



NINE MILE POINT NUCLEAR STATION
AND
JAMES A. FITZPATRICK NUCLEAR POWER PLANT

ANNUAL ENVIRONMENTAL OPERATING REPORT

DPR-63 DOCKET NO. 50-220 (NMP-1)

DPR-59 DOCKET NO. 50-333 (JAF)

JANUARY 1, 1976 - DECEMBER 31, 1976

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NIAGARA MOHAWK POWER CORPORATION

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February 25, 1977

Mr. James P. O'Reilly
Director, Regulatory Operations Office
United States Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA. 19406

RE: Nine Mile Point Nuclear Station Unit #1
Facility Operating License DPR-63
Docket No. 50-220

James A. FitzPatrick Nuclear Power Plant
Facility Operating License DPR-59
Docket No. 50-333

Dear Mr. O'Reilly:

In conformance with the Environmental Technical Specifications for Nine Mile Point Nuclear Station Unit #1 and the James A. FitzPatrick Nuclear Power Plant, we are enclosing the Annual Environmental Operating Report for the period January 1, 1976 through December 31, 1976. Distribution is as listed:

Very truly yours,

ORIGINAL SIGNED BY R.R. SCHNEIDER

R.R. Schneider
Vice President -
Electric Production

Enc. (2 copies)

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cc: Director, Office of Inspection & Enforcement (40)
Director, Office of Management & Program Control (2)

NIAGARA MOHAWK POWER CORPORATION
POWER AUTHORITY OF THE STATE OF NEW YORK

ANNUAL ENVIRONMENTAL OPERATING REPORT
January 1, 1976 - December 31, 1976

NINE MILE POINT NUCLEAR STATION UNIT 1
JAMES A. FITZPATRICK NUCLEAR POWER PLANT

FACILITY OPERATING LICENSE DPR-63 (NMPNS)
DOCKET NUMBER 50-220

FACILITY OPERATING LICENSE DPR-59 (JAFNPP)
DOCKET NUMBER 50-333

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NINE MILE POINT - JAMES A. FITZPATRICK
ANNUAL ENVIRONMENTAL MONITORING REPORT

I. INTRODUCTION

This report is submitted in accordance with Section 5.6.1 of Appendix B to DPR-63 and Section 5.5.1 of Appendix B to DPR-59. It includes data for both the Nine Mile Point and James A. FitzPatrick Plant as they share a common site and environmental monitoring program.

II. DESCRIPTION AND SUMMARY

The required sample collection and analysis schedule for both plants is listed in Tables 1 and 2.

The sampling locations are shown on Figures 1-5.

III. ANALYSIS OF ENVIRONMENTAL DATA

A. Lake Program

Tables 3-6 list the results of the aquatic monitoring program at 3 sampling locations. (JAF, NMP-1, Oswego Water Plant)

1) Bottom Sediments - Table 3

Possible traces of Sr-89 and Sr-90 activity were indicated at all sample locations for the 05/14/76 collection. Other gamma emitters were detected at the NMPP 20' and JAF 20' depth locations. Assuming the corresponding OSWP data as representing normal background, three of the samples indicate activity greater than background (i.e. > two times control).

2) Mollusks - Table 4

Due to the consistent unavailability of mollusks at the control location (OSWP) a representative background level could not be established by which to compare the remaining data. A comparison was made with past data and no unusual or abnormal concentration was indicated.

3) Periphyton - Table 4

Analysis of the periphyton samples indicated Co-60 and CS-134 activity in the 10/15/76 NMPP sample greater than two (2) times control. In that there were no periphyton available at the OSWP location (05/17/76), the OSWP data for the 10/15/76 samples were used as control values. Analysis did show detectable Cs-137 activity in all samples except FITZ (10/15/76).

III. ANALYSIS OF ENVIRONMENTAL DATA (Cont.)

A. Lake Program (Cont.)

4) Gammarus

Gammarus samples for the entire season never contained enough organisms for analysis.

5) Fish - Table 5

The only samples that indicated significant activity were the FitzPatrick yellow perch collected on 5/11-13/76 and the Nine Mile Point yellow perch collected on 5/11/76. These samples showed Sr-90 concentration of 2.20 ± 0.70 pCi/g and Cs-137 concentration of 3.9 ± 0.4 pCi/g, respectively.

6) Lake Water - Table 6

The JAF and OSWP water samples for April and May were apparently cross contaminated in the counting lab.

The results of the circulating water composites for NMP-1 and JAF are contained in Tables 6A and 6B respectively. Chemical analysis of these composites, is required by Section 2 of the Environmental Technical Specifications.

B. Land Program

The results of samples analyzed for the reporting period are included in Tables 7 through 20.

1) Air Particulates - Tables 7-10

Tables 7 and 8 give the air particulate gross beta results for 6 off site stations. Tables 9 and 10 give the gross beta results for the 9 on site stations.

The average gross beta activities (pCi/m^3) are as follows:

<u>Off-Sites</u>	<u>On-Sites</u>
1st Qtr. .035	.031
2nd Qtr. .043	.040
3rd Qtr. .046	.052
4th Qtr. .082	.064

Using the average activity of the off-site stations for each sample period as control for that period, then the following samples may be considered significant. (Activity $> 2 \times$ control).

III. ANALYSIS OF ENVIRONMENTAL DATA (Cont.)

B. Land Program (Cont.)

Station	Date	Activity pCi/m ³	Control pCi/m ³
D ₁ On-Site	2/17/76	.074 ± .010	.032 ± .005
E On-Site	5/11/76	.133 ± .012	.046 ± .005
D ₂ On-Site	6/3/76	.033 ± .004	.014 ± .003
E On-Site	6/3/76	.035 ± .004	.014 ± .003
G On-Site	6/3/76	.063 ± .014	.014 ± .003
K On-Site	6/3/76	.032 ± .004	.014 ± .003
D ₁ On-Site	6/8/76	.121 ± .012	.037 ± .005
D ₂ On-Site	6/8/76	.105 ± .011	.037 ± .005
E On-Site	6/8/76	.124 ± .013	.037 ± .005
F On-Site	6/8/76	.119 ± .012	.037 ± .005
G On-Site	6/8/76	.143 ± .014	.037 ± .005
H On-Site	6/8/76	.101 ± .010	.037 ± .005
I On-Site	6/8/76	.115 ± .011	.037 ± .005
J On-Site	6/8/76	.103 ± .010	.037 ± .005
I On-Site	7/6/76	.191 ± .017	.087 ± .008
D ₁ On-Site	7/13/76	.056 ± .007	.026 ± .004
D ₁ On-Site	7/20/76	.082 ± .008	.025 ± .004
D ₂ On-Site	7/20/76	.076 ± .008	.025 ± .004
E On-Site	7/20/76	.078 ± .008	.025 ± .004
F On-Site	7/20/76	.080 ± .008	.025 ± .004
G On-Site	7/20/76	.083 ± .008	.025 ± .004
H On-Site	7/20/76	.062 ± .006	.025 ± .004
I On-Site	7/20/76	.070 ± .007	.025 ± .004
J On-Site	7/20/76	.088 ± .008	.025 ± .004
K On-Site	7/20/76	.079 ± .008	.025 ± .004

2) Airborne I-131 Tables 11-14

The results of the charcoal cartridge analyses for the off-site stations are shown in Tables 11 and 12. Tables 13 and 14 contain the results from the 9 on-site locations.

The average I-131 activities are as follows:

	<u>Off-Sites</u>	<u>On-Sites</u>
1st Qtr.	0.00±0.37	0.00±0.35
2nd Qtr.	0.00±0.48	0.00±0.46
3rd Qtr.	0.00±0.53	0.00±0.38
4th Qtr.	0.21±4.86	0.14±3.74

Using the average activity of the off-site stations for each sampling date as controls for their respective sample periods then the following samples could be considered significant. (Activity > 2x control.)

The predominant wind direction has been indicated for the sample periods and possible correlation with on-site releases has been noted.

III. ANALYSIS OF ENVIRONMENTAL DATA (Cont.)

B. Land Program (Cont.)

<u>Station</u>	<u>Date</u>	<u>Control (pCi/m³)</u>	<u>Activity (pCi/m³)</u>	<u>Ave. Wind Dir.</u>	<u>Correlation</u>
D ₂ On	10/5/76	0.20	0.41	155	None
F On	10/5/76	0.20	0.52	155	None
E On	10/19/76	0.02	0.09	131	None
F On	10/26/76	0.02	0.06	18	Possible
G On	10/26/76	0.02	0.14	18	Possible
D ₂ On	11/23/76	0.06	0.67	253	None
K On	11/23/76	0.06	0.14	253	Possible
H On	11/30/76	0.07	0.17	200	Possible
E On	12/7/76	0.06	0.16	189	None
G On	12/7/76	0.06	0.22	189	None
J On	12/7/76	0.06	0.24	189	None
K On	12/7/76	0.06	0.37	189	None
D ₂ On	12/21/76	0.14	2.09	252	Possible
F On	12/21/76	0.14	0.31	252	Possible
G On	12/21/76	0.14	1.93	252	Possible
I On	12/21/76	0.14	0.36	252	Possible
J On	12/21/76	0.14	1.65	252	Possible

3) TLD's - Table 15

The environmental TLD readings are reported as an average of 5 individual chips at each location.

The TLD's are broken down into 3 groups for inclusion in this report. These groups and their respective quarterly averages are as follows (mr/qtr):

	<u>QUARTERLY AVERAGES</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Off-Sites	16.5	15.5	19.7	11.7
Site-Bound.	20.8	20.6	30.6	15.1
On-Sites	45.4	48.8	59.8	35.1

Badges 31, 32 and 39 are located near the NMP Radwaste Building and are being influenced by the waste trucks being loaded in the area. Badges 29 and 30 are probably being effected by the JAF N-16 gamma radiation or "turbine shine" and also by waste trucks being loaded in the area.

III. ANALYSIS OF ENVIRONMENTAL DATA (Cont.)

B. Land Program (Cont.)

3) TLD's - Table 15

The following On-site TLD results may be considered significant: (i.e. > 25% above off-site average)

<u>TLD #</u>	<u>1st Qtr.</u>	<u>2nd Qtr.</u>	<u>3rd Qtr.</u>	<u>4th Qtr.</u>
3		30.9± 5.4	38.2± 7.8	22.1± 9.6
4	25.7± 4.8	20.1± 3.6	31.4 ± 6.1	
6	22.4± 4.9			
20		26.9± 6.8	33.1± 4.7	18.8± 4.7
23		24.3± 5.4	28.9± 6.4	15.4± 1.8
24				47.4± 7.7
26			56.3± 6.3	
27	31.6± 4.8	55.9±10.8		
28	26.8± 9.9	43.3± 8.6	90.9±19.1	24.7± 7.5
29	71.0± 3.8	81.3± 9.6	169.9±10.4	132.4±16.6
30	41.2± 8.8	101.7±18.1	145.8±26.8	76.7±12.3
31	41.8± 9.8	35.1± 6.4	58.3± 9.7	28.7± 6.5
32	77.2±13.7		39.6± 5.4	18.8± 7.6
33	24.9± 6.2	35.1± 6.6	43.5± 3.9	22.6± 5.3
34	31.4± 6.9	31.5± 7.8	28.0± 7.4	15.9± 4.8
35		25.7± 5.1		
36		21.5± 6.9	26.0± 8.0	
37	26.8± 4.7		30.8± 6.4	15.0± 4.1
38	29.8± 6.6	27.5± 4.3	32.4± 5.4	16.8± 4.8
39	384.5±38.4	382.3±28.5	441.2±79.7	249.1±54.0
40	71.8± 9.5	82.5± 8.4	60.1±13.2	56.9± 5.7

III. ANALYSIS OF ENVIRONMENTAL DATA (Cont.)

B. Land Program (Cont.)

4) Radiation Monitors - Table 16

The quarterly averages for the continuous radiation monitors are as follows (mrem/qtr):

	Quarterly Averages			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
On-Site	74.3	55.1	40.5	45.4
Off-Site	28.4	52.4	54.6	52.4

Listed below are some of the more significant readings.

<u>Station</u>	<u>Date</u>	<u>Observed mr/hr</u>	<u>Calc. mr/hr.</u>	<u>NMP Release Rate</u>	Meterological Conditions		
					<u>Wind Dir.</u>	<u>Wind Sp.</u>	<u>Turb. Class</u>
I On-Site	3/76	0.23	No corr.	.002	160	12	I
I On-Site	4/76	1.50	No corr.	.004	240	10	IV
I On-Site	5/76	0.42	0.031	.017	310	4	III
D ₁ On-Site	5/76	0.10	No corr.	.011	230	8	IV
D ₁ On-Site	6/76	0.20	0.003	.013	245	29	III

5) Milk

Tables 17 and 18 give the results of the milk analyses. The I-131 data (Table 17) indicates abnormal concentrations in the 10/8 through 11/1 samples. The 11/15 and 11/29 samples show that concentrations had returned to normal.

The reason for these high concentrations was the detonation of a nuclear device by the People's Republic of China on September 26, 1976. Shortly after this event, the I-131 concentrations in milk began to increase. This increase was detected throughout the New York, New Jersey, and Pennsylvania areas. The widespread occurrence of I-131 in milk samples supports the attribution of its presence to the Chinese nuclear test.

It should be noted that the 11/15 and 11/29 samples were collected after the grazing session so as to follow the effects of the aforementioned detonation. The gamma isotopic and Sr-90 data are shown in Table 18.

III. ANALYSIS OF ENVIRONMENTAL DATA (Cont.)

B. Land Program (Cont.)

- 6) The spring and fall milk animal census is included as Table 19.

- 7) Other Land Samples

Table 20 gives the results of the remainder of the land program. This includes produce, eggs, and poultry samples.

IV. ENVIRONMENTAL STATIONS

During the year 1976 it became necessary to move 2 environmental stations. D₁ On-Site and D₂ On-Site were relocated as the station locations were interfering with the construction activities on the Nine Mile Point Unit II site.

Following is a breakdown of the relocations:

D₂ - Moved approximately 300 ft southeast due to interference with the Unit II railroad spur and lay down area. Also power lines were in the way of the booms on the unloading equipment used in this area.

D₁ - Moved 50-100 ft east due to interference with excavation for water line for fire protection.

None of these relocations has any significant effect on either the operating efficiencies of the Station or the Site Environmental Program.

V. ENVIRONMENTAL SAMPLE SUMMARY

<u>Medium/Sample</u>	<u>Location</u>	<u>Nuclide</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
<u>Airborne</u> Particulates	On-Sites	Gross Beta				
	D ₁		.035	.045	.059	.075
	D ₂		.029	.044	.055	.077
	E		.032	.049	.061	.076
	F		.033	.043	.053	.078
	G		.034	.048	.060	.076
	H		.027	.039	.040	.044
	I		.032	.031	.053	.055
	J		.027	.034	.041	.048
	K		.026	.029	.043	.049
	Off-Sites					
	C		.035	.043	.042	.076
	D ₁		.034	.044	.043	.076
	D ₂		.035	.044	.043	.084
	E		.034	.041	.047	.077
	F		.036	.043	.053	.080
	G		.035	.042	.045	.098

V. ENVIRONMENTAL SAMPLE SUMMARY (Cont.)

<u>Medium Sample</u>	<u>Location</u>	<u>Nuclide</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter*</u>
Airborne						
Charcoal Cart.	On-Sites	I-131				
	D ₁		0.00 ± 0.45	0.00 ± 0.51	0.00 ± 0.67	0.02 ± 3.67
	D ₂		0.00 ± 0.50	0.00 ± 0.54	0.00 ± 0.63	0.25 ± 3.32
	E		0.00 ± 0.36	0.00 ± 0.56	0.00 ± 0.68	0.06 ± 4.39
	F		0.00 ± 0.41	0.00 ± 0.47	0.00 ± 0.57	0.08 ± 3.64
	G		0.00 ± 0.39	0.00 ± 0.48	0.00 ± 0.67	0.25 ± 3.66
	H		0.00 ± 0.26	0.00 ± 0.41	0.00 ± 0.37	0.04 ± 4.70
	I		0.00 ± 0.28	0.00 ± 0.30		0.21 ± 2.41
	J		0.00 ± 0.23	0.02 ± 0.43	0.00 ± 0.35	0.16 ± 4.04
	K		0.00 ± 0.27	0.00 ± 0.48	0.00 ± 0.50	0.19 ± 3.38
	Off-Sites					
	C		0.00 ± 0.26	0.00 ± 0.42	0.00 ± 0.47	0.06 ± 3.37
	D ₁		0.00 ± 0.33	0.00 ± 0.47	0.00 ± 0.58	0.75 ± 5.46
	D ₂		0.00 ± 0.38	0.00 ± 0.51	0.00 ± 0.55	0.07 ± 5.58
	E		0.00 ± 0.42	0.00 ± 0.46	0.00 ± 0.55	0.09 ± 6.26
	F		0.00 ± 0.37	0.00 ± 0.47	0.00 ± 0.54	0.06 ± 3.73
	G		0.00 ± 0.45	0.00 ± 0.54	0.00 ± 0.49	0.25 ± 4.81

*Sensitivity lost due to large decay correction.

V. ENVIRONMENTAL SAMPLE SUMMARY (Cont.)

<u>Medium/Sample</u>	<u>Location</u>	<u>Nuclide</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
Direct Radiation						
Continuous						
Monitors (GM)	On-Sites	mrem/qtr.				
	D ₁		102.648	102.6	65.5	63.3
	D ₂		52.4	61.1	43.7	41.5
	E		30.6	32.8	30.6	37.1
	F		30.6	34.9	34.9	28.4
	G		28.4	32.8	34.9	65.5
	H		28.4	43.7	43.7	52.4
	I		67.7	104.8	30.6	37.1
	J		28.4	41.5	41.5	50.2
	K		39.3	41.5	39.3	32.8
	Off-Site					
	C		28.4	52.4	54.6	52.4
TLD's						
	Off-Site	mrem/qtr.	16.5	15.5	19.7	11.7
	Site Boundary		20.8	20.6	30.6	15.1
	On Site		45.4	48.8	59.8	35.1

V. ENVIRONMENTAL SAMPLE SUMMARY (Cont.)

<u>Medium/Sample</u>	<u>Location</u>	<u>Nuclide</u>	<u>1st Quarter</u>	<u>2nd Quarter</u>	<u>3rd Quarter</u>	<u>4th Quarter</u>
Ingestion Milk	#1	I-131	*	0.10	0.00	4.32
		K-40	*	1107	1053	1059
		Cs-137	*	2.2	3.0	0.0
		Sr-90	*	3.8	1.3	4.2
	#2	I-131	*	0.00	0.04	4.74
		K-40	*	1085	1092	1142
		Cs-137	*	11.8	5.3	0.0
		Sr-90	*	9.4	4.1	9.8
	#3	I-131	*	0.07	0.24	1.39
		K-40	*	997	930	1004
		Cs-137	*	2.5	1.8	0.0
		Sr-90	*	3.7	4.4	4.6
	#4	I-131	*	0.03	0.29	1288
		K-40	*	1110	1066	1128
		Cs-137	*	7.0	3.77	6.6
		Sr-90	*	12.2	2.0	

*No samples collected - not in grazing season.

TABLE 1

SAMPLE COLLECTION AND ANALYSISSITE RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAMA. LAKE PROGRAM⁽¹⁾

<u>MEDIA</u>	<u>ANALYSIS</u> ⁽⁵⁾	<u>FREQUENCY</u> ⁽⁴⁾	<u>LOCATION</u> ⁽²⁾	
1. Fish	GeLi, ⁸⁹ Sr & ⁹⁰ Sr	2/yr	2 onsite	1 offsite
2. Mollusks	GeLi, ⁸⁹ Sr & ⁹⁰ Sr	2/yr	2 onsite	1 offsite
3. Gammarus	GeLi, ⁸⁹ Sr & ⁹⁰ Sr	2/yr	2 onsite	1 offsite
4. Bottom Sediments	GeLi, ⁹⁰ Sr	2/yr	2 onsite	1 offsite
5. Periphyton	GeLi	2/yr	2 onsite	1 offsite
6. Lake Water	GB, GSA or GeLi ³ H, ⁸⁹ Sr, ⁹⁰ Sr	M Comp. Qtr. Comp.	3(3)	

Notes:

- (1) Program continued for at least three years after the startup of James A. Fitzpatrick Nuclear Power Plant.
- (2) Onsite locations samples collected in the vicinity of discharges, offsite samples collected at a distance of at least five miles from site.
- (3) The three lake water samples to include Nine Mile Point Unit 1 intake water, James A. FitzPatrick intake water, and Oswego City water.
- (4) Samples of items 1 through 5 collected in springs, summer and fall when available.
- (5) GeLi analysis will have a MDL of 3 times σ of background based on a 400 minute count on a 55 cc GeLi system.

TABLE 2

SAMPLE COLLECTION AND ANALYSISSITE RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAMB. LAND PROGRAM⁽¹⁾

<u>MEDIA</u>	<u>ANALYSIS</u>	<u>FREQUENCY</u>	<u>NO. OF LOCATIONS</u>	<u>LOCATIONS</u>
1. Air Particulates	GB GSA	W M Comp. (6)	At least 10	9 onsite , 6 offsite
2. Soil	GSA, ⁹⁰ Sr	Every 3 years	15	9 onsite 6 offsite
3. TLD	Gamma Dose	Qtr.	20	14 onsite 6 offsite
4. Radiation Monitors	Gamma Dose	C	10	9 onsite 1 offsite
5. Airborne - I ¹³¹	GSA	W	At least 10	9 onsite 6 offsite
6. Milk	I GSA, ⁹⁰ Sr	M M Comp.	4 (7)	(8)
7. Human Food Crops	GSA, ¹³¹ I	A	3	(8)
8. Meat, Poultry, Eggs	GSA Edible Portion	SA	3	(8)

Notes: (Cont.)

(6) Onsite samples counted together, offsite counted together, any high count samples counted separately.

(7) Frequency applied only during grazing season.

(8) Samples to be collected from farms within a 10-mile radius having the highest potential concentrations of radionuclides.

Abbreviations:

M Comp. - Monthly composite of weekly or bi-weekly samples
 GB - Gross beta analysis
 GeLi - Gamma spectral analysis on a GeLi system (quantitative)
 GSA - Gamma spectral analysis on a NaI system (quantitative)

A - Annually BW - Bi-weekly (alternate wks.)
 W - Weekly Qtr. - Quarterly
 M - Monthly SA - Semiannually
 C - Continuous

FIGURE 1
OFF-SITE ENVIRONMENTAL STATION
AND
TLD LOCATIONS *

*TLD at each station

Revised to January 1, 1974

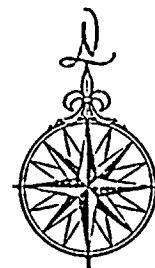
SCALE OF MILES



LEGEND

Interstate.....
U.S. & State Highways.....
County Roads.....
Town Roads.....
County Lines.....
Town Lines.....
City & Village Lines.....
Railroads.....

Latitude 43°28' N.
Longitude 76°00' W.
at Oswego County Bldg., Oswego, N.Y.
Land Area 568 Square miles



LAKE
ONTARIO

JAF-131P SITE

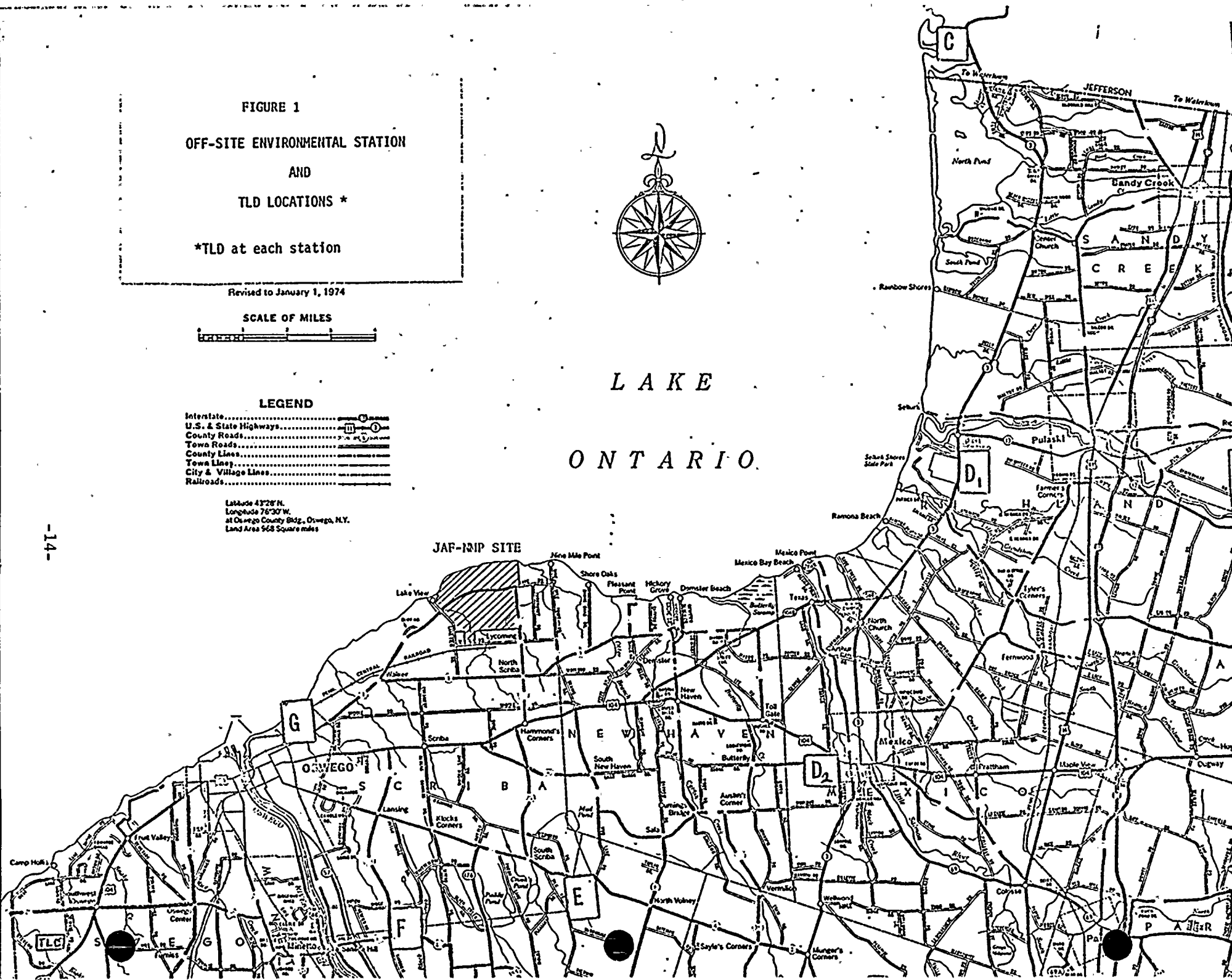
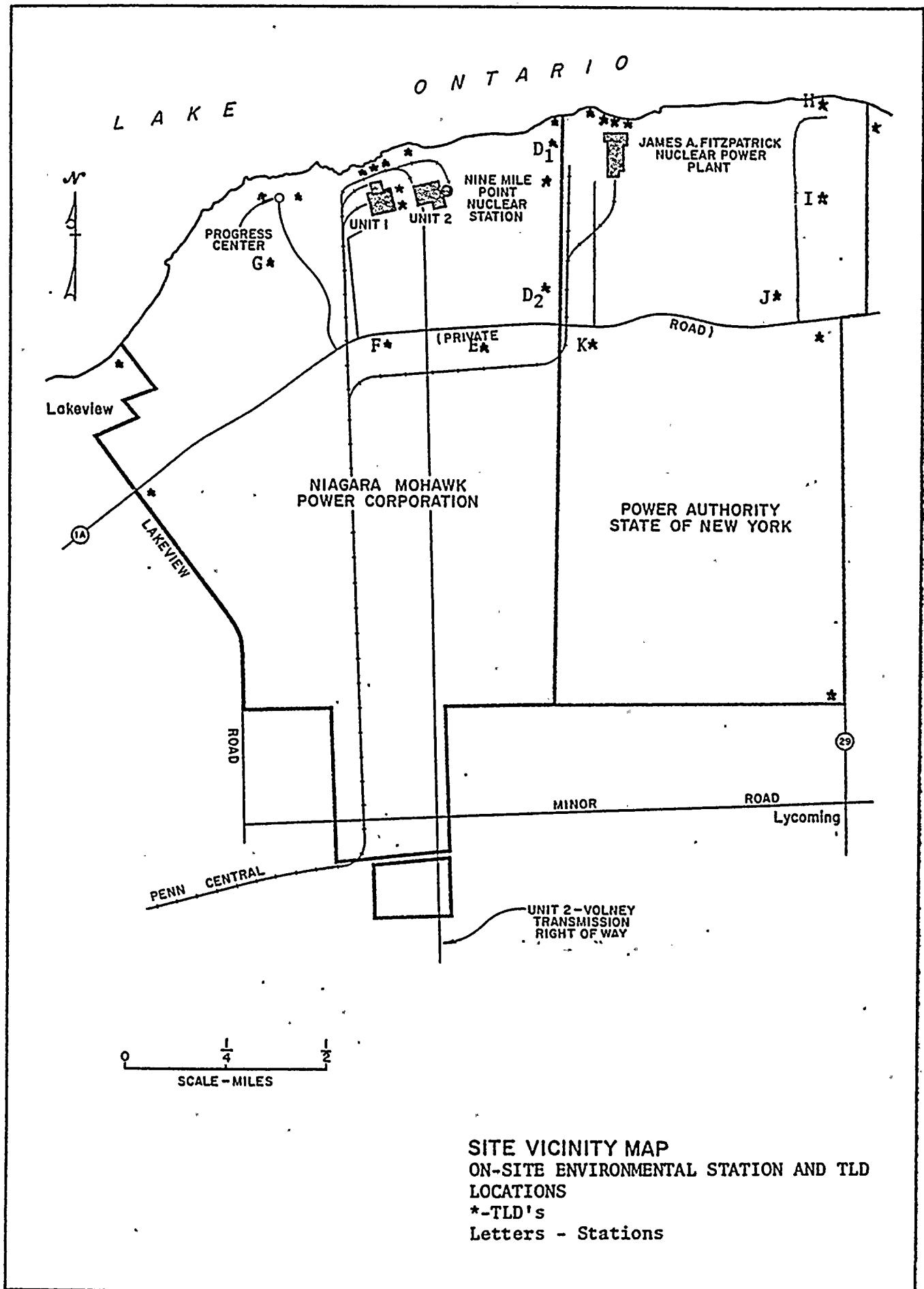


FIGURE 2



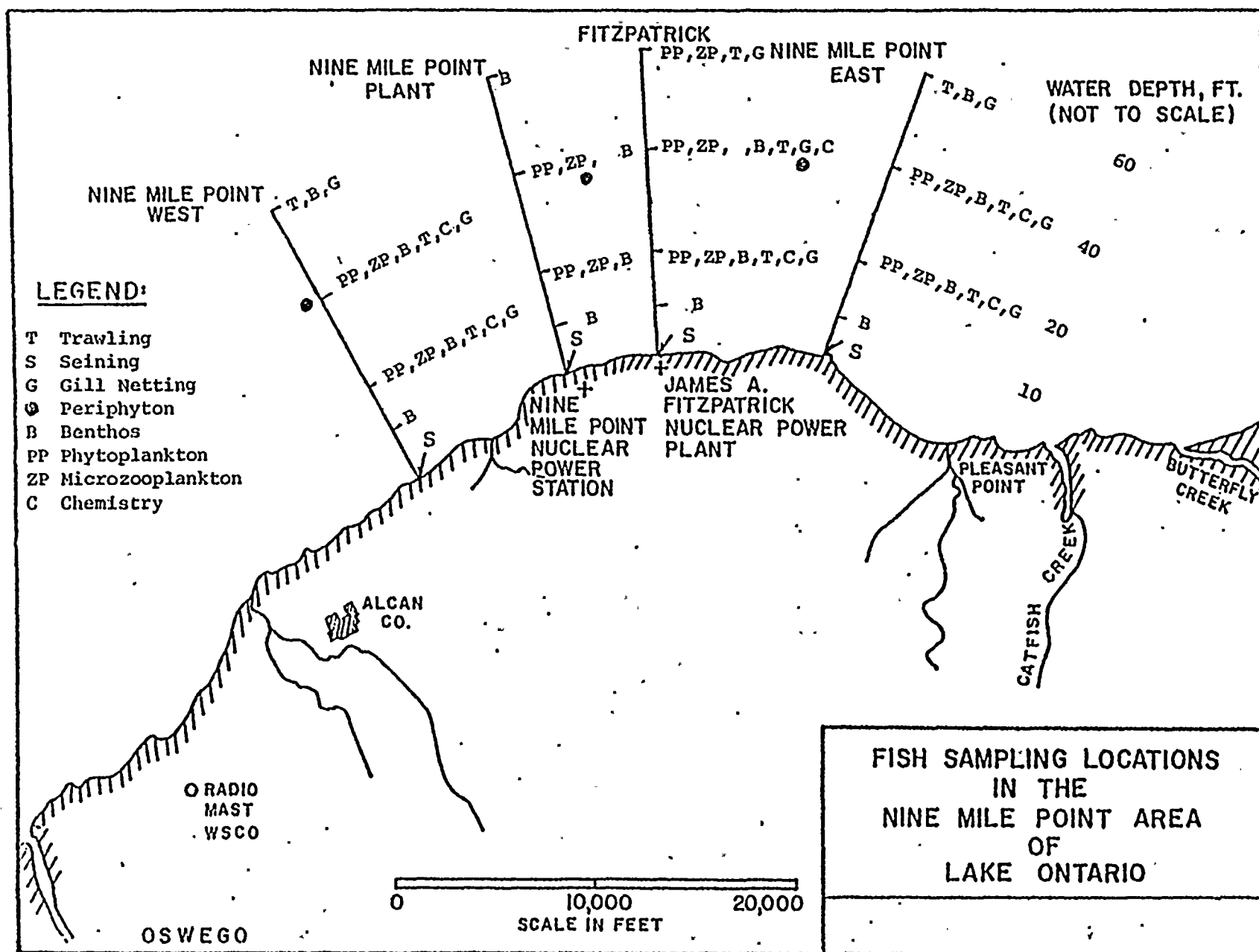
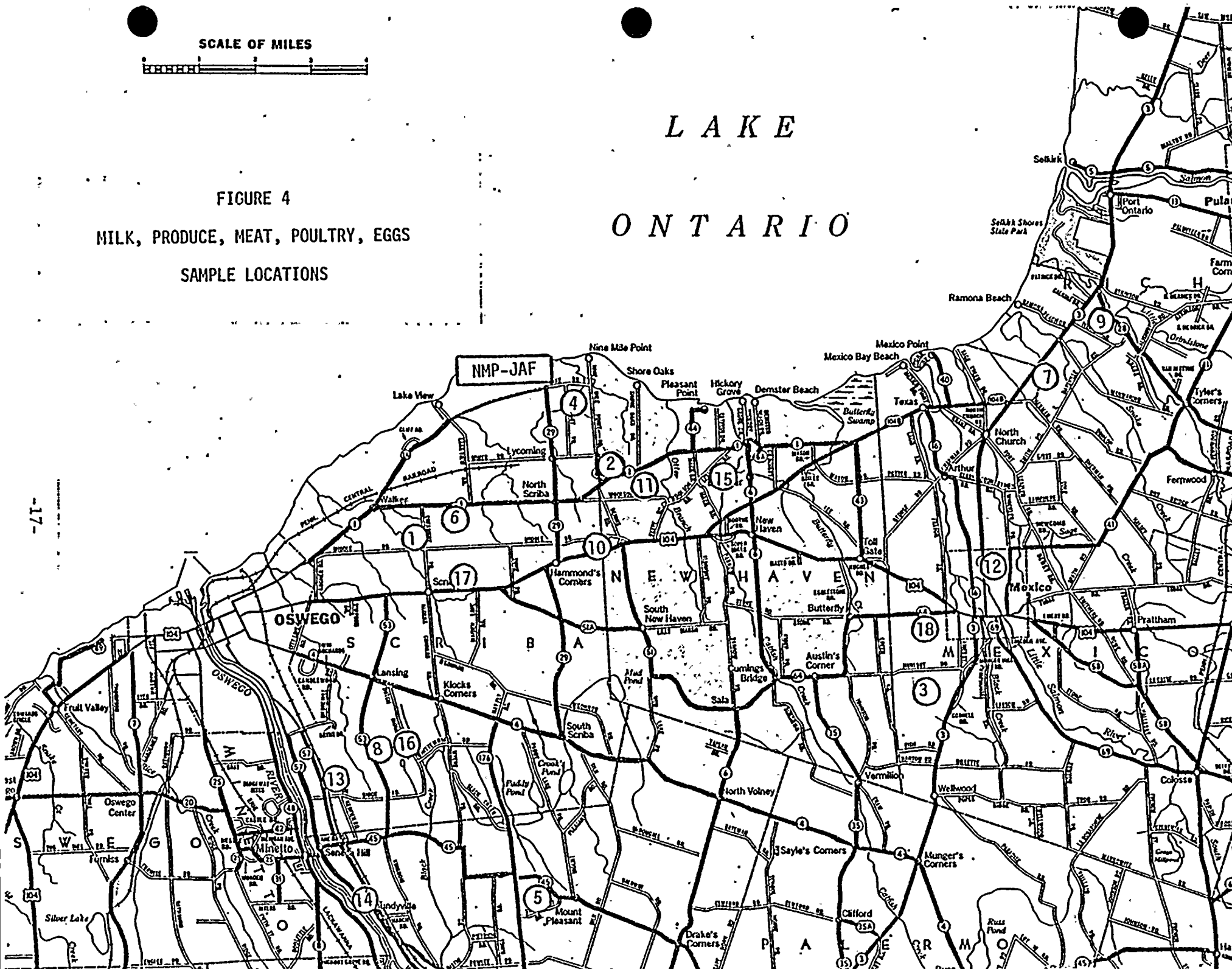


FIGURE 3
AQUATIC SAMPLE LOCATIONS

FIGURE 4

SAMPLE LOCATIONS



MILCH ANIMAL CENSUS LOCATIONS

L A K E
O N T A R I O

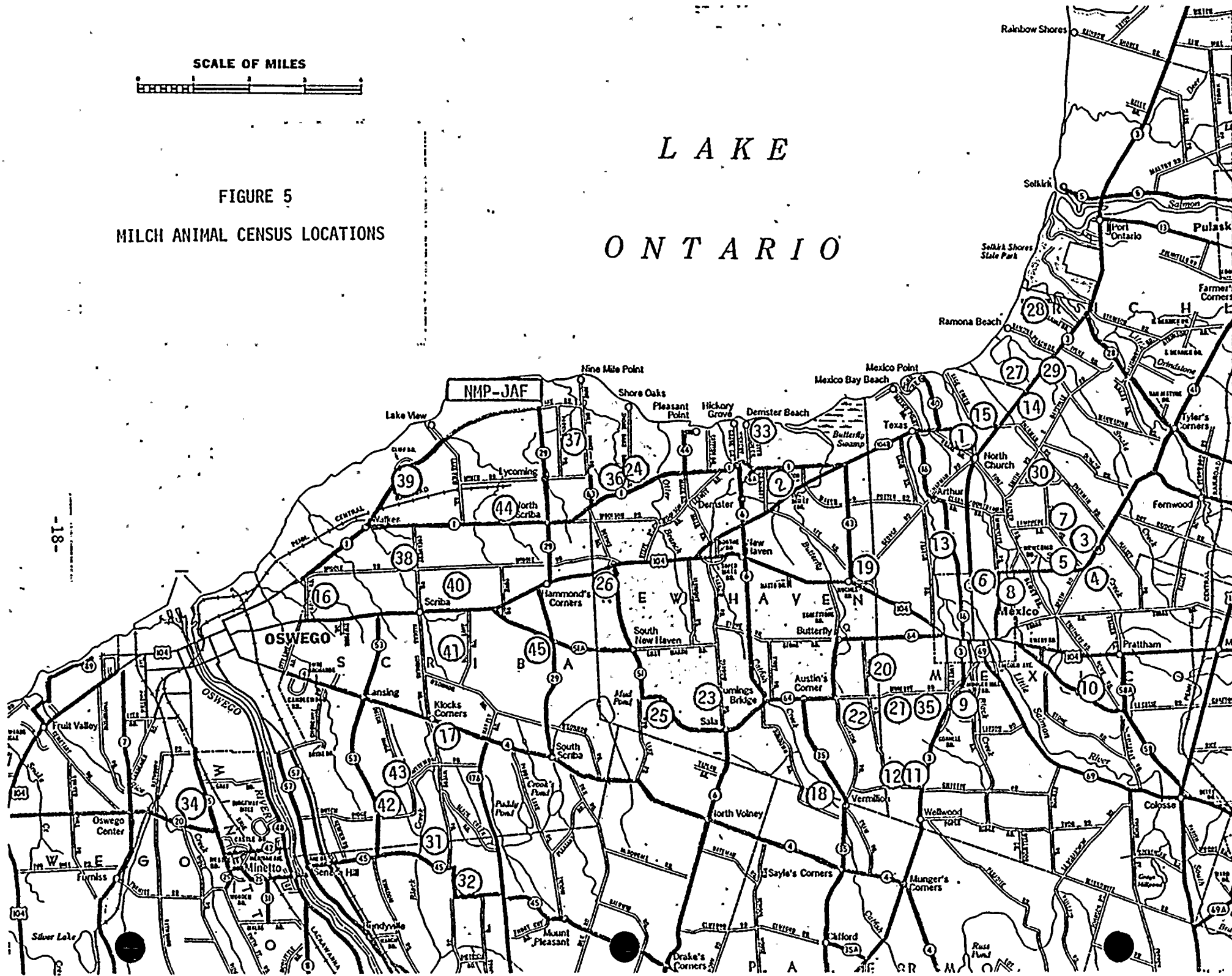


TABLE 3
Sr-89 AND Sr-90 AND GAMMA ISOTOPIC ANALYSIS OF BOTTOM SEDIMENT

Collection Site	Collection Date	pCi/g (Wet Weight)					
		Sr-89	Sr-90	Gamma Emitters			
				Cs-134	Cs-137	Co-60	Others*
NMPP 20'	05/14/76	0.0±0.2	0.0±0.1(a)	0.0±1.0	2.9±0.3	0.0±1.0	0.0±1.0
NMPP 40'	05/14/76	0.0±0.4	0.0±0.2(a)	0.0±1.0	0.0±1.0	0.0±1.0	0.0±1.0
FITZ 20'	05/14/76	0.0±0.2	0.0±0.1(a)	0.0±1.0	2.0±0.3	1.5±0.3	Zr-95=1.5±0.3 All others 0.0±1.0
FITZ 40'	05/14/76	0.0±0.1	.040±.036	0.0±1.0	0.0±1.0	0.0±1.0	0.0±1.0
OSWP 40'	05/15/76	0.0±0.2	0.0±0.1(a)	0.0±1.0	0.0±1.0	0.0±1.0	0.0±1.0
OSWP 20'	05/15/76	0.0±0.8	0.0±0.7(a)	0.0±1.0	0.0±1.0	0.0±1.0	0.0±1.0
NMPP 20'	10/13/76	(b)	(b)	(b)	(b)	(b)	(b)
NMPP 40'	10/13/76	0.00±0.01	0.00±0.02	0.0±1.0	0.0±1.0	0.0±1.0	0.0±1.0
FITZ 20'	10/13/76	0.00±0.03	0.04±0.02	0.0±1.0	0.0±1.0	0.0±1.0	0.0±1.0
FITZ 40'	10/13/76	0.00±0.01	0.00±0.01	0.0±1.0	0.0±1.0	0.0±1.0	0.0±1.0
OSWP 20'	10/13/76	(b)	(b)	(b)	(b)	(b)	(b)
OSWP 40'	10/13/76	(b)	(b)	(b)	(b)	(b)	(b)

*The spectrum is computer scanned from ~20 to ~2000 KeV. Specifically included are Ce-144, Ba-La-140, Cs-134, Cs-137, Zr-Nb-95, Co-58, Co-60, Mn-54, Zn-65. Naturally occurring gamma emitters such as K-40 and Ra daughters are frequently detected but not listed here.

(a) Insufficient sample for a more sensitive analysis.

(b) Insufficient sample for analysis.

