	56	44	100	56.00

Chi-squared 6.656
 d.f. 4
 p-value for chi-squared test 0.155

Testing at 5% significance level,
 Treatment tanks are **HOMOGENEOUS**

COMPARISON OF MORTALITY RATES

Reference %mortality 36.73
 Treatment %mortality 56.00

D, Treatment %mortality - Reference %mortality 19.27

Standard error of D 6.95

95% Confidence interval for D 5.6 to 32.9

H0: treatment mort. = reference mort. , H1: treatment mort. > reference mort.

Test statistic 2.77 p-value = 0.003

**Treatment mortality > reference mortality
 and INCREASE IS SIGNIFICANT at 5% significance level**

Notes:
 Reference notes appear here
 Treatment notes appear here
 Data entered by:
 Date:

Checked by:
 Date:

Toxicity Test Analysis v0.3

1st Run

B100

Rocky Shore test

(6 hours exposure and 72 hours recovery)

08/06/88

Reference: Fresh Kuwait Crude Oil, 4/98 :

Tank no.	no. dead	no. alive	no. in tank	%Mortality
1	8	12	20	40.0
2	6	14	20	30.0
3	17	3	20	85.0
4	8	12	20	40.0
5	10	10	20	50.0
Total	49	51	100	49.00

Chi-squared 14.566
 d.f. 4
 p-value for chi-squared test 0.012
 Testing at 5% significance level,
 Reference tanks are NOT HOMOGENEOUS

Test Treatment: Corexit EC9527 (496) :
 2/3 , 10 %

Tank no.	no. dead	no. alive	no. in tank	%Mortality
11	15	5	20	75.0
12	11	9	20	55.0
13	15	5	20	75.0
14	12	8	20	60.0
15	11	9	20	55.0
Total	64	36	100	64.00

Chi-squared 3.646
 d.f. 4
 p-value for chi-squared test 0.456
 Testing at 5% significance level,
 Treatment tanks are HOMOGENEOUS

COMPARISON OF MORTALITY RATES

Reference %mortality 49.00
 Treatment %mortality 64.00

D, Treatment %mortality - Reference %mortality 15.00

Standard error of D 6.93

95% Confidence interval for D 1.4 to 28.6

H0: treatment mort. = reference mort. , H1: treatment mort. > reference mort.

Test statistic 2.16 p-value = 0.015

Treatment mortality > reference mortality
 and INCREASE IS SIGNIFICANT at 5% significance level

TEST INVALID: Reference tanks are not homogeneous

Notes:

Reference notes appear here
 Treatment notes appear here

Data entered by:
 Date:

Checked by:
 Date:

Toxicity Test Analysis v0.3

1st Run

B100 Rocky Shore test (6 hours exposure and 72 hours recovery) 06/06/98

Reference: Fresh Kuwait Crude Oil, 4/98 :

Tank no.	no. dead	no. alive	no. in tank	%Mortality
1	8	12	20	40.0
2	6	14	20	30.0
3	17	3	20	85.0
4	8	12	20	40.0
5	10	10	20	50.0
Total	49	51	100	49.00

Chi-squared 14.566
 d.f. 4
 p-value for chi-squared test 0.012

Testing at 5% significance level,
 Reference tanks are **NOT HOMOGENEOUS**

Test Treatment: Corexit EC9500 (495) :
 2/3 , 10 %

Tank no.	no. dead	no. alive	no. in tank	%Mortality
6	17	3	20	85.0
7	15	5	20	75.0
8	18	2	20	90.0
9	17	3	20	85.0
10	17	3	20	85.0
Total	84	16	100	84.00

Chi-squared 1.786
 d.f. 4
 p-value for chi-squared test 0.775

Testing at 5% significance level,
 Treatment tanks are **HOMOGENEOUS**

COMPARISON OF MORTALITY RATES

Reference %mortality 49.00
 Treatment %mortality 84.00

D, Treatment %mortality - Reference %mortality **35.00**

Standard error of D 6.20

95% Confidence interval for D 22.8 to 47.2

H0: treatment mort. = reference mort. , H1: treatment mort. > reference mort.

Test statistic 5.65 p-value = 0.000

Treatment mortality > reference mortality
 and INCREASE IS SIGNIFICANT at 5% significance level

TEST INVALID: Reference tanks are not homogeneous

Notes:
 Reference notes appear here

Data entered by:
 Date:

Checked by:
 Date: