

Docket No. 40-8027

Fawley
"LICENSE AMENDMENTS"

11417

William O. Miller, License Fee Management Branch, ADM

MATERIALS LICENSE AMENDMENT CLASSIFICATION

Applicant: Ken Mc Gu
License No: 50B-1010 Fee Category: 2C
Application Dated: 12-7-78 Received: 12-13-78
Applicant's Classification: Administrative

The above application for amendment has been reviewed by NMSS in accordance with §170.31 of Part 170, and is classified as follows:

1. Safety and Environmental Amendments to Licenses in Fee Categories 1A through 1H, 2A, 2B, 2C, and 4A
 - (a) ☐ Major safety and environmental
 - (b) ☐ Minor safety and environmental
 - (c) ☐ Safety and environmental (Categories 1D through 1G only)
 - (d) ☒ Administrative
2. Justification for reclassification: _____

3. The application was filed (a) ☐ pursuant to written NRC request and the amendment is being issued for the convenience of the Commission, or (b) ☐ Other (State reason): _____

Signature W. S. (Krow)
Division of Fuel Cycle & Material
Safety

Date 12/14/78

8512160341 781214
PDR ADOCK 04008027
C PDR

FROM Kerr- McGee Nuclear Corporation		DATE OF DOCUMENT Dec. 12, 1978	DATE RECEIVED Dec 15, 1978	NO 11443
		LTR X	MEMO	OTHER
TO L. C. Rouse		ORIG 1	CC 5	OTHER
		ACTION NECESSARY <input type="checkbox"/>	CONCURRENCE <input type="checkbox"/>	DATE ANSWERED
		NO ACTION NECESSARY <input type="checkbox"/>	COMMENT <input type="checkbox"/>	BY
CLASSIF U	POST OFFICE REG NO:	FILE CODE 40-8027		
DESCRIPTION (Must Be Unclassified) additional information regarding admendment to the license		REFERRED TO	DATE	RECEIVED BY
		Reg File Cy	12/20	
		L. C. Rouse(2)		
		J. Martin(letter & Control)		
ENCLOSURES only six copies were recieved.		I & E (2)		
		PDR		
				11443
				jdh
REMARKS				

U. S. NUCLEAR REGULATORY COMMISSION

MAIL CONTROL FORM

FORM NRC 326
(1-75)



KERR-MCGEE NUCLEAR CORPORATION

KERR-MCGEE CENTER • OKLAHOMA CITY, OKLAHOMA 73125

December 12, 1978

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

W. T. Crow, Section Leader
Uranium Fuel Fabrication Section
Fuel Processing & Fabrication Branch
Division of Fuel Cycle & Material Safety
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Regulatory Docket File

Re: Docket 40-8027

Dear Mr. Crow:

Pursuant to your request that we furnish analytical data to justify our amendment request of March 10, 1978, to reduce sampling frequency at specified monitoring locations, the attached data is presented for your review. Please note that monitor well M-3 was inadvertently included in the request for reduced frequency; therefore, only 26 sampling locations are included in the attachment.

As two years previous results were requested, analytical data for calendar years 1976 and 1977 are tabulated for most sampling locations. However, analysis for eleven of the locations, which represent newer monitoring wells, did not begin until 1977; therefore, for those locations data for 1977 and 1978 through the third quarter are listed.

In evaluating the data prior to our original request, criteria such as contaminant levels, variations and trends were considered. Possible "outlier" values (i.e. gross alpha on #2301 and gross beta on #2313) were also taken into consideration. Several of the monitor wells are usually dry; this, too was taken into account.

Analytical results for all of the monitoring locations are closely and frequently evaluated with sampling frequency increased at the discretion of the environmental staff and facility personnel. For example, in the past monitor wells have had their sampling frequency increased from monthly to weekly based upon evaluation of analytical results. This same philosophy holds true for those locations which we request be reduced to quarterly or semi-annual sampling.

FEE EXEMPT

add'l info

11443

7812264178

RECEIVED

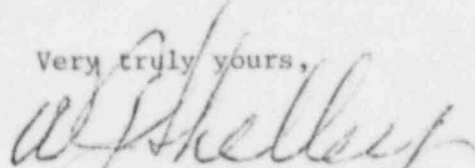
DEC 15 PM 1 51

W. T. Crow
U.S. Nuclear Regulatory Commission

Page Two

Should you desire additional information, please let us know.

Very truly yours,

A handwritten signature in dark ink, appearing to read "W. J. Shelley". The signature is fluid and cursive, with a long, sweeping underline that extends to the right.

W. J. Shelley, Director
Regulation and Control
Kerr-McGee Nuclear Corporation

WJS:ml

encl

Sampling Point 2203

	<u>NO₃(N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>ug/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	0.4	0.4	13.	<18.	< 7.	
Feb	0.6	0.7	13.	<18.	< 7.	
Mar	0.8	0.3	< 8.	<17.	< 7.	< 0.03
Apr	0.5	0.3	< 9.	<16.	7.	
May	0.2	0.3	< 9.	<16.	14.	
Jun	0.2	0.3	< 8.	<16.	< 7.	0.03
Jul	0.2	0.3	13.	<16.	20.	
Aug	0.4	1.2	< 8.	16.	7.	
Sept	0.5	0.3	< 8.	37.	18.	0.14
Oct	0.3	0.5	< 9.	<18.	7.	1.0
Nov	0.2	0.3	< 9.	<17.	7.	
Dec	0.2	0.5	< 9.	<17.	< 7.	
1977 - Jan	<0.1	0.5	< 9.	<17.	10.	
Feb	0.3	0.7	<10.	<18.	12.	
Mar	0.1	0.6	14.	<19.	9.	0.06
Apr	<0.1	0.3	<10.	<18.	8.	
May	0.3	0.1	<10.	<18.	< 7.	
Jun	0.2	0.4	15.	<18.	11.	0.04
Jul	0.2	0.3	<10.	<18.	< 7.	
Aug	0.2	1.0	13.	<18.	13.	
Sept	0.5	0.3	<10.	<18.	9.	0.03
Oct	0.3	0.3	<10.	<18.	< 7.	
Nov	0.6	0.2	<10.	<18.	< 7.	
Dec	0.9	0.3	10.	<18.	14.	0.12
Avg.	0.35	0.43	10.3	18.2	9.5	0.18
Max.	0.9	1.2	15.	37.	20.	1.0
Min.	<0.1	0.1	< 8.	<16.	< 7.	<0.03

Sampling Point 2204

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	0.4	0.3	37.	<18.	< 7.	
Feb	0.8	0.6	23.	<18.	< 7.	
Mar	0.5	0.3	< 8.	<17.	< 7.	<0.03
Apr	0.6	0.3	< 9.	<16.	< 7.	
May	0.2	0.3	< 9.	<16.	15.	
Jun	0.3	0.3	< 8.	<16.	12.	0.09
Jul	0.2	0.2	< 8.	<16.	13.	
Aug	0.4	0.9	< 8.	11.	< 7.	
Sept	0.3	<0.2	< 8.	19.	9.	2.1
Oct	0.3	0.5	< 9.	<18.	< 7.	0.16
Nov	0.3	0.2	< 9.	<17.	9.	
Dec	0.2	0.4	< 9.	<17.	12.	
1977 - Jan	<0.1	0.8	< 9.	<17.	7.	
Feb	0.2	0.5	<10.	<18.	< 7.	
Mar	0.2	0.6	<10.	<19.	< 7.	0.07
Apr	<0.1	0.3	<10.	<18.	< 7.	
May	0.4	0.1	<10.	<18.	< 7.	
Jun	0.3	0.4	14.	<18.	8.	0.06
Jul	0.2	0.7	<10.	<18.	12.	
Aug	0.3	0.2	<10.	<18.	16.	
Sept	0.4	0.3	<10.	<18.	19.	0.04
Oct	0.4	0.6	<10.	<18.	< 7.	
Nov	0.2	0.2	<10.	<18.	8.	
Dec	1.4	0.4	21.	<18.	12.	0.08
Avg.	0.36	0.40	11.6	17.3	9.5	0.33
Max.	1.4	0.9	37.	19.	19.	2.1
Min.	<0.1	<0.2	< 8.	11.	< 7.	<0.03

Sampling Point 2205

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	1.9	0.3	9.	<18.	< 7.	
Feb	4.5	1.3	13.	<18.	< 7.	
Mar	1.8	0.2	9.	<17.	15.	<0.04
Apr	1.4	0.2	< 9.	39.	< 7.	
May	0.4	0.2	< 9.	<16.	< 7.	
Jun	0.8	0.2	< 8.	<16.	< 7.	1.4
Jul	2.3	0.2	< 8.	<16.	< 7.	
Aug	1.0	0.9	< 8.	17.	9.	
Sept	1.4	<0.2	8.	<16.	15.	0.07
Oct	1.2	0.2	< 9.	<18.	8.	0.03
Nov	0.4	0.2	< 9.	<17.	< 7.	
Dec	0.7	0.4	< 9.	<17.	< 7.	
1977 - Jan						
Feb						
Mar	0.4	0.6	<10.	21.	< 7.	0.05
Apr						
May						
Jun	0.4	0.4	11.	<18.	< 7.	0.05
Jul	0.6	0.5	<10.	<18.	< 7.	
Aug						
Sept	0.6	0.3	27.	<18.	< 7.	0.07
Oct						
Nov						
Dec	1.5	0.3	29.	<18.	< 7.	<0.01
Avg.	1.2	0.39	11.5	18.7	8.1	0.22
Max.	4.5	1.3	29.	39.	15.	1.4
Min.	0.4	<0.2	< 8.	<16.	< 7.	<0.01

Sampling Point 2206

	<u>NO₃(N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Cross α</u> <u>pCi/l</u>	<u>Cross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	1.0	0.6	10.	25.	< 7.	
Feb	2.3	0.3	14.	<18.	< 7.	
Mar	0.2	0.3	< 8.	12.	< 7.	0.33
Apr	0.2	0.3	< 9.	21.	< 7.	
May	0.2	0.4	< 9.	<16.	11.	
Jun	0.8	0.2	< 8.	<16.	< 7.	0.05
Jul	0.1	0.2	< 8.	<16.	< 7.	
Aug	0.2	1.3	< 8.	23.	< 7.	
Sept	0.5	<0.2	< 8.	<16.	< 7.	0.14
Oct	0.3	0.2	< 9.	<18.	< 7.	0.06
Nov	0.2	0.2	< 9.	84.	7.	
Dec	0.2	0.3	< 9.	<17.	< 7.	
1977 - Jan						
Feb						
Mar	1.8	0.7	36.	38.	7.	0.07
Apr	0.6	0.5	15.	<18.	7.	0.06
May	0.1	1.4	<10.	<18.	< 7.	
Jun						
Jul						
Aug						
Sept	0.1	0.7	<10.	<18.	< 7.	0.01
Oct						
Nov						
Dec	1.0	0.4	10.	<18.	< 7.	0.02
Avg.	0.58	0.48	11.2	23.1	7.2	0.09
Max.	2.3	1.4	36.	84.	11.	0.33
Min.	0.1	<0.2	< 8.	12.	< 7.	0.01

Sampling Point 2208

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>µg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	0.2	0.2	17.	<18.	< 7.	
Feb	0.4	0.2	14.	<18.	< 7.	
Mar	0.3	<0.2	< 8.	<17.	< 7.	<0.03
Apr	0.3	0.3	< 9.	32.	< 7.	
May	0.4	0.3	< 9.	<16.	17.	
Jun	<0.1	0.2	11.	<16.	10.	0.05
Jul	0.1	<0.2	< 8.	<16.	< 7.	
Aug	0.2	0.8	< 8.	18.	< 7.	
Sept	0.2	<0.2	< 8.	<16.	< 7.	0.21
Oct	0.1	<0.2	< 9.	<18.	7.	0.07
Nov	0.1	<0.2	< 9.	<17.	< 7.	
Dec	<0.1	0.5	< 9.	<17.	17.	
1977 - Jan						
Feb						
Mar	0.1	0.6	<10.	< 19.	9.	0.03
Apr						
May						
Jun	0.2	0.3	15.	<18.	< 7.	0.01
Jul	0.4	0.3	<10.	<18.	< 7.	
Aug						
Sept	0.2	0.4	33.	<18.	62.	0.01
Oct						
Nov						
Dec	0.3	0.2	<10.	<18.	< 7.	0.01
Avg.	0.22	0.31	11.6	18.2	11.7	0.05
Max.	0.4	0.8	33.	32.	62.	0.21
Min.	<0.1	<0.2	< 8.	<16.	< 7.	0.01

Sampling Point 2209

	<u>NO₃(N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>ug/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	0.1	0.3	22.	18.	< 7.	
Feb	0.9	0.3	18.	< 18.	< 7.	
Mar	0.1	< 0.2	< 8.	< 23.	< 7.	< 0.03
Apr	0.2	0.2	< 9.	16.	< 7.	
May	0.1	0.2	< 9.	< 16.	15.	
Jun	< 0.1	0.3	< 8.	< 16.	15.	0.05
Jul	0.1	0.2	10.	19.	< 7.	
Aug	0.2	0.9	< 8.	24.	8.	
Sept	0.1	< 0.2	< 8.	18.	8.	0.04
Oct	0.2	< 0.2	< 9.	26.	< 7.	0.04
Nov	0.1	< 0.2	< 9.	< 17.	< 7.	
Dec	0.1	0.5	< 9.	< 17.	8.	
1977 - Jan						
Feb						
Mar	0.2	0.3	17.	47.	< 7.	0.02
Apr						
May						
Jun	0.2	0.3	31.	< 18.	< 7.	0.10
Jul	0.2	0.3	< 10.	< 18.	< 7.	
Aug						
Sept	0.1	0.4	< 10.	< 18.	16.	0.09
Oct						
Nov						
Dec	0.4	0.2	< 10.	< 18.	7.	0.04
Avg.	0.20	0.31	12.1	20.4	8.6	0.05
Max.	0.9	0.9	31.	47.	16.	0.10
Min.	< 0.1	< 0.2	< 8.	< 16.	< 7.	0.02

Sampling Point 2210

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	0.2	0.2	9.	<18.	< 7.	
Feb	0.3	0.6	13.	<18.	< 7.	
Mar	0.2	0.2	< 8.	<17.	< 7.	< 0.03
Apr	0.2	0.2	< 9.	<16.	< 7.	
May	0.1	0.3	< 9.	<16.	22.	
Jun	<0.1	0.2	< 8.	<16.	< 7.	0.03
Jul	0.1	0.2	< 8.	26.	< 7.	
Aug	0.4	0.8	< 8.	25.	< 7.	
Sept	0.2	<0.2	< 8.	<16.	11.	2.6
Oct	0.1	<0.2	< 9.	<18.	< 7.	0.24
Nov	0.1	<0.2	< 9.	<17.	< 7.	
Dec	0.1	0.4	< 9.	<17.	7.	
1977 - Jan						
Feb						
Mar	0.2	0.4	<10.	<19.	8.	0.03
Apr						
May						
Jun	0.1	0.3	<10.	< 18.	< 7.	0.02
Jul	0.1	0.5	<10.	< 18.	< 7.	
Aug						
Sept	<0.1	0.2	<10.	<18.	<7.	0.05
Oct						
Nov						
Dec	0.3	0.1	<10.	<18.	<7.	0.02
Avg.	0.17	0.31	9.2	18.3	8.2	0.38
Max.	0.4	0.8	13.	26.	22.	2.6
Min.	<0.1	0.1	< 8.	<16.	< 7.	0.02

Sampling Point 2301

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	7.5	0.8	24.	24.	23.	
Feb	9.5	0.9	26.	< 18.	33.	
Mar	9.0	0.7	< 8.	< 17.	33.	0.91
Apr	7.8	0.9	< 9.	< 16.	36.	
May	5.8	1.6	< 9.	< 16.	26.	
Jun	5.0	0.7	13.	< 16.	41.	0.07
Jul	0.3	0.9	32.	< 16.	67.	
Aug	0.2	1.3	14.	< 15.	29.	
Sept	1.7	1.8	18.	37.	19.	0.27
Oct	1.4	1.5	< 9.	< 18.	19.	0.18
Nov	0.6	1.5	< 9.	< 17.	34.	
Dec	4.0	2.0	< 9.	< 17.	22.	
1977 - Jan	5.6	2.0	< 9.	< 17.	16.	
Feb	6.8	2.0	21.	< 18.	16.	
Mar	2.6	2.2	54.	< 18.	14.	0.01
Apr	1.2	1.8	50.	20.	17.	
May	0.5	1.1	31.	< 18.	23.	
Jun	0.3	1.0	< 10.	< 18.	20.	0.01
Jul	1.0	1.4	17.	< 18.	86.	
Aug	0.2	4.4	440.	< 18.	33.	
Sept	-----DRY-----					
Oct	-----DRY-----					
Nov	-----DRY-----					
Dec	-----DRY-----					
Avg.	3.6	1.5	40.6	18.6	30.4	0.24
Max.	9.5	2.2	440.	37.	86.	0.91
Min.	0.2	0.7	< 8.	< 15.	14.	0.01

Sampling Point 2307

	<u>NO₃(N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	0.3	3.0	230.	54.	28.	
Feb	0.4	2.0	158.	< 18.	221.	
Mar	0.3	2.4	182.	113.	269.	<0.03
Apr	0.4	2.4	107.	36.	155.	
May	0.3	1.6	84.	87.	198.	
Jun	0.2	2.2	82.	43.	104.	<0.02
Jul	0.2	2.0	93.	< 16.	97.	
Aug	0.2	1.9	120.	50.	183.	
Sept	0.2	2.0	91.	41.	10.	<0.02
Oct	0.4	1.9	80.	< 18.	154.	0.01
Nov	0.3	2.1	89.	35.	89.	
Dec	1.2	0.7	27.	26.	56.	
1977 - Jan						
Feb						
Mar	0.3	1.9	35.	45.	16.	0.05
Apr						
May						
Jun	0.3	1.4	83.	< 18.	26.	0.01
Jul	0.3	1.5	32.	< 18.	39.	
Aug						
Sept	0.3	1.4	36.	< 18.	40.	0.05
Oct						
Nov						
Dec	0.3	1.8	60.	< 18.	69.	0.08
Avg.	0.35	1.9	93.5	38.5	103.2	0.03
Max.	1.2	3.0	230.	113.	269.	0.08
Min.	0.2	0.7	27.	< 16.	10.	0.01

Sampling Point 2310

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	16.5	1.5	22.	<18.	9.	
Feb	31.	0.8	9.	<18.	25.	
Mar	22.	0.5	< 8.	<17.	< 7.	< 0.03
Apr	21.	0.4	< 9.	<16.	7.	
May	5.0	0.8	< 9.	<16.	9.	
Jun	1.0	0.4	< 8.	<16.	< 7.	0.11
Jul	0.2	0.5	< 8.	<16.	< 7.	
Aug	1.7	2.1	9.	19.	8.	
Sept	15.	0.2	9.	27.	8.	4.9
Oct						
Nov	0.4	0.6	-	-	< 7.	
Dec	1.2	2.1	-	-	13.	
1977 - Jan						
Feb						
Mar						
Apr	0.5	0.6	204.	27.	34.	
May	-----DRY-----					
Jun	0.6	2.8	230.	<18.	< 7.	0.3
Jul	-----DRY-----					
Aug	-----DRY-----					
Sept	-----DRY-----					
Oct	-----DRY-----					
Nov	-----DRY-----					
Dec	-----DRY-----					
Avg.	8.9	1.0	47.7	18.9	11.4	1.3
Max.	31.	2.8	230.	27.	34.	4.9
Min.	0.2	0.2	<8.	<16.	< 7.	<0.03

