UNIVERSITY OF CALIFORNIA, DAVIS

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DEPARTMENT OF ENVIRONMENTAL TOXICOLOGY
DAVIS, CALIFORNIA 95616

August 31, 1987

Ms. Kimi Klein
Department of Food & Agriculture
1220 N Street, Room A149
Sacramento, CA

Dear Kimi:

Please find enclosed corrected tables for the Methyl Parathion Air Resources Board Report. Not included, but should be noted, is the change in Tables 9, 10, 13 and 14. The entry for Trowbridge dated 6/11/86 should be changed from a "less than" to "B" sample pump not working.

I apologize for any inconvenience. Please call me for any further assistance.

Michael M. McChesney
Staff Research Associate

MMM:gna
Klein.1

cc: J. N. Seiber
J. E. Woodrow
L. Baker, ARB
T. Parker, ARB

Table A. Summary of Air Concentrations of Methyl Parathion in Parts Per Trillion

	Maximum Positive	Second Highest Positive	Average Positive	Total # of Samples	# Above MDL[a]
Trowbridge	0.102	0.097	0.138	44	10
Robbins	0.067	0.046	0.039	37	10
Maxwell	2.39	2.00	0.760	60	42
Williams	2.02	0.517	0.388	38	25
Davis	<MDL	<MDL	<MDL	32	1
		Methyl Paraoxon			
Trowbridge	<MDL	<MDL	<MDL	44	0
Robbins	<MDL	<MDL	<MDL	37	0
Maxwell	0.495	0.310	0.183	60	25
Williams	0.112	0.097	0.089	38	15
Davis	<MDL	<MDL	<MDL	32	0

[a] MLD = Minimum Detection Limit. 0.02 ppt (0.2 ng/m^3) for methyl parathion and 0.05 ppt (0.5 ng/m^3) for methyl paraoxon

Table 11. Average Methyl Parathion Concentration
(ng/m^3)

DATE	TROWBRIDGE	ROBBINS	MAXWELL	WILLIAMS	DAVIS
5/8/86	<0.2	C	C	C	C
5/9/86	<0.2	C	C	C	C
5/10/86	<0.2	C	C	C	C
5/12/86	0.53	0.72	6.65	1.03	<0.2
5/13/86	1.05	0.50	25.67	4.69	<0.2
5/14/86	0.54	0.50	21.53	21.75	<0.2
5/15/86	<0.2	0.37	13.80	5.56	<0.2
5/19/86	<0.2	<0.2	14.90	5.31	<0.2
5/20/86	<0.2	<0.2(A)	5.01	5.22	<0.2
5/21/86	1.10	0.22	13.97	4.74	<0.2
5/22/86	<0.2	0.25	7.72	1.45	<0.2
5/27/86	<0.2	B	2.13	1.34	<0.2
5/28/86	<0.2	<0.2	5.73	1.82	<0.2
5/29/86	<0.2	<0.2	2.84	B	<0.2
5/30/86	<0.2	<0.2	1.43	C	<0.2
6/2/86	<0.2	<0.2	<0.2	<0.2	<0.2
6/3/86	<0.2	<0.2	<0.2	<0.2	<0.2
6/4/86	<0.2	<0.2	<0.2	<0.2	<0.2
6/5/86	<0.2	<0.2	<0.2	<0.2	<0.2
6/9/86	<0.2	<0.2	<0.2	<0.2	C
6/10/86	<0.2	<0.2	<0.2	0.32	C
6/11/86	B	<0.2	0.71	0.66	C
6/12/86	0.50	<0.2	0.23	0.34	C

A: One Replicate Only
B: No Sample; Equipment Malfunction
C: No Sample Taken

Table 12. Methyl Parathion Average
(Parts Per Trillion)

