



STATE OF ARKANSAS
DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY
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July 16, 1992

To: Jacksonville City Council and Jacksonville Citizens
Information Committee Members

From: Mark McCorkle^{MM}
Engineer, Air Division

Re: Vertac Drummed Waste Incineration Project
Ambient Air Monitoring for Dioxins and Furans

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The Environmental Protection Agency has released new data from the ambient air monitoring program that is being conducted in the vicinity of the Vertac site. The attached data describes the concentrations of dioxins and furans, reported as "Toxicity Equivalence Values", that were detected during seven monitoring periods in April and May, 1992. Toxicity Equivalence is a "weighting scheme" that is used to report the concentration of compounds of varying toxicity in terms of the most toxic compound. The data shows that, during the 21 days of monitoring, the detected concentrations of dioxins and furans were well below the EPA's "action levels" of 3.0 (average) and 5.5 (single sample) picograms per cubic meter. The incinerator was operating on 13 of the 21 days reported.

Additional data, used to arrive at the reported values, is available upon request. The results of future monitoring efforts will be forwarded to your attention when available.

If you have questions regarding this information, please contact the Department.

attachment

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Weekly Status Report

June 23, 1992

Vertac
Ambient Air Concentrations
Dioxin and Furan

Periods 74 - 95 Total Tetra Dioxin

Periods 96 - Total Dioxin/Furans as TEVa

Qtrly Report	Sampling Period	Start Date	Trailer (pg/m ³)	Weather (pg/m ³)	West (pg/m ³)	South (pg/m ³)	Water Tower (pg/m ³)	Gregory St (pg/m ³)
1	74	1-Jan	0.46	0.27	ND	ND	ND	0.072
	75	4-Jan	ND	ND	ND	ND	ND	ND
	76	7-Jan	ND	ND	ND	ND	ND	ND
	77	10-Jan	ND	NS	ND	ND	ND	ND
	78	13-Jan	ND	0.32	ND	ND	ND	ND
	79	16-Jan	0.42	0.29	0.48	0.36	0.64	0.48
	80	19-Jan	ND	ND	ND	ND	ND	ND
	81	22-Jan	ND	ND	ND	NS	ND	ND
	82	25-Jan	1.68	ND	ND	ND	ND	ND
	83	28-Jan	ND	ND	ND	ND	ND	ND
	84	31-Jan	ND	ND	ND	ND	ND	ND
	85	3-Feb	ND	ND	0.46	ND	ND	ND
	86	6-Feb	ND	ND	ND	ND	ND	ND
	87	9-Mar	ND	ND	ND	ND	0.35	ND

Weekly Report	Sampling Period	Start Date	Trailer (pg/m ³)	Weather (pg/m ³)	West (pg/m ³)	South (pg/m ³)	Water Tower (pg/m ³)	Gregory St (pg/m ³)
							Samp	Dup
1	87	9-Mar	ND	ND	ND	0.35	ND	ND
	88	12-Mar	ND	0.64	ND	ND	ND	ND
	89	15-Mar	ND	ND	ND	ND	ND	ND
	90	18-Mar	ND	ND	ND	ND	ND	ND

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Weekly Report	Sampling Period	Start Date	Trailer (pg/m ³)	Weather (pg/m ³)	West (pg/m ³)	South (pg/m ³)	Water Tower (pg/m ³)		Gregory St (pg/m ³)	Aug in Contr	Aug in Wind under way
							Samp	Dup			
2	91	18-Mar	ND	ND	ND	ND	ND	ND	ND	ND	ND
	92	21-Mar	ND	ND	ND	ND	0.33	ND	ND	ND	ND
	93	24-Mar	ND	ND	0.46	ND	ND	ND	ND	ND	ND
3	94	27-Mar	ND	ND	ND	ND	ND	ND	ND	ND	ND
	95	30-Mar	ND	ND	ND	ND	ND	ND	ND	ND	ND
4	96	2-Apr	0.114	0.137	0.063	0.069	0.101	0.098	0.570		
	97	5-Apr	0.029	0.049	0.069	0.057	0.057	0.126	0.032		
	98	24-Apr 2/	0.172	1.334	0.062	0.058	0.172	0.185	0.091		
5	99	24-27 Apr	0.011	0.023	0.009	0.067	0.007	0.008	0.008		
	100	27-30 Apr	0.016	0.029	0.006	0.014	0.014	0.008	0.010		
6	101	30-03 May	0.036	0.121	0.026	0.048	0.164	0.182	0.048		
	102	03-06 May	0.016	0.053	0.073	0.011	0.014	0.020	NS		

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