Sampling Point 2311

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	1.1	1.0	17.	<18.	8.	
Feb	5.5	0.4	< 9.	<18.	15.	
Mar	3.0	0.3	< 8.	22.	13.	<0.03
Apr	3.4	<0.2	< 9.	<16.	< 7.	
May	2.2	0.5	< 9.	<16.	18.	
Jun	0.8	0.5	12.	<16.	< 7.	0.06
Jul	0.1	0.2	8.	<16.	34.	
Aug	0.2	0.9	< 8.	24.	9.	
Sept	0.3	0.2	< 8.	<16.	7.	0.82
Oct	2.7	0.2	11.	<18.	10.	0.34
Nov	0.3	0.3	< 9.	<17.	< 7.	
Dec	4.7	0.4	< 9.	<17.	< 7.	
1977 - Jan	1.9	0.5	37.	<17.	< 7.	
Feb	2.3	2.0	11.	<18.	< 7.	
Mar						
Apr	-----DRY-----					
May	-----DRY-----					
Jun	-----DRY-----					
Jul	-----DRY-----					
Aug	-----DRY-----					
Sept	-----DRY-----					
Oct	-----DRY-----					
Nov	-----DRY-----					
Dec	-----DRY-----					
Avg.	2.0	0.54	11.8	17.8	11.1	0.31
Max.	5.5	2.0	37.	24.	34.	0.82
Min.	0.1	<0.2	< 8.	<16.	< 7.	<0.03

Sampling Point 2313

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	0.4	0.4	26.	685.	19.	
Feb	13.	0.6	< 9.	< 18.	16.	
Mar	0.6	0.3	< 8.	25.	10.	< 0.03
Apr	0.5	0.2	< 9.	< 16.	< 7.	
May	0.4	0.5	< 9.	< 16.	13.	
Jun	0.5	0.2	< 8.	< 16.	13.	0.08
Jul	0.2	0.2	< 8.	< 16.	< 7.	
Aug	0.2	0.2	< 8.	22.	10.	
Sept	1.2	0.3	< 8.	27.	13.	0.15
Oct	2.7	0.3	< 9.	< 18.	< 7.	0.01
Nov	0.4	0.4	< 9.	< 17.	10.	
Dec	2.3	0.3	< 9.	< 17.	17.	
1977 - Jan	6.1	0.9	< 9.	< 17.	23.	
Feb	1.3	0.5	12.	< 18.	10.	
Mar						
Apr	33.	4.0	< 10.	< 18.	8.	
May	4.3	0.3	< 10.	< 18.	7.	
Jun	----- DRY -----					
Jul	----- DRY -----					
Aug	----- DRY -----					
Sept	----- DRY -----					
Oct	----- DRY -----					
Nov	----- DRY -----					
Dec	----- DRY -----					
Avg.	4.2	0.60	10.1	60.2	11.9	0.07
Max.	33.	4.0	26.	685.	23.	0.15
Min.	0.2	0.2	< 9.	< 16.	< 7.	0.01

Sampling Point 2316

	<u>NO₃(N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	0.7	1.0	14.	<18.	7.	
Feb	0.6	1.2	<9.	<18.	<7.	
Mar	0.6	0.3	<8.	<17.	10.	0.06
Apr	0.5	0.3	<9.	<16.	12.	
May	0.5	0.5	<9.	<16.	14.	
Jun	0.2	1.2	<8.	<16.	12.	0.08
Jul	0.7	0.4	10.	<16.	9.	
Aug	0.6	0.3	10.	38.	<7.	
Sept	0.5	0.3	<8.	19.	<7.	0.05
Oct	0.8	0.4	<9.	<18.	9.	0.09
Nov	0.7	0.4	10.	<17.	10.	
Dec	0.4	0.5	<9.	19.	11.	
1977 - Jan	1.0	0.4	12.	<17.	11.	
Feb	0.5	0.4	<10.	<18.	11.	
Mar	0.6	0.5	27.	<19.	7.	0.13
Apr	0.7	0.5	<10.	<18.	24.	
May	0.8	0.1	<10.	<18.	9.	
Jun	0.9	0.5	15.	<18.	7.	0.01
Jul	0.6	0.4	<10.	<18.	11.	
Aug	2.2	0.7	126.	<18.	30.	
Sept	0.9	0.3	68.	<18.	26.	0.09
Oct	0.6	0.3	<10.	<18.	18.	
Nov	0.5	0.3	<10.	<18.	14.	
Dec	0.3	0.4	37.	<18.	30.	0.05
Avg.	0.68	0.48	19.1	18.5	13.0	0.07
Max.	2.2	1.2	126.	38.	30.	0.13
Min.	0.2	0.1	<8.	<16.	<7.	0.01