DATE	TROWBRIDGE	ROBBINS	MAXWELL	WILLIAMS	DAVIS
5/8/86	<0.019	C	C	C	C
5/9/86	<0.019	C	C	C	C
5/10/86	<0.019	C	C	C	C
5/12/86	0.049	0.067	0.619	0.096	<0.019
5/13/86	0.097	0.046	2.389	0.437	<0.019
5/14/86	0.050	0.046	2.004	2.024	<0.019
5/15/86	<0.019	0.034	1.284	0.517	0.018
5/19/86	<0.019	<0.019	1.387	0.494	<0.019
5/20/86	<0.019	<0.019(A)	0.466	0.486	<0.019
5/21/86	0.102	0.020	1.300	0.441	<0.019
5/22/86	<0.019	0.023	0.719	0.134	<0.019
5/27/86	<0.019	B	0.199	0.125	<0.019
5/28/86	<0.019	<0.019	0.533	0.169	<0.019
5/29/86	<0.019	<0.019	0.264	B	<0.019
5/30/86	<0.019	<0.019	0.133	C	<0.019
6/2/86	<0.019	<0.019	<0.019	<0.019	<0.019
6/3/86	<0.019	<0.019	<0.019	<0.019	<0.019
6/4/86	<0.019	<0.019	<0.019	<0.019	<0.019
6/5/86	<0.019	<0.019	<0.019	<0.019	<0.019
6/9/86	<0.019	<0.019	<0.019	<0.019	C
6/10/86	<0.019	<0.019	0.015	0.030	C
6/11/86	B	<0.019	0.066	0.061	C
6/12/86	0.046	<0.019	0.021	0.031	C

A: Only One Replicate
B: Equipment Malfunction
C: No Sample Taken

Table 15. Average Methyl Paraoxon Concentration
(ng/m^3)

DATE	TROWBRIDGE	ROBBINS	MAXWELL	WILLIAMS	DAVIS
5/8/86	<0.5	C	C	C	C
5/9/86	<0.5	C	C	C	C
5/10/86	<0.5	C	C	C	C
5/12/86	<0.5	<0.5	<0.5	<0.5	<0.5
5/13/86	<0.5	<0.5	2.32	1.14	<0.5
5/14/86	<0.5	<0.5	0.83	0.75	<0.5
5/15/86	<0.5	<0.5	4.9	0.87	<0.5
5/19/86	<0.5	<0.5	1.31	<0.5	<0.5
5/20/86	<0.5	<0.5(A)	0.68	0.93	<0.5
5/21/86	<0.5	<0.5	1.41	0.98	<0.5
5/22/86	<0.5	<0.5	3.07	<0.5	<0.5
5/27/86	<0.5	B	<0.5	<0.5	<0.5
5/28/86	<0.5	<0.5	1.15	0.72	<0.5
5/29/86	<0.5	<0.5	0.65	B	<0.5
5/30/86	<0.5	<0.5	0.30	C	<0.5
6/2/86	<0.5	<0.5	<0.5	<0.5	<0.5
6/3/86	<0.5	<0.5	<0.5	<0.5	<0.5
6/4/86	<0.5	<0.5	<0.5	<0.5	<0.5
6/5/86	<0.5	<0.5	<0.5	<0.5	<0.5
6/9/86	<0.5	<0.5	<0.5	<0.5	C
6/10/86	<0.5	<0.5	<0.5	<0.5	C
6/11/86	B	<0.5	<0.5	<0.5	C
6/12/86	<0.5	<0.5	<0.5	<0.5	C