TABLE 4

STRONTIUM 89 AND 90, GAMMA ISOTOPIC ANALYSIS OF MOLLUSKS

<u>Collection Date</u>	<u>Collection Site</u>	<u>pCi/g (Wet)</u>		
		<u>Sr-89</u>	<u>Sr-90</u>	<u>Gamma Emitters*</u>
05/14/76	NMPP 20'-40'	0.00±1.44 (a)	0.00±0.90 (a)	Mn-54 = 2.0±1.8 Co-60 = 1.2±0.2 All others = 0.0±1.0
05/14/76	FITZ 20'-40'	0.42±0.08	0.51±0.10	Cs-137 = 1.8±0.1 Mn-54 = 3.7±0.2 All others = 0.0±1.0
05/14/76	OSWP 20'-40'	No Mollusks Available		
10/30/76	NMPP 20'-40'			0.0±1.0
10/30/76	FITZ 20'-40'			0.0±1.0
10/30/76	OSWP 20'-40'	No Mollusks Available		

GAMMA ISOTOPIC ANALYSIS OF PERIPHYTON

<u>Collection Site</u>	<u>Collection Date</u>	<u>pCi/g (Wet Weight)</u>				
		<u>Cs-134</u>	<u>Cs-137</u>	<u>Co-60</u>	<u>Mn-54</u>	<u>Others*</u>
NMPP	05/17/76	0.0±1.0	2.3±.33	0.0±1.0	0.0±1.0	0.0±1.0
FITZ	05/17/76	0.0±1.0	1.4±.30	0.0±1.0	0.0±1.0	0.0±1.0
OSWP	05/17/76	No Periphyton Available				
NMPP	10/15/76	1.1±0.3	4.1±0.3	3.0±0.7	0.0±1.0	0.0±1.0
FITZ	10/15/76	0.0±1.0	0.0±1.0	0.0±1.0	0.0±1.0	0.0±1.0
OSWP	10/15/76	0.0±1.0	5.0±1.0	0.0±1.0	0.0±1.0	0.0±1.0

(a) Insufficient sample for more sensitive analysis.

* The spectrum is computer scanned from ~20 to ~2000 KeV. Specifically included are Ce-144, Ba-La-140, Cs-134, Cs-137, Zr-Nb-95, Co-58, Co-60, Mn-54, Zn-65. Naturally occurring gamma emitters such as K-40 and Ra daughters are frequently detected but not listed here.

TABLE 5

STRONTIUM 89 AND 90, GAMMA ISOTOPIC ANALYSIS OF FISH SAMPLES

OSWEGO

<u>Collection Date</u>	<u>Sample Type</u>	<u>pCi/g (Wet)</u>		<u>Gamma Emitters*</u>
		<u>Sr-89</u>	<u>Sr-90</u>	
05/21-23/76	Yellow Perch	0.15±0.03	0.16±0.04	Cs-137 = 1.2±0.3 All others = 0.0±1.0
5/21/76	Smallmouth Bass	0.41±0.08	0.33±0.09	0.0±1.0
05/14,21-22/76	White Perch	0.38±0.28	0.81±0.16	0.0±1.0
05/21-22/76	White Sucker	0.12±0.11	0.21±0.08	0.0±1.0
05/21/76	Lake Trout	0.00±0.10	0.00±0.08	0.0±1.0
10/19-20/76	Rainbow Trout	0.00±0.10	0.00±0.02	0.0±1.0
10/19-20/76	Yellow Perch	0.00±0.20	0.00±0.09	0.0±1.0
10/19-20/76	White Perch	0.00±0.10	0.09±0.02	0.0±1.0
10/20-24/76	White Sucker	0.00±0.10	0.05±0.02	0.0±1.0
10/19-20/76	Brown Trout	0.00±0.10	0.00±0.02	0.0±1.0
10/19-20/76	Smallmouth Bass	0.00±0.10	0.09±0.02	0.0±1.0

STRONTIUM 89 AND 90, GAMMA ISOTOPIC ANALYSIS OF FISH SAMPLES

FITZPATRICK

<u>Collection Date</u>	<u>Sample Type</u>	<u>pCi/g (Wet)</u>		<u>Gamma Emitters*</u>
		<u>Sr-89</u>	<u>Sr-90</u>	
05/11-13/76	Yellow Perch	0.00±0.98	2.20±0.70	0.0±1.0
05/11/76	White Perch	0.25±0.15	0.23±0.10	0.0±1.0
05/11-13,23-24/ 76	White Sucker	0.00±0.18	0.18±0.09	0.0±1.0
05/23/76	Lake Trout	0.00±0.10	0.00±0.03	0.0±1.0
10/04-05/76	Rock Bass	0.00±0.10	0.12±0.02	0.0±1.0
10/04/76	White Sucker	0.00±0.10	0.07±0.02	0.0±1.0
10/20-24/76	Brown Trout	0.00±0.10	0.00±0.02	0.0±1.0
10/04-05/76	White Perch	0.00±0.18	0.18±0.12	0.0±1.0
10/04-05/76	Yellow Perch	0.00±0.10	0.09±0.02	0.0±1.0

TABLE 5 (Cont.)

STRONTIUM 89 AND 90, GAMMA ISOTOPIC ANALYSIS OF FISH SAMPLES

NINE MILE POINT

<u>Collection Date</u>	<u>Sample Type</u>	<u>pCi/g (Wet)</u>		<u>Gamma Emitters*</u>
		<u>Sr-89</u>	<u>Sr-90</u>	
05/11/76	Yellow Perch	0.19±0.12	0.27±0.06	Cs-134 = 1.0±0.8 Cs-137 = 3.9±0.4 All others = 0.0±1.0
05/11-13,23-24/76	Smallmouth Bass	0.00±0.10	0.20±0.03	Cs-137 = 0.5±0.4 All others = 0.0±1.0
05/11-13/76	Rock Bass	0.33±0.23	0.29±0.13	Cs-137 = 0.7±0.5 All others = 0.0±1.0
05/11-23/76	White Perch	0.21±0.21	0.32±0.13	Cs-137 = 0.5±0.4 All others = 0.0±1.0
05/11/76	White Sucker	0.00±0.20	0.35±0.14	0.0±1.0
05/11-13,23-24/ 76	Brown Trout	0.00±0.20	0.22±0.13	0.0±1.0
10/04-05/76	Rock Bass	0.00±0.10	0.05±0.01	0.0±1.0
10/04/76	White Sucker	0.00±0.10	0.09±0.03	0.0±1.0
10/04-76	Yellow Perch	0.00±0.10	0.13±0.06	0.0±1.0
10/04-05/76	Rainbow Trout	0.00±0.10	0.07±0.02	0.0±1.0
10/04/76	White Perch	0.00±0.10	0.13±0.04	0.0±1.0
10/04-05/76	Smallmouth Bass	0.00±0.10	0.05±0.01	0.0±1.0

*The spectrum is computer scanned from ~20 to ~2000 KeV. Specifically included are Ce-144, Ba-La-140, Cs-134, Cs-137, Zr-Nb-95, Co-58, Co-60, Mn-54, Zn-65. Naturally occurring gamma emitters such as K-40 and Ra daughters are frequently detected but not listed here.

TABLE 6
LAKE WATER SAMPLES
INLET CANAL

Monthly Composite - Gross Beta - pCi/l				Location	Quarterly Composite - pCi/l			
Date	NMP-1	JAF	OSWP		Date	H-3	Sr-89	Sr-90
1-76	0.0± 5.1	48.4± 5.8	21.3± 2.7	NMP-1	3-76	297± 64	0.0±3.9	0.0±3.3
2-76	0.0± 4.1	38.8± 5.1	26.7± 2.6	JAF	3-76	889±209		
3-76	14.0± 2.8	46.8±15.5	49.9±18.8	OSWP	3-76	929±210	0.0±2.8	0.0±2.8
4-76	8.0± 4.0	192.0±21.6	189.0±21.5	NMP-1	6-76	365± 68	0.0±3.2	0.0±3.3
5-76	13.2±17.1	186.0±23.2	66.6±21.1	JAF	6-76	365± 68		
6-76	15.1± 4.1	78.9±20.4	51.5±19.0	OSWP	6-76	586± 78	0.0±3.9	0.0±3.7
7-76	4.9± 3.9	72.2± 9.4	4.9± 3.9					
8-76	8.0±20.5	45.9±10.9	17.2±22.6	NMP-1	9-76	000±400	0.0±5.1	0.0±5.9
9-76	22.6±20.7	0.0±29.3	14.1±19.8	JAF	9-76	000±400	0.0±1.4	0.0±1.1
10-76	4.6±20.3	3.4±13.8	7.9±20.5	OSWP	9-76	000±400	0.0±8.8	0.0±9.1
11-76	15.2± 5.7	0.0±29.3	52.2±14.2	NMP-1	12-76	650±100	0.0±5.0	0.0±2.0
12-76	1.1± 7.0	16.1±13.4	8.5± 6.5	JAF	12-76	000±400	*	*
				OSWP	12-76	440±100	0.0±5.0	0.0±2.0

*Data will be included in supplemental report.

TABLE 6A

NMP-1 CIRCULATING WATER MONTHLY COMPOSITE RESULTS

SAMPLE	PH	INLET CANAL			PH	DISCHARGE CANAL		
		DISSOLVED SOLIDS PPM	SUSPENDED SOLIDS PPM	TOTAL SOLIDS PPM		DISSOLVED SOLIDS PPM	SUSPENDED SOLIDS PPM	TOTAL SOLIDS PPM
1-76	7.05	210	9.5	220	7.00	201	1.0	202
2-76	7.25	210	3.0	213	7.30	255	5.0	260
3-76	7.80	244	4.0	248	7.70	250	7.0	257
4-76	7.60	206	1.5	207	7.60	206	1.5	207
5-76	7.50	234	3.0	237	7.70	229	6.0	235
6-76	7.70	225	2.0	223	7.70	233	2.0	231
7-76	8.10	200	9.0	209	8.10	214	2.0	216
8-76	7.80	172	3.5	175	7.90	160	2.0	162
9-76	7.60	223	6.5	229	7.90	216	2.5	218
10-76	7.80	183	7.0	190	7.50	284*	100.0*	384*
11-76	8.00	220	9.0	229	7.80	204.5	7.5	212
12-76	7.80	243	2.0	245	7.80	232	4.0	236

*Sample was not representative.