Sampling Point 2319

	<u>NO₃(N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	0.9	0.4	28.	<18.	15.	
Feb	0.4	0.8	16.	<18.	29.	
Mar	0.9	0.5	18.	<17.	27.	0.10
Apr	0.4	0.4	9.	<16.	21.	
May	0.5	0.5	9.	20.	41.	
Jun	1.4	0.4	17.	<16.	25.	0.08
Jul	0.1	0.4	19.	<16.	59.	
Aug	0.1	0.2	14.	22.	24.	
Sept	0.4	0.5	15.	24.	26.	0.07
Oct	0.7	0.4	27.	<18.	51.	0.01
Nov	0.7	0.4	30.	<17.	37.	
Dec	0.8	0.5	27.	<17.	37.	
1977 - Jan	15.	0.5	19.	<17.	29.	
Feb	10.5	0.4	11.	<18.	17.	
Mar						
Apr	----- DRY -----					
May	----- DRY -----					
Jun	----- DRY -----					
Jul	----- DRY -----					
Aug	----- DRY -----					
Sept	----- DRY -----					
Oct	----- DRY -----					
Nov	----- DRY -----					
Dec	----- DRY -----					
Avg.	2.3	0.46	18.5	18.1	31.3	0.06
Max.	15.	0.8	30.	24.	59.	0.10
Min.	0.1	0.3	9.	<16.	15.	0.01

Sampling Point 2320

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1976 - Jan	23.	1.0	14.	< 18.	8.	
Feb	17.	0.8	< 9.	< 18.	< 7.	
Mar	22.	0.3	< 8.	< 17.	7.	0.10
Apr	22.	0.2	< 9.	< 16.	9.	
May	18.	0.3	< 9.	< 16.	13.	
Jun	20.	0.2	< 8.	< 16.	< 7.	0.05
Jul	24.	0.3	< 8.	< 16.	7.	
Aug	19.	0.2	< 8.	19.	< 7.	
Sept	14.	< 0.2	< 8.	< 16.	< 7.	0.09
Oct	18.	0.2	< 9.	< 18.	< 7.	0.03
Nov	17.	0.3	< 9.	< 17.	9.	
Dec	-	-	< 9.	19.	-	
1977 - Jan						
Feb						
Mar	24.	0.4	<10.	<19.	8.	0.02
Apr						
May						
Jun	24.	0.4	14.	<18.	< 7.	0.05
Jul						
Aug						
Sept	6.2	0.2	26.	<18.	< 7.	0.09
Oct						
Nov						
Dec	3.	0.3	<10.	<18.	< 7.	0.10
Avg.	18.1	0.35	10.5	17.4	8.4	0.07
Max.	24.	1.0	26.	19.	13.	0.10
Min.	3.	<0.2	< 8.	<16.	< 7.	0.02

Sampling Point M - 1

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Urenium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1977 - Jan	1.0				10.	
Feb	0.8				12.	
Mar	8.2				15.	
Apr	-----		Dry	-----		
May	-----		Dry	-----		
Jun	-----		Dry	-----		
Jul	-----		Dry	-----		
Aug	-----		Dry	-----		
Sept	-----		Dry	-----		
Oct	-----		Dry	-----		
Nov	-----		Dry	-----		
Dec	-----		Dry	-----		
1978 - Jan	-----		Dry	-----		
Feb	-----		Dry	-----		
Mar	24.	0.3	<10.	<18.	<7.	0.06
Apr	10.	0.2	<10.	<18.	<7.	
May	12.	0.3	<10.	<18.	12.	
Jun	10.				35.	
Jul						
Aug						
Sept	51.				<7.	
Oct						
Nov						
Dec						
Avg.	14.6	0.27	<10.	<18.	13.1	-----
Max.	51.	0.3	<10.	<18.	35.	-----
Min.	0.8	0.2	<10.	<18.	<7.	-----

Sampling Point M - 2

	<u>NO₃(N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1977 - Jan	4.8				15.	
Feb	0.2				46.	
Mar	8.2				11.	
Apr	5.4	0.6	<10.	<18.	16.	
May	4.0	0.1	15.	<18.	10.	
Jun	4.6	0.3	21.	<18.	12.	0.11
Jul	27.	1.1	<10.	<18.	13.	
Aug	15.3	0.4	11.	<18.	17.	
Sept	10.	0.3	12.	<18.	20.	0.09
Oct	-----		Dry	-----		
Nov	-----		Dry	-----		
Dec	10.2	0.3	21.	<18.	35.	0.05
1978 - Jan	-----		Dry	-----		
Feb	8.8	0.9	<10.	<18.	16.	
Mar	11.	0.3	<10.	<18.	7.	0.05
Apr	7.	0.3	11.	<18.	<7.	
May	10.6	0.6	<10.	<18.	17.	
Jun	9.0				26.	
Jul						
Aug						
Sept	12.8				16.	
Oct						
Nov						
Dec						
Avg.	9.3	0.47	12.8	<18.	17.8	0.08
Max.	27.	1.1	21.	<18.	46.	0.11
Min.	0.2	0.1	<10.	<18.	< 7.	0.05

