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United States Department of the Interior

FISH AND WILDLIFE SERVICE
ROCK ISLAND FIELD OFFICE (ES)
1830 Second Avenue, Second Floor
Rock Island, Illinois 61201

IN REPLY REFER TO:

February 7, 1986

Mr. Rodney Gaither
U.S. Environmental Protection
Agency
230 South Dearborn St.
Chicago, Illinois 60604

EPA Region 5 Records Ctr.



387279

Dear Rodney:

Enclosed are the results of water analyses for drinking water parameters on samples from Crab Orchard Lake and vicinity. Would you please have your water quality personnel review these data and in addition would you have them reviewed by CDC? The Service will draft a press release on the results after the data have been reviewed.

If you have any questions, please call me. Thanks.

The meeting on Crab Orchard has been rescheduled tentatively to the week of Feb 18-20.

Dick
Dick Ruelle
Fish and Wildlife Biologist

RECEIVED
FEB 10 1986
U.S. EPA, Region 5
HAZARDOUS WASTE MANAGEMENT GROUP
HAZARDOUS WASTE ENFORCEMENT GRP

TABLE 5
CRAB DORCHARD NATIONAL WILDLIFE REFUGE
SDWA - DRINKING WATER QUALITY ANALYSIS

PARAMETERS	UNITS	STANDARDS	Raw	Raw	Raw	REFUGE	MARION
			SDWA	REFUGE INTAKE	MARION INTAKE	MARION INTAKE	TREATED WATER
	ppm	ppm	ppm	ppm	ppm	ppm	ppm
PRIMARY INORGANIC CHEMICALS:							
ARSENIC	ppm	0.05	<0.01	<0.01	<0.01	<0.01	<0.01
BARIUM	ppm	1.0	(0.1	(0.1	(0.1	(0.1	(0.1
CADMIUM	ppm	0.010	(0.01	(0.01	(0.01	(0.01	(0.01
CHROMIUM	ppm	0.05	(0.01	(0.01	(0.01	(0.01	(0.01
FLUORIDE	ppm	1.4-2.4	0.28	0.31	0.21	0.15	0.34
LEAD	ppm	0.05	(0.01	(0.01	(0.01	(0.01	(0.01
MERCURY	ppm	0.002	(0.0005	(0.0005	(0.0005	(0.0005	(0.0005
NITRATE	ppm	10.0	0.46	0.5	17.1	0.05	0.18
SILVER	ppm	0.05	(0.01	(0.01	(0.01	(0.01	(0.01
SELENIUM	ppm	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SECONDARY INORGANIC CHEMICALS:							
CHLORIDE	ppm	250	11.	15.	6.0	15.	17.
COPPER	ppm	1.0	(0.01	(0.01	(0.01	(0.01	(0.01
IRON	ppm	0.3	(0.01	(0.01	(0.01	(0.01	(0.01
MANGANESE	ppm	0.05	0.05	0.04	(0.01	0.28	(0.01
SODIUM	ppm	—	19.	26.	17.	20.	17.
SULFATE	ppm	250	63.	106.	57.	112.	61.
ZINC	ppm	5.0	(0.01	(0.01	(0.01	(0.01	(0.01
CORROSIVITY	ppm	—	—	—	—	—	—
ORGANIC CHEMICALS:							
ENDRIN	ppb	0.2	(0.05	(0.05	(0.05	(0.05	(0.05
LINDANE	ppb	4.0	(0.05	(0.05	(0.05	(0.05	(0.05
METHOXYCHLOR	ppb	10.0 (100)	(0.5	(0.5	(0.5	(0.5	(0.5
TOXAPHENE	ppb	5.0	(0.5	(0.5	(0.5	(0.5	(0.5
2, 4-D	ppb	100.0	(2.0	(2.0	(2.0	(2.0	(2.0
2, 4, 5-TP SILVEX	ppb	10.0	(1.0	(1.0	(2.0	(2.1	(1.0

TABLE 5 (Cont'd)
 CRAB ORCHARD NATIONAL WILDLIFE REFUGE
 SDWA - DRINKING WATER QUALITY ANALYSIS

PARAMETERS	UNITS	SDWA STANDARDS	Raw		Raw		Raw	
			REFUGE INTAKE IN C.O. LAKE #3252	MARION INTAKE IN C.O. LAKE #3251	MARION INTAKE IN MARION RES. #3253	REFUGE TREATED WATER #3246	MARION TREATED WATER #3255	
OTHERS:								
CALCIUM	ppm	---	36.	53.	31.	48.	47.	
TOTAL DISSOLVED SOLIDS	ppm	500	236.	376.	308.	266.	504.	
TOTAL ALKALINITY	ppm	---	74.	96.	36.	38.	36.	
pH	S.U.	6.5-8.5	7.2	7.1	6.2	7.0	8.	
NH3N	ppm	---	(0.01	(0.01	(0.01	(0.01	(0.01	
NO2N	ppm	---	(0.01	(0.01	0.01	(0.01	0.01	
TKN	ppm	---	2.1	1.6	0.5	0.5	1.8	
PCB	ppb	---	(10	(10	(10	(10	(10	