TABLE 6B-

JAF CIRCULATING WATER COMPOSITE RESULTS*

	<u>INLET</u>													
	<u>FTU</u> <u>Turb.</u>	<u>ppb</u> <u>Fe</u>	<u>ppm</u> <u>Ca</u>	<u>ppm</u> <u>Na</u>	<u>ppm</u> <u>Mg</u>	<u>ppm</u> <u>K</u>	<u>ppb</u> <u>Mn</u>	<u>ppm</u> <u>Cl-1</u>	<u>ppm</u> <u>SO₄-2</u>	<u>ppm</u> <u>PO₄-3</u>	<u>ppm</u> <u>TSS</u>	<u>ppm</u> <u>TDS</u>	<u>pH</u>	<u>Color</u>
1-76	0.8	15.3	47.0	27.0	9.4	1.7	<2	46.9	16.0	<.5	3.0	123	7.6	10
2-76	1.0	86.7	40.8	21.5	8.2	0.9	5.3	38.2	21.0	0	8.1	186	7.7	10
3-76	0.7	214.0	44.9	22.4	8.4	1.5	8.2	49.9	36.0	<.5	10.0	248	7.8	15
4-76	1.4	102.0	42.4	15.3	8.0	1.5	6.7	39.0	29.6	<.5	1.6	142	7.8	10
5-76	0.9	20.4	44.1	17.3	8.8	1.6	4.8	46.8	28.0	<.5	2.8	93	7.7	10
6-76	0.2	<10	40.8	20.4	8.5	1.5	7.4	36.0	57.0	<.5	2.0	184	7.8	5
7-76	0.2	<10	53.5	20.4	8.7	1.5	8.6	36.0	18.0	<.5	8.0	196	7.4	5
8-76	1.6	<10	20.9	18.4	8.6	1.4	<2	38.2	30.0	<.5	2.0	190	8.0	10
9-76	0.1	<10	37.8	14.3	7.4	1.2	<2	31.7	36.0	<.5	2.0	162	8.0	5
10-76	2.2	26.0	40.8	14.3	7.4	1.3	<2	38.0	34.0	<.5	4.8	208	7.8	5
11-76	1.7	<10	38.8	14.3	8.0	1.5	<2	31.2	68.0	<.5	2.1	220	7.6	5
12-76	1.9	71.4	54.3	31.6	8.9	1.6	3.1	33.3	36.0	<.5	1.8	198	7.7	10
	<u>DISCHARGE</u>													
1-76	1.6	25.5	45.6	25.0	9.0	1.7	<2	48.8	16.0	<.5	1.0	175	7.8	10
2-76	1.4	30.6	41.2	20.5	8.4	0.9	<2	37.8	23.0	0	9.6	198	7.6	10
3-76	0.5	153.0	44.9	22.4	8.4	1.5	6.5	50.9	29.0	.5	12.0	239	7.6	10
4-76	1.2	377.0	49.0	19.9	8.4	1.6	13.5	52.0	25.2	<.5	0.8	155	7.6	10
5-76	1.1	98.0	42.0	14.3	8.5	1.5	6.9	43.6	32.0	<.5	3.2	81	7.6	15
6-76	0.1	<10	40.4	20.4	7.9	1.5	9.2	38.0	57.0	<.5	0.6	185	7.6	<5
7-76	0.1	<10	52.7	20.4	8.5	1.5	<2	34.0	12.0	<.5	5.4	201	7.5	5
8-76	1.3	<10	21.4	20.4	8.8	1.5	<2	40.0	29.6	<.5	1.4	184	8.0	10
9-76	0.1	<10	40.8	15.3	7.6	1.2	<2	44.0	30.0	<.5	6.5	158	7.9	5
10-76	2.2	41.0	39.8	15.3	7.6	1.3	<2	41.0	38.0	<.5	6.0	196	7.9	5
11-76	1.5	<10	38.8	14.3	8.0	1.5	<2	30.7	42.0	<.5	2.4	221	7.8	10
12-76	2.0	25.5	46.5	18.4	8.1	1.4	1.0	34.8	44.0	<.5	0.8	187	7.9	10

*24 hr composites collected during MUD Tank discharges.

TABLE 7
NMP - JAF SITE
ENVIRONMENTAL AIRBORNE PARTICULATE SAMPLES - OFF SITE STATIONS
GROSS BETA ACTIVITY $\text{pCi/m}^3 \pm 2\sigma$

LOCATION

Date Collected	C	D ₁	D ₂	E	F	G
1-6-76	.029 + .003	.029 + .003	.025 + .002	.030 + .003	.035 + .003	.033 + .004
1-13-76	.025 + .003	.030 + .004	.037 + .004	.025 + .004	.028 + .004	.032 + .004
1-20-76	.034 + .004	.036 + .005	.036 + .005	.035 + .005	.037 + .005	.024 + .007
1-27-76	.018 + .004	.009 + .004	.016 + .004	.026 + .005	.016 + .004	.008 + .007
2-3-76	.027 + .004	.024 + .004	.023 + .004	.028 + .004	.022 + .004	.017 + .006
2-10-76	.039 + .004	.036 + .004	.041 + .005	.037 + .005	.043 + .005	.045 + .007
2-17-76	.049 + .005	.036 + .005	.032 + .005	.022 + .004	.018 + .004	.048 + .008
2-24-76	.054 + .005	.051 + .005	.051 + .005	.047 + .005	.073 + .007	.055 + .006
3-3-76	.034 + .004	.032 + .004	.035 + .004	.035 + .004	.033 + .004	.032 + .004
3-9-76	.032 + .004	.037 + .004	.046 + .005	.036 + .004	.034 + .004	.036 + .004
3-16-76	.029 + .003	.035 + .004	.033 + .004	.027 + .003	.036 + .004	.032 + .004
3-23-76	.036 + .004	.040 + .005	.033 + .004	.043 + .005	.044 + .004	.041 + .004
3-30-76	.050 + .005	.046 + .005	.051 + .005	.047 + .005	.052 + .005	.054 + .005
4-6-76	.018 + .003	.027 + .004	.022 + .003	.020 + .003	.021 + .003	.019 + .003
4-13-76	.075 + .007	.087 + .008	.080 + .007	.084 + .008	.077 + .007	.073 + .007
4-20-76	.053 + .005	.054 + .006	.053 + .006	.060 + .006	.053 + .005	.051 + .006
4-28-76	.027 + .003	.023 + .004	.023 + .004	.025 + .003	.020 + .003	.026 + .003
5-5-76	.043 + .005	.045 + .004	.086 + .008	.035 + .005	.052 + .005	.042 + .004
5-12-76	.057 + .006	.047 + .005	.045 + .005	.038 + .005	.045 + .005	.042 + .004
5-19-76	.011 + .002	.014 + .003	.013 + .003	.013 + .003	.021 + .003	.084 + .002
5-26-76	.020 + .003	.025 + .004	.013 + .003	.046 + .005	.014 + .003	Sample Lost
6-4-76	.014 + .002	.016 + .003	.013 + .003	.013 + .003	.015 + .003	.014 + .003
6-9-76	.034 + .005	.036 + .005	.043 + .005	.038 + .005	.029 + .005	.039 + .005
6-16-76	.039 + .004	.050 + .006	.045 + .005	.051 + .006	.048 + .005	.063 + .006
6-23-76	.066 + .007	.064 + .007	.078 + .008	.053 + .006	.068 + .007	.051 + .005
7-1-76	.100 + .009	.079 + .008	.062 + .006	.055 + .006	.006 + .009	.071 + .007

TABLE 8
NMP - JAF SITE
ENVIRONMENTAL AIRBORNE PARTICULATE SAMPLES - OFF SITE STATIONS
GROSS BETA ACTIVITY $\text{pCi/m}^3 \pm 2\sigma$

LOCATION

Date Collected	C	D ₁	D ₂	E	F	G
7-6-76	.062 + .006	.068 + .007	.088 + .009	.100 + .010	.118 + .011	.085 + .008
7-13-76	.022 + .003	.027 + .004	.025 + .004	.019 + .003	.029 + .004	.032 + .004
7-20-76	.024 + .003	.025 + .004	.025 + .004	.022 + .004	.025 + .004	.025 + .004
7-28-76	.067 + .007	.103 + .010	.097 + .010	.101 + .010	.123 + .020	.088 + .009
8-3-76	.035 + .004	.061 + .006	.038 + .005	.102 + .010	.059 + .006	.048 + .005
8-10-76	.028 + .004	.030 + .004	.036 + .005	.039 + .005	.059 + .006	.039 + .005
8-17-76	.059 + .006	.052 + .006	.073 + .007	.067 + .007	.090 + .009	.070 + .007
8-24-76	.102 + .152	.045 + .008	.030 + .007	.061 + .010	.046 + .008	.082 + .012
8-31-76	.022 + .001	.005 + .003	.021 + .004	.000 + .051	.020 + .004	.034 + .004
9-7-76	.022 + .001	.027 + .001	.026 + .001	.017 + .001	.026 + .001	.025 + .001
9-14-76	.042 + .002	.050 + .002	.047 + .002	.032 + .002	.040 + .002	.039 + .002
9-21-76	.037 + .002	.043 + .002	.039 + .002	.032 + .002	.037 + .002	.046 + .002
9-28-76	.019 + .001	.022 + .001	.019 + .001	.021 + .001	.020 + .001	.019 + .001
10-5-76	.064 + .010	.061 + .011	.059 + .010	.056 + .011	.063 + .010	.080 + .012
10-13-76	.041 + .007	.044 + .009	.240 + .330	.034 + .008	.050 + .008	.100 + .014
10-19-76	.041 + .007	.020 + .008	.008 + .006	.004 + .007	.019 + .006	.032 + .007
10-26-76	.049 + .008	.042 + .008	.046 + .008	.059 + .010	.038 + .007	.092 + .013
11-2-76	.096 + .013	.076 + .012	.091 + .013	.127 + .018	.112 + .015	.167 + .016
11-9-76	.068 + .010	.072 + .011	.062 + .010	.081 + .012	.075 + .011	.110 + .015
11-17-76	.082 + .011	.086 + .013	.062 + .010	.067 + .011	.100 + .014	.098 + .014
11-23-76	.085 + .012	.107 + .015	.089 + .013	.096 + .014	.100 + .014	.109 + .015
11-30-76	.108 + .014	.116 + .016	.120 + .016	.118 + .016	.111 + .015	.133 + .018
12-7-76	.084 + .011	.101 + .014	.056 + .009	.091 + .013	.072 + .010	.090 + .012
12-14-76	.100 + .013	.097 + .014	.095 + .013	.095 + .014	.099 + .014	.095 + .013
12-12-76	.096 + .013	.091 + .013	.094 + .013	.096 + .013	.096 + .014	.097 + .013
12-28-76	.073 + .010	.075 + .011	.067 + .010	.081 + .012	.078 + .012	.065 + .009

TABLE 9
NMP - JAF SITE
PARTIAL

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TABLE 10
NMP - JAF SITE
ENVIRONMENTAL AIRBORNE PARTICULATE SAMPLES - ON SITE STATIONS
Gross Beta Activity - $\text{pCi/m}^3 \pm 2\sigma$