Sampling Point M - 4

	<u>NO₃(N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1977 - Jan	2.0				21.	
Feb	2.6				15.	
Mar	0.8				<7.	
Apr	1.4	1.0	28.	<18.	43.	
May	0.7	0.1	13.	<18.	14.	
Jun	1.9	1.2	13.	<18.	<7.	0.03
Jul	0.2	0.3	<10.	<18.	<7.	
Aug	1.9	1.6	<10.	<18.	<7.	
Sept	0.3	0.3	<10.	<18.	18.	0.06
Oct	-----		Dry	-----		
Nov	-----		Dry	-----		
Dec	-----		Dry	-----		
1978 - Jan	-----		Dry	-----		
Feb	6.4	0.3	<10.	<18.	<7.	
Mar	7.6	0.2	<10.	<18.	20.	0.03
Apr	3.6	0.3	<10.	<18.	<7.	
May	1.0	0.3	<10.	<18.	7.	
Jun	0.2				17.	
Jul						
Aug						
Sept	2.0				7.	
Oct						
Nov						
Dec						
Avg.	2.2	0.56	12.4	<18.	13.6	0.04
Max.	7.6	1.6	28.	<18.	43.	0.06
Min.	0.2	0.1	10.	<18.	< 7.	0.03

Sampling Point M - 5

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1977 - Jan	0.8				7.	
Feb	0.6				<7.	
Mar	0.5				12.	
Apr	0.4				<7.	
May	0.6				<7.	
Jun	1.1				<7.	
Jul	2.7				<7.	
Aug	1.8				<7.	
Sept	1.2				7.	
Oct	1.0				<7.	
Nov	1.3				13.	
Dec	0.1				<7.	
1978 - Jan	-----		Dry	-----		
Feb	0.2				<7.	
Mar	5.1				11.	
Apr	1.5				<7.	
May	0.6				<7.	
Jun	1.1				11.	
Jul						
Aug						
Sept	0.8				29.	
Oct						
Nov						
Dec						
Avg.	1.2				9.3	
Max.	5.1				29.	
Min.	0.1				<7.	

Sampling Point M - 6

	<u>NO₃(N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1977 - Jan	1.1				9.	
Feb	0.2				16.	
Mar	0.2				7.	
Apr	0.1				11.	
May	1.3				12.	
Jun	0.6				<7.	
Jul	0.8				15.	
Aug	1.0				16.	
Sept	0.2				7.	
Oct	0.3				27.	
Nov	0.2				8.	
Dec	0.1				<7.	
1978 - Jan	17.6				24.	
Feb	3.2				13.	
Mar	1.6				8.	
Apr	0.6				7.	
May	1.6				<7.	
Jun	0.4				9.	
Jul						
Aug						
Sept	1.2				8.	
Oct						
Nov						
Dec						
Avg.	1.6				11.5	
Max.	17.6				27.	
Min.	0.1				<7.	

Sampling Point M - 7

	<u>NO₃(N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1977 - Jan.	-----	-----	Dry	-----	-----	-----
Feb	-----	-----	Dry	-----	-----	-----
Mar	1.4	-----	-----	-----	<7.	-----
Apr	<0.1	-----	-----	-----	<7.	-----
May	-----	-----	Dry	-----	-----	-----
Jun	-----	-----	Dry	-----	-----	-----
Jul	-----	-----	Dry	-----	-----	-----
Aug	-----	-----	Dry	-----	-----	-----
Sept	-----	-----	Dry	-----	-----	-----
Oct	-----	-----	Dry	-----	-----	-----
Nov	-----	-----	Dry	-----	-----	-----
Dec	-----	-----	Dry	-----	-----	-----
1978 - Jan	-----	-----	Dry	-----	-----	-----
Feb	-----	-----	Dry	-----	-----	-----
Mar	-----	-----	Dry	-----	-----	-----
Apr	-----	-----	Dry	-----	-----	-----
May	-----	-----	Dry	-----	-----	-----
Jun	-----	-----	Dry	-----	-----	-----
Jul	-----	-----	-----	-----	-----	-----
Aug	-----	-----	-----	-----	-----	-----
Sept	-----	-----	Dry	-----	-----	-----
Oct	-----	-----	-----	-----	-----	-----
Nov	-----	-----	-----	-----	-----	-----
Dec	-----	-----	-----	-----	-----	-----
Avg.	0.75	-----	-----	-----	<7.	-----
Max.	1.4	-----	-----	-----	<7.	-----
Min.	<0.1	-----	-----	-----	<7.	-----

Sampling Point M-8

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1977 - Jan	-----		Dry	-----		
Feb	-----		Dry	-----		
Mar	0.2				23.	
Apr	0.1				18.	
May	0.4				<7.	
Jun	0.6				<7.	
Jul	0.4				<7.	
Aug	0.6				16.	
Sept	0.6				<7.	
Oct	-----		Dry	-----		
Nov	-----		Dry	-----		
Dec	-----		Dry	-----		
1978 - Jan	-----		Dry	-----		
Feb	-----		Dry	-----		
Mar	0.2				<7.	
Apr	0.3				9.	
May	0.6				<7.	
Jun	0.4				14.	
Jul						
Aug						
Sept	-----		Dry	-----		
Oct						
Nov						
Dec						
Avg.	0.34				9.4	
Max.	0.6				23.	
Min.	0.1				<7.	

