

To D.J.Emery; A.K.Campbell; H.E.Pawson;  
From W.L.Richardson M.E.Lane; File

Date March 13, 1972

Ref.

Subject Aerial Arsenic Monitoring

Tests carried out: January 28th to March 2nd, 1972

January 31st to March 9th, 1972 ( 2 mile  
north - 1 mile east)

One Mile Radius of Stack:

North	0.435 mgr. in 34 days)	
South	0.513 mgr. in 34 days)	Average: 0.01826 mgr./day
East	1.049 mgr. in 39 days)	

Arsenic Fallout: 0.00823 lbs./acre/day

Two Mile Radius of Stack:

North	0.756 mgr. in 39 days)	
South	0.809 mgr. in 34 days)	Average: 0.02242 mgr./day
East	0.819 mgr. in 34 days)	

Arsenic Fallout: 0.01010 lbs./acre/day

WLR/mw

W. L. Richardson  
W.L. Richardson  
Mill Chemist

MONTH OF 2 HAREN

# AERIAL ARSENIC

LOCATION	VOL.	PHOTO	PPM	Hgr.	TOT Hgr.
1 MILE NORTH	1500	15.25	.0725	.0145	.435
SOUTH	1100	24.5	.1165	.0233	.513
EAST	1900	29.0	.1380	.0276	1.049
2 MILE NORTH	1500	26.5	.1126	.0252	.756
SOUTH	1700	25.0	.119	.0238	.809
EAST	1600	27.0	.128	.0256	.819

TEST CARRIED OUT JAN 28 TH TO MAR 2ND (1 MILE NORTH AND SOUTH  
2 MILE SOUTH AND EAST)  
JAN 31 ST TO MAR 9TH (2 MILE NORTH  
1 MILE EAST)

## ONE MILE RADIUS OF STACK:

NORTH	0.435 Hgr	in	34 DAYS = .01279 Hgr/day	} AVERAGE .01826 Hgr/day
SOUTH	0.513 Hgr	in	34 DAYS = .01509	
EAST	1.049 Hgr	in	34 DAYS = .02690	

$$\text{ARSENIC FALLOUT: } \frac{.01826 \times 6272640}{1000 \times 453.6 \times 30.68} = .00823 \text{ Lbs/acre/day}$$

## TWO MILE RADIUS OF STACK:

NORTH	.756 Hgr	in	34 DAYS = .01938 Hgr/day	} .02242 Hgr/day
SOUTH	.809 Hgr	in	34 DAYS = .02379 Hgr/day	
EAST	.819 Hgr	in	34 DAYS = .02409 Hgr/day	

$$\text{ARSENIC FALLOUT: } \frac{.02242 \times 6272640}{1000 \times 453.6 \times 30.68} = .01010 \text{ Lbs/acre/day}$$

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