

US EPA ARCHIVE DOCUMENT

ACC 264 880A

3/24/80

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

BIOLOGICAL REPORT OF ANALYSIS

1. SAMPLE NO. M 123027
2. DATE COLLECTED N/A
3. REGION

SAMPLE IDENTIFICATION

4. LOT OR CODE NO(S). Lot 414	5. EPA REGISTRATION NO. 239-2422	6. ESTABLISHMENT NO.
7. PRODUCT NAME Paraquat		
8. PRODUCER NAME AND ADDRESS (Include ZIP code) Chevron Chemical Company, Inc. Richmond, California		9. DEALER NAME AND ADDRESS (Include ZIP code)

10. PHYSICAL FORM	EMULS. CONC. WET. POWDER	PRESS. SPRAY AEROSOL	DUST BAIT	GRANULAR OTHER dark liquid
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11. INGREDIENTS
Paraquat dichloride (1,1'-dimethyl-4,4' bipyridinium dichloride) 29.1%

TEST

12. TYPE OF TEST Static Jar Test #2434	13. TEST ORGANISM(S) Rainbow trout (<i>Salmo gairdneri</i>) Average wt: 0.39 gms. Source: Wytheville National Fish Hatchery	14. METHOD NO. TSD 1.206
		15. DURATION 96 hrs
		16. CONCENTRATION 30 to 600 ppm
		17. DILUENT water

18. SUMMARY

24 hr LC50 132.6 ppm. 95% confidence interval 54.3 to 323.5 ppm.
48 hr LC50 56.6 ppm. 95% confidence interval 45 to 71.2 ppm.
96 hr LC50 38.68 ppm. 95% confidence interval 38 to 39.3 ppm.

19. RESULTS

Concentration in microliters/liter (total formulation)
Percent mortality given below

Time	600	360	216	130	80	50	30	C
24 hr	100	90	50	30	30	20	C	C
48 hr	100	100	100	100	90	50	0	0
96 hr	100	100	100	100	100	90	10	0

20. TESTER'S INITS.	21. SIGNATURE OF LAB SUPERVISOR	22. LABORATORY Terrestrial & Aquatic Biology	23. DATE 3/24/80
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	WET. POWDER	AEROSOL	BAIT	X OTHER dark liquid

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NAME AND TITLE OF EPA OFFICIAL
Sec. 9(a) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended (7 U.S.C. 136g) requires that a copy of the analysis of any sample collect in connection with the enforcement of the Act be furnished promptly to the owner, operator or agent in charge of the establishment where the sample was collected. This section of the Act is quoted on the reverse of this form.
The information contained in this report should not be used in the labeling, advertising, or other promotion of the product analyzed.
Additional information regarding results of analysis may be obtained from the individual listed below.

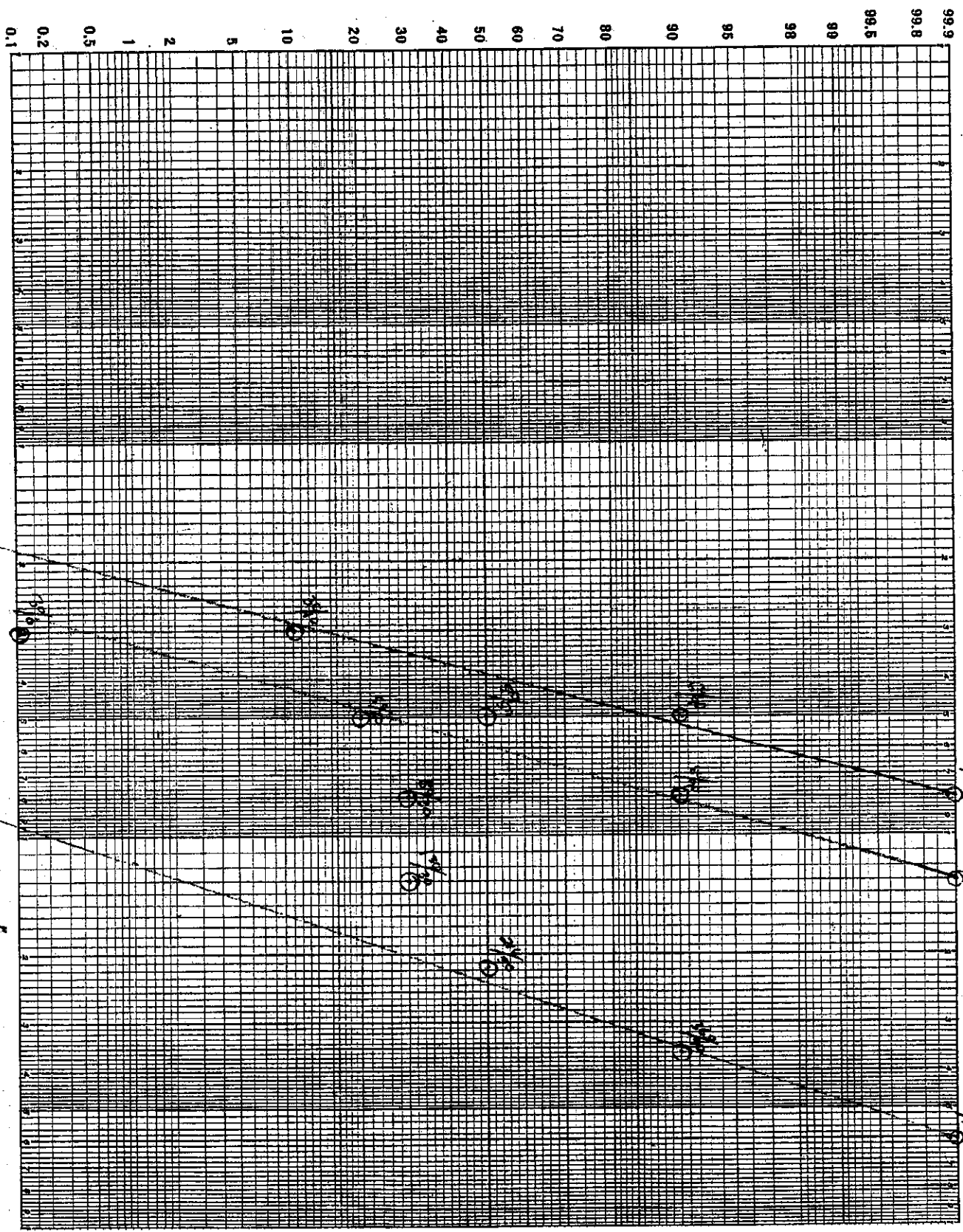
NAME AND TITLE OF EPA OFFICIAL		ADDRESS OF REGIONAL OFFICE (Include ZIP code)	
PHONE NO.	DATE		

2

24 hr
48 hr
96 hr

RT
PARAC

3



SAMPLE NO. 1	SAMPLE NAME	% ACTIVE	REQUESTER	TIME DOSED	DATE DOSED
123027	PARRAQUAT			10:00	2/25/80
DILUTION WATER:	PH	TOTAL ALKALINITY (ppm CaCO ₃)	TOTAL HARDNESS (ppm CaCO ₃)	40	CONDUCTIVITY (µmhos/cm)
	7.44	45			
TEST SYSTEM	STATIC JAR	TYPE TEST PERFORMED	24 HR LASO RT	TEST CHAMBER VOLUME (LITERS)	19.1
STOCK SOLUTIONS	SOLVENT	TEST CONCENTRATIONS	NUMBER OF FISH PER JAR	10	DILUENT VOLUME
SS I	DIRECT APPLICATION	VESSEL NO.	1	2	3
SS II		CONC. PP M	600	360	216
SS III		ALLOQUOT (ML)	9.0	5.4	3.25
SS IV		STOCK SOL. #	DIRECT		1.95
SS V					1.2
					75
					145
					0
					0

0-HOUR 24-HOUR 48-HOUR 72-HOUR 96 HOUR NO DISCERNABLE

DATE	TIME	DATA BY:	CONT. TEMP. °C	CONT. TEMP. °C	CONT. TEMP. °C	CONT. TEMP. °C	CONT. TEMP. °C
2/25/80	10:15		9.0	8.1	13.0	10:00	9.0
2/26/80	10:00		9.0	9.6	13.0	10:00	9.0
2/27/80	10:00	ZAN	9.0	9.6	13.0	10:00	9.0
2/28/80	10:00	DAN	9.0	9.6	13.0	10:00	9.0
1/6/80			11.2	10.1	9.0		
2/3/80							
3/2/80			11.5	9.0			
4/1/80			11.8	8.9			
5/1/80		FISH	11.8	8.9			
6/1/80			11.5	8.8			
7/30/80			11.0	9.4			
8/1/80							