Sampling Point M-9

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1977 - Jan	0.6				< 7.	
Feb	0.8				< 7.	
Mar	0.9				< 7.	
Apr	0.6				< 7.	
May	0.3				15.	
Jun	0.3				13.	
Jul	1.7				< 7.	
Aug	0.2				26.	
Sept	-----		Dry	-----		
Oct	-----		Dry	-----		
Nov	-----		Dry	-----		
Dec	-----		Dry	-----		
1978 - Jan	-----		Dry	-----		
Feb	-----		Dry	-----		
Mar	4.4				< 8.	
Apr	2.4				< 7.	
May	1.2				< 7.	
Jun	0.3				17.	
Jul						
Aug						
Sept	-----		Dry	-----		
Oct						
Nov						
Dec						
Avg.	1.1				10.7	
Max.	4.4				26.	
Min.	0.2				< 7.	

Sampling Point M-10

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>ug/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1977 - Jan	2.6				< 7.	
Feb	1.8				10.	
Mar	0.6				< 7.	
Apr	<0.1				8.	
May	0.2				10.	
Jun	0.1				15.	
Jul	0.5				< 7.	
Aug	1.1				< 7.	
Sept	0.4				< 7.	
Oct	-----		Dry	-----		
Nov	-----		Dry	-----		
Dec	-----		Dry	-----		
1978 - Jan	-----		Dry	-----		
Feb	5.4				16.	
Mar	2.6				17.	
Apr	1.0				< 7.	
May	0.6				< 7.	
Jun	0.2				13.	
Jul						
Aug						
Sept	-----		Dry	-----		
Oct						
Nov						
Dec						
Avg.	1.2				9.8	
Max.	5.4				17.	
Min.	<0.1				< 7.	

Sampling Point ED-6

	<u>NO₃(N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1977 - Jan						
Feb						
Mar						
Apr	-----		Dry	-----		
May	-----		Dry	-----		
Jun	-----		Dry	-----		
Jul	-----		Dry	-----		
Aug	-----		Dry	-----		
Sept	-----		Dry	-----		
Oct	-----		Dry	-----		
Nov	-----		Dry	-----		
Dec	-----		Dry	-----		
1978 - Jan	-----		Dry	-----		
Feb	-----		Dry	-----		
Mar	-----		Dry	-----		
Apr						
May			=			
Jun	-----		Dry	-----		
Jul						
Aug						
Sept	-----		Dry	-----		
Oct						
Nov						
Dec						
Avg.						
Max.						
Min.						

Sampling Point ED-8

	<u>NO₃ (N)</u> <u>mg/l</u>	<u>Fluoride</u> <u>mg/l</u>	<u>Gross α</u> <u>pCi/l</u>	<u>Gross β</u> <u>pCi/l</u>	<u>Uranium</u> <u>μg/l</u>	<u>Ra-226</u> <u>pCi/l</u>
1977 - Jan	0.9	1.9	27.	<17.	32.	
Feb	0.9	1.6	24.	<18.	13.	
Mar	1.7	1.2	21.	<19.	17.	0.08
Apr	2.2	1.2	<16.	<18.	14.	
May	3.3	0.5	20.	<18.	26.	
Jun	4.8	1.2	25.	<18.	22.	< 0.01
Jul	-----		Dry	-----		
Aug	4.0	1.1	16.	<18.	13.	
Sept	3.7	1.4	109.	<18.	7.	0.08
Oct	2.2	0.9	23.	<18.	18.	
Nov	1.8	1.1	16.	<18.	17.	
Dec	1.4	1.1	28.	<18.	26.	0.07
1978 - Jan	1.5	0.8	29.	<18.	17.	
Feb	1.4	1.0	30.	<18.	22.	
Mar	1.6	0.9	14.	<18.	20.	0.11
Apr	2.1	0.7	21.	<18.	23.	
May	2.8	0.2	16.	<18.	15.	
Jun	3.0	0.9	<10.	<18.	18.	0.25
Jul						
Aug						
Sept						
Oct						
Nov						
Dec						
Avg.	2.3	1.0	26.2	<18.	18.8	0.10
Max.	4.8	1.9	109.	<19.	32.	0.25
Min.	0.9	0.2	< 10.	<17.	7.	<0.01