Date Collected	LOCATION									
	D ₁	D ₂	E	F	G	H	I	J	K	
7-6-76	.166 + .016	.130 + .013	.160 + .017	.142 + .014	.144 + .014	.114 + .011	.191 + .017	.099 + .009	.141 + .013	
7-13-76	.056 + .007	.048 + .006	.038 + .005	.038 + .005	.033 + .004	.042 + .004	.048 + .005	.016 + .002	.034 + .004	
7-20-76	.082 + .008	.076 + .008	.078 + .008	.080 + .008	.083 + .008	.062 + .006	.070 + .007	.088 + .008	.079 + .008	
7-28-76	.081 + .008	.083 + .008	.093 + .010	.090 + .009	.076 + .008	.010 + .002	.074 + .007	.073 + .007	.034 + .004	
8-3-76	.072 + .008	.054 + .006	.113 + .011	.068 + .007	.073 + .008	.059 + .006	.074 + .007	.021 + .003	.029 + .004	
8-10-76	.047 + .005	.042 + .005	.070 + .008	.044 + .005	.043 + .005	.051 + .005	.031 + .003	.042 + .005	.050 + .006	
8-17-76	.072 + .008	.059 + .006	.056 + .006	.061 + .006	.065 + .007	.059 + .006	.030 + .003	.064 + .006	.054 + .006	
8-24-76	.035 + .003	.066 + .012	.028 + .008	.012 + .006	.078 + .013	.009 + .004	.041 + .007	.026 + .006	.000 + .004	
8-31-76	.018 + .004	.019 + .005	.027 + .006	.020 + .004	.042 + .005	.012 + .003	.020 + .003	.002 + .003	.017 + .004	
9-7-76	.023 + .001	.023 + .001	.028 + .001	.027 + .001	.020 + .001	.012 + .001	.014 + .001	.018 + .001	.020 + .001	
9-14-76	.036 + .002	.045 + .002	.034 + .002	.039 + .002	.041 + .002	.038 + .002	.034 + .002	.032 + .002	.035 + .002	
9-21-76	.056 + .003	.055 + .003	.051 + .002	.049 + .002	.057 + .003	.040 + .002	.050 + .002	.047 + .002	.056 + .003	
9-28-76	.018 + .001	.018 + .001	.016 + .001	.022 + .001	.019 + .001	.015 + .001	.018 + .001	.011 + .001	.012 + .001	
10-5-76	.096 + .015	.063 + .010	.069 + .012	.056 + .010	.067 + .011	.023 + .005	.018 + .001	.051 + .009	.064 + .011	
10-13-76	.006 + .007	.017 + .006	.018 + .007	.024 + .007	.002 + .006	.009 + .004	.036 + .006	.032 + .006	.053 + .009	
10-19-76	.059 + .010	.051 + .008	.044 + .009	.084 + .012	.053 + .009	.015 + .004	.000 + .046	.009 + .006	.011 + .006	
10-26-76	.078 + .013	.109 + .015	.081 + .012	.110 + .015	.077 + .012	.023 + .005	.004 + .003	.029 + .006	.027 + .006	
11-2-76	.094 + .013	.076 + .011	.097 + .013	.092 + .013	.086 + .013	.009 + .004	.004 + .003	.050 + .008	.010 + .004	
11-9-76	.089 + .013	.094 + .012	.084 + .013	.107 + .015	.124 + .017	.057 + .008	.028 + .005	.015 + .005	.054 + .009	
11-17-76	.120 + .018	.084 + .012	.108 + .015	.081 + .012	.072 + .011	.064 + .009	.049 + .007	.051 + .008	.066 + .010	
11-23-76	.070 + .011	.111 + .015	.077 + .011	.095 + .013	.083 + .012	.078 + .010	.067 + .009	.015 + .006	.011 + .004	
11-30-76	.068 + .010	.094 + .013	.091 + .013	.083 + .012	.096 + .014	.026 + .006	.079 + .011	.085 + .012	.092 + .012	
12-7-76	.090 + .012	.085 + .012	.109 + .015	.082 + .012	.062 + .009	.056 + .008	.091 + .012	.054 + .009	.059 + .009	
12-14-76	.087 + .012	.104 + .014	.084 + .012			.096 + .013	.018 + .005	.081 + .011	.044 + .007	
12-21-76	.068 + .010	.083 + .012				.014 + .004	.097 + .014	.084 + .012	.086 + .012	
12-28-76						.060 + .009	.078 + .011	.068 + .010	.065 + .010	

TABLE 11
NMP-JAF SITE
ENVIRONMENTAL CHARCOAL CARTRIDGE ACTIVITY OFF-SITE STATIONS
I-131 pCi/m³ $\pm 3\sigma$

Date Collected	Location					
	C	D ₁	D ₂	E	F	G
1-8-76	0.00 \pm 0.42	0.00 \pm 0.60	0.00 \pm 1.11	0.00 \pm 0.58	0.00 \pm 0.77	0.00 \pm 0.83
1-15-76	0.00 \pm 0.36	0.00 \pm 0.40	0.00 \pm 0.43	0.00 \pm 0.50	0.00 \pm 0.52	0.00 \pm 0.83
1-22-76	0.00 \pm 0.23	0.00 \pm 0.24	0.00 \pm 0.24	0.00 \pm 0.37	0.00 \pm 0.39	0.00 \pm 0.41
1-29-76	0.00 \pm 0.27	0.00 \pm 0.33	0.00 \pm 0.27	0.00 \pm 0.29	0.00 \pm 0.28	0.00 \pm 0.29
2-5-76	0.00 \pm 0.16	0.00 \pm 0.18	0.00 \pm 0.20	0.00 \pm 0.20	0.00 \pm 0.29	0.00 \pm 0.54
2-12-76	0.00 \pm 0.22	0.00 \pm 0.29	0.00 \pm 0.36	0.00 \pm 0.27	0.00 \pm 0.28	0.00 \pm 0.52
2-21-76	0.00 \pm 0.08	0.00 \pm 0.10	0.00 \pm 0.11	0.00 \pm 0.11	0.00 \pm 0.03	0.00 \pm 0.11
2-26-76	0.00 \pm 0.22	0.00 \pm 0.24	0.00 \pm 0.20	0.00 \pm 0.24	0.00 \pm 0.23	0.00 \pm 0.45
3-4-76	0.00 \pm 0.34	0.00 \pm 0.34	0.00 \pm 0.40	0.00 \pm 0.38	0.00 \pm 0.34	0.00 \pm 0.30
3-10-76	0.00 \pm 0.34	0.00 \pm 0.29	0.00 \pm 0.31	0.00 \pm 0.29	0.00 \pm 0.37	0.00 \pm 0.39
3-17-76	0.00 \pm 0.18	0.00 \pm 0.20	0.00 \pm 0.21	0.00 \pm 0.23	0.00 \pm 0.18	0.00 \pm 0.20
3-23-76	0.00 \pm 0.16	0.00 \pm 0.65	0.00 \pm 0.69	0.00 \pm 1.89	0.00 \pm 0.64	0.00 \pm 0.59
3-31-76	0.00 \pm 0.40	0.00 \pm 0.45	0.00 \pm 0.43	0.00 \pm 0.43	0.00 \pm 0.51	0.00 \pm 0.41
4-7-76	0.00 \pm 0.42	0.00 \pm 0.51	0.00 \pm 0.34	0.00 \pm 0.48	0.00 \pm 0.36	0.00 \pm 0.42
4-14-76	0.00 \pm 0.35	0.00 \pm 0.34	0.00 \pm 0.32	0.00 \pm 0.35	0.00 \pm 0.38	0.00 \pm 0.39
4-21-76	0.00 \pm 0.78	0.00 \pm 0.84	0.00 \pm 1.09	0.00 \pm 0.88	0.00 \pm 0.84	0.00 \pm 0.93
4-28-76	0.00 \pm 0.54	0.00 \pm 0.57	0.00 \pm 0.49	0.00 \pm 0.63	0.00 \pm 0.84	0.00 \pm 0.46
5-5-76	0.00 \pm 0.38	0.00 \pm 0.42	0.00 \pm 0.49	0.00 \pm 0.52	0.00 \pm 0.59	0.00 \pm 0.42
5-12-76	0.00 \pm 0.31	0.00 \pm 0.33	0.00 \pm 0.63	0.00 \pm 0.41	0.00 \pm 0.41	0.00 \pm 0.32
5-19-76	0.00 \pm 0.22	0.00 \pm 0.26	0.00 \pm 0.38	0.00 \pm 0.19	0.00 \pm 0.20	0.00 \pm 0.16
5-26-76	0.00 \pm 0.76	0.00 \pm 0.81	0.00 \pm 0.83	0.00 \pm 0.68	0.00 \pm 0.57	0.00 \pm 0.64
6-4-76	0.00 \pm 0.27	0.00 \pm 0.47	0.00 \pm 0.36	0.00 \pm 0.39	0.00 \pm 0.38	0.00 \pm 0.43
6-9-76	0.00 \pm 0.49	0.00 \pm 0.42	0.00 \pm 0.41	0.00 \pm 0.50	0.00 \pm 0.49	0.00 \pm 0.43
6-16-76	0.00 \pm 0.20	0.00 \pm 0.26	0.00 \pm 0.26	0.00 \pm 0.24	0.00 \pm 0.25	0.00 \pm 0.21
6-23-76	0.00 \pm 0.31	0.00 \pm 0.35	0.00 \pm 0.35	0.00 \pm 0.37	0.00 \pm 0.34	0.00 \pm 0.40
6-30-76	0.00 \pm 0.40	0.00 \pm 0.49	0.00 \pm 0.67	0.00 \pm 0.39	0.00 \pm 0.55	0.00 \pm 0.44