A: One Replicate Only
B: No Sample; Equipment Malfunction
C: No Sample Taken

Table 16. Methyl Paraoxon PPT Average

	TROWBRIDGE	ROBBINS	MAXWELL	WILLIAMS	DAVIS
5/8/86	<0.05	C	C	C	C
5/9/86	<0.05	C	C	C	C
5/10/86	<0.05	C	C	C	C
5/12/86	<0.05	<0.05	<0.05	<0.05	<0.05
5/13/86	<0.05	<0.05	0.235	0.112	<0.05
5/14/86	<0.05	<0.05	0.084	0.074	<0.05
5/15/86	<0.05	<0.05	0.495	0.086	<0.05
5/19/86	<0.05	<0.05	0.132	<0.05	<0.05
5/20/86	<0.05	<0.05(A)	0.069	0.092	<0.05
5/21/86	<0.05	<0.05	0.142	0.097	<0.05
5/22/86	<0.05	<0.05	0.310	0.05	<0.05
5/27/86	<0.05	B	<0.05	<0.05	<0.05
5/28/86	<0.05	<0.05	0.118	0.071	<0.05
5/29/86	<0.05	<0.05	0.066	B	<0.05
5/30/86	<0.05	<0.05	<0.05	C	<0.05
6/2/86	<0.05	<0.05	<0.05	<0.05	<0.05
6/3/86	<0.05	<0.05	<0.05	<0.05	<0.05
6/4/86	<0.05	<0.05	<0.05	<0.05	<0.05
6/5/86	<0.05	<0.05	<0.05	<0.05	<0.05
6/9/86	<0.05	<0.05	<0.05	<0.05	C
6/10/86	<0.05	<0.05	<0.05	<0.05	C
6/11/86	B	<0.05	<0.05	<0.05	C
6/12/86	<0.05	<0.05	<0.05	<0.05	C

A: Only One Replicate
B: Equipment Malfunction
C: No Sample Taken

Table 17. Methyl Parathion Replicates, Averages and Standard Deviations For Maxwell Site (ng/m³)

DATE	A	B	C	AVG	STD
5/12/86	4.47	7.00	8.49	6.65	2.03
5/13/86	22.20	24.70	30.10	25.67	4.04
5/14/86	20.10	21.30	23.20	21.53	1.56
5/15/86	12.40	14.10	14.90	13.80	1.28
5/19/86	14.50	15.20	15.00	14.90	0.36
5/20/86	5.52	5.48	4.02	5.01	0.85
5/21/86	15.50	12.00	14.40	13.97	1.79
5/22/86	8.57	6.80	7.80	7.72	0.89
5/27/86	2.35	2.35	1.70	2.13	0.38
5/28/86	4.74	4.98	7.46	5.73	1.51
5/29/86	2.97	2.78	2.77	2.84	0.11
5/30/86	1.31	1.83	1.15	1.43	0.36
6/2/86	<0.2	<0.2	<0.2	---	---
6/3/86	<0.2	<0.2	<0.2	---	---
6/4/86	<0.2	<0.2	<0.2	---	---
6/5/86	<0.2	<0.2	<0.2	---	---
6/9/86	<0.2	<0.2	<0.2	---	---
6/10/86	<0.2	<0.2	0.47	---	---
6/11/86	0.710	0.712	0.705	0.71	0.00
6/12/86	<0.2	0.37	0.31	0.34	---

Table 18. Methyl Paraoxon Replicates, Averages, and Standard Deviations for Maxwell Site (ng/m³)

DATE	A	B	C	AVG	STD
5/12/86	<0.5	<0.5	<0.5	---	---
5/13/86	1.80	2.50	2.65	2.31	0.45
5/14/86	0.53	0.85	1.10	0.82	0.28
5/15/86	7.79	<0.5	6.91	4.90	4.26
5/19/86	1.41	0.51	2.01	1.71	0.76
5/20/86	0.72	0.82	0.50	0.68	0.16
5/21/86	1.86	<0.5	2.36	1.41	1.24
5/22/86	2.97	2.34	3.89	3.06	0.78
5/27/86	<0.5	<0.5	<0.5	---	---
5/28/86	1.68	1.76		1.72	---
5/29/86	0.61	0.69	0.64	0.65	0.04
5/30/86	<0.5	<0.5	0.91	---	---
6/2/86	<0.5	<0.5	<0.5	---	---
6/3/86	<0.5	<0.5	<0.5	---	---
6/4/86	<0.5	<0.5	<0.5	---	---
6/5/86	<0.5	<0.5	<0.5	---	---
6/9/86	<0.5	<0.5	<0.5	---	---
6/10/86	<0.5	<0.5	<0.5	---	---
6/11/86	<0.5	<0.5	<0.5	---	---
6/12/86	<0.5	<0.5	<0.5	---	---