TABLE 12
NMP-JAF SITE
ENVIRONMENTAL CHARCOAL CARTRIDGE ACTIVITY OFF-SITE STATIONS
I-131 pCi/m³ $\pm 3\sigma$

Date Collected	Location					
	C	D ₁	D ₂	E	F	G
7-7-76	0.00 \pm 0.78	0.00 \pm 1.00	0.00 \pm 0.80	0.00 \pm 1.10	0.00 \pm 0.47	0.00 \pm 0.66
7-14-76	0.00 \pm 0.54	0.00 \pm 0.61	0.00 \pm 0.65	0.00 \pm 0.58	0.00 \pm 0.63	0.00 \pm 0.60
7-21-76	0.00 \pm 0.58	0.00 \pm 0.50	0.00 \pm 0.48	0.00 \pm 0.45	0.00 \pm 0.86	0.00 \pm 0.47
7-28-76	0.00 \pm 0.33	0.00 \pm 0.46	0.00 \pm 0.38	0.00 \pm 0.48	0.00 \pm 0.43	0.00 \pm 0.40
8-4-76	0.00 \pm 0.48	0.00 \pm 0.51	0.00 \pm 0.55	0.00 \pm 0.54	0.00 \pm 0.50	0.00 \pm 0.45
8-11-76	0.00 \pm 0.41	0.00 \pm 0.73	0.00 \pm 0.60	0.00 \pm 0.50	0.00 \pm 0.56	0.00 \pm 0.67
8-18-76	0.00 \pm 0.54	0.00 \pm 0.78	0.00 \pm 0.72	0.00 \pm 0.73	0.00 \pm 0.75	0.00 \pm 0.66
8-25-76	0.00 \pm 0.64	0.00 \pm 0.58	0.00 \pm 0.62	0.00 \pm 0.62	0.00 \pm 0.56	0.00 \pm 0.46
9-1-76	0.00 \pm 0.39	0.00 \pm 0.58	0.00 \pm 0.50	0.00 \pm 0.52	0.00 \pm 0.47	0.00 \pm 0.48
9-8-76	0.00 \pm 0.41	0.00 \pm 0.48	0.00 \pm 0.57	0.00 \pm 0.23	0.00 \pm 0.56	0.00 \pm 0.43
9-15-76	0.00 \pm 0.24	0.00 \pm 0.37	0.00 \pm 0.37	0.00 \pm 0.32	0.00 \pm 0.33	0.00 \pm 0.24
9-21-76	0.00 \pm 0.34	0.00 \pm 0.33	0.00 \pm 0.41	0.00 \pm 0.49	0.00 \pm 0.42	0.00 \pm 0.37
9-29-76	0.24 \pm 5.60	0.00 \pm 7.21	0.60 \pm 7.05	0.99 \pm 7.81	2.80 \pm 6.73	1.02 \pm 6.07
10-6-76	0.22 \pm 1.49	0.00 \pm 1.90	0.00 \pm 1.78	0.44 \pm 2.10	0.46 \pm 1.70	0.06 \pm 1.55
10-13-76	0.07 \pm 1.16	0.07 \pm 1.73	0.00 \pm 0.56	0.35 \pm 1.69	0.03 \pm 1.38	0.09 \pm 0.59
10-20-76	0.03 \pm 0.29	0.00 \pm 0.56	0.00 \pm 0.51	0.00 \pm 0.53	0.07 \pm 0.36	0.00 \pm 0.42
10-27-76	0.01 \pm 0.32	0.05 \pm 0.56	0.00 \pm 13.90	0.00 \pm 17.70	0.06 \pm 0.47	0.00 \pm 12.40
11-3-76	0.00 \pm 7.66	0.00 \pm 13.90	0.00 \pm 12.30	0.00 \pm 14.30	0.00 \pm 11.00	0.00 \pm 9.21
11-10-76	0.00 \pm 2.72	2.11 \pm 10.70	0.00 \pm 3.68	0.00 \pm 4.64	0.00 \pm 2.79	0.29 \pm 3.79
11-17-76	0.00 \pm 3.38	0.00 \pm 4.84	0.00 \pm 4.36	0.00 \pm 5.49	0.00 \pm 4.19	0.00 \pm 4.16
11-24-76	0.00 \pm 4.09	0.30 \pm 3.76	0.00 \pm 2.84	0.00 \pm 2.78	0.00 \pm 3.28	0.06 \pm 2.85
12-1-76	0.15 \pm 1.86	0.00 \pm 2.63	0.00 \pm 1.27	0.00 \pm 2.85	0.22 \pm 2.16	0.05 \pm 2.27
12-8-76	0.00 \pm 1.01	0.00 \pm 1.33	0.00 \pm 1.31	0.00 \pm 1.50	0.04 \pm 2.23	0.08 \pm 1.04
12-15-76	0.08 \pm 1.84	1.00 \pm 2.41	0.00 \pm 4.29	0.00 \pm 4.42	0.00 \pm 5.34	0.00 \pm 3.79
12-22-76	0.18 \pm 1.75	0.29 \pm 2.37	0.38 \pm 2.25	0.00 \pm 2.21	0.00 \pm 2.85	0.00 \pm 1.73
12-29-76	0.00 \pm 16.30	5.88 \pm 24.30	0.48 \pm 23.50	0.44 \pm 21.20	0.00 \pm 10.70	2.67 \pm 18.70

TABLE 13
NMP-JAF SITE
ENVIRONMENTAL CHARCOAL CARTRIDGE ACTIVITY ON-SITE STATIONS
I-131 pCi/m³ ± 3σ

	Location									
Date Collected	D ₁	D ₂	E	F	G	H	I	J	K	
1-6-76	0.00 ± 1.32	0.00 ± 1.19	0.00 ± 0.66	0.00 ± 0.84	0.00 ± 0.63	0.00 ± 0.56	0.00 ± 0.54	0.00 ± 0.49	0.00 ± 0.37	
1-13-76	0.00 ± 0.41	0.00 ± 0.67	0.00 ± 0.46	0.00 ± 0.49	0.00 ± 0.47	0.00 ± 0.28	0.00 ± 0.39	0.00 ± 0.37	0.00 ± 0.53	
1-20-76	0.00 ± 0.49	0.00 ± 0.51	0.00 ± 0.36	0.00 ± 0.37	0.00 ± 0.36	0.00 ± 0.25	0.00 ± 0.21	0.00 ± 0.19	0.00 ± 0.21	
1-27-76	0.00 ± 0.23	0.00 ± 0.57	0.00 ± 0.30	0.00 ± 0.34	0.00 ± 0.29	0.00 ± 0.21	0.00 ± 0.16	0.00 ± 0.15	0.00 ± 0.16	
2-3-76	0.00 ± 0.44	0.00 ± 0.43	0.00 ± 0.27	0.00 ± 0.26	0.00 ± 0.24	0.00 ± 0.15	0.00 ± 0.12	0.00 ± 0.19	0.00 ± 0.12	
2-10-76	0.00 ± 0.41	0.00 ± 0.28	0.00 ± 0.27	0.00 ± 0.34	0.00 ± 0.52	0.00 ± 0.20	0.00 ± 0.29	0.00 ± 0.17	0.00 ± 0.23	
2-17-76	0.00 ± 0.47	0.00 ± 0.29	0.00 ± 0.10	0.00 ± 0.31	0.00 ± 0.11	0.00 ± 0.21	0.00 ± 0.15	0.00 ± 0.05	0.00 ± 0.05	
2-24-76	0.00 ± 0.52	0.00 ± 0.34	0.00 ± 0.34	0.00 ± 0.33	0.00 ± 0.48	0.00 ± 0.24	0.00 ± 0.19	0.00 ± 0.19	0.00 ± 0.17	
3-3-76	0.00 ± 0.32	0.00 ± 0.38	0.00 ± 0.37	0.00 ± 0.41	0.00 ± 0.29	0.00 ± 0.25	0.00 ± 0.26	0.00 ± 0.32	0.00 ± 0.31	
3-9-76	0.00 ± 0.27	0.00 ± 0.42	0.00 ± 0.35	0.00 ± 0.35	0.00 ± 0.31	0.00 ± 0.23	0.00 ± 0.20	0.00 ± 0.22	0.00 ± 0.19	
3-16-76	0.00 ± 0.23	0.00 ± 0.22	0.00 ± 0.26	0.00 ± 0.24	0.00 ± 0.25	0.00 ± 0.18	0.00 ± 0.19	0.00 ± 0.14	0.00 ± 0.13	
3-23-76	0.00 ± 0.62	0.00 ± 0.57	0.00 ± 0.63	0.00 ± 0.62	0.00 ± 0.53	0.00 ± 0.45	0.00 ± 0.51	0.00 ± 0.31	0.00 ± 0.69	
3-30-76	0.00 ± 0.47	0.00 ± 0.62	0.00 ± 0.40	0.00 ± 0.37	0.00 ± 0.60	0.00 ± 0.21	0.00 ± 0.43	0.00 ± 0.21	0.00 ± 0.30	
4-6-76	0.00 ± 0.35	0.00 ± 0.41	0.00 ± 0.56	0.00 ± 0.34	0.00 ± 0.73	0.00 ± 0.35	0.00 ± 0.32	0.20 ± 0.22	0.00 ± 0.33	
4-13-76	0.00 ± 0.30	0.00 ± 0.32	0.00 ± 0.35	0.00 ± 0.25	0.00 ± 0.29	0.00 ± 0.23	0.00 ± 0.19	0.00 ± 0.19	0.00 ± 0.29	
4-20-76	0.00 ± 0.65	0.00 ± 0.38	0.00 ± 0.58	0.00 ± 0.48	0.00 ± 0.50	0.00 ± 0.33	0.00 ± 0.33	0.00 ± 0.40	0.00 ± 1.25	
4-28-76	0.00 ± 0.69	0.00 ± 0.60	0.00 ± 0.86	0.00 ± 0.45	0.00 ± 0.60	0.00 ± 0.17	0.00 ± 0.36	0.00 ± 0.46	0.00 ± 0.89	
5-4-76	0.00 ± 0.47	0.00 ± 0.52	0.00 ± 0.61	0.00 ± 0.58	0.00 ± 0.54	0.00 ± 0.33	0.00 ± 0.34	0.00 ± 0.30	0.00 ± 0.40	
5-11-76	0.00 ± 0.33	0.00 ± 0.42	0.00 ± 0.36	0.00 ± 0.35	0.00 ± 0.25	0.00 ± 0.24	0.00 ± 0.20	0.00 ± 0.19	0.00 ± 0.47	
5-18-76	0.00 ± 0.40	0.00 ± 0.70	0.00 ± 0.20	0.00 ± 0.16	0.00 ± 0.23	0.00 ± 0.24	0.00 ± 0.17	0.00 ± 0.20	0.00 ± 0.19	
5-25-76	0.00 ± 1.20	0.00 ± 1.23	0.00 ± 1.53	0.00 ± 1.38	0.00 ± 0.98	0.00 ± 1.01	0.00 ± 0.72	0.00 ± 0.74	0.00 ± 0.99	
6-3-76	0.00 ± 0.53	0.00 ± 0.49	0.00 ± 0.48	0.00 ± 0.43	0.00 ± 0.31	0.00 ± 0.46	0.00 ± 0.23	0.00 ± 0.21	0.00 ± 0.44	
6-8-76	0.00 ± 0.69	0.00 ± 0.60	0.00 ± 0.67	0.00 ± 0.54	0.00 ± 0.54	0.00 ± 0.38	0.00 ± 0.28	0.00 ± 0.19	0.00 ± 0.21	
6-16-76	0.00 ± 0.40	0.00 ± 0.33	0.00 ± 0.28	0.00 ± 0.25	0.00 ± 0.34	0.00 ± 0.22	0.00 ± 0.14	0.00 ± 0.18	0.00 ± 0.20	
6-22-76	0.00 ± 0.42	0.00 ± 0.51	0.00 ± 0.30	0.00 ± 0.41	0.00 ± 0.40	0.00 ± 0.75	0.00 ± 0.29	0.00 ± 0.29	0.00 ± 0.22	
7-1-76	0.00 ± 0.19	0.00 ± 0.49	0.00 ± 0.53	0.00 ± 0.50	0.00 ± 0.53	0.00 ± 0.66	0.00 ± 0.32	0.00 ± 0.35	0.00 ± 0.36	

TABLE 14
NMP-JAF SITE
ENVIRONMENTAL CHARCOAL CARTRIDGE ACTIVITY ON-SITE STATIONS
I-131 pCi/m³ ± 3σ

Date Collected	Location									
	D ₁	D ₂	E	F	G	H	I	J	K	
7-6-76	0.00 ± 0.50	0.00 ± 0.57	0.00 ± 0.67	0.00 ± 0.55	0.00 ± 0.60	0.00 ± 0.39	0.00 ± 0.36	0.00 ± 0.36	0.00 ± 0.47	
7-13-76	0.00 ± 0.67	0.00 ± 0.67	0.00 ± 0.80	0.00 ± 0.79	0.00 ± 0.70	0.00 ± 0.42	0.00 ± 0.43	0.00 ± 0.34	0.00 ± 0.57	
7-20-76	0.00 ± 0.54	0.00 ± 0.49	0.00 ± 0.63	0.00 ± 0.48	0.00 ± 0.47	0.00 ± 0.35	0.00 ± 0.32	0.00 ± 0.32	0.00 ± 0.42	
7-28-76	0.00 ± 0.84	0.00 ± 0.80	0.00 ± 0.49	0.00 ± 0.53	0.00 ± 0.48	0.00 ± 0.30	0.00 ± 0.32	0.00 ± 0.27	0.00 ± 0.56	
8-3-76	0.00 ± 0.70	0.00 ± 0.41	0.00 ± 0.77	0.00 ± 0.60	0.00 ± 0.44	0.00 ± 0.44	0.00 ± 0.33	0.00 ± 0.42	0.00 ± 0.51	
8-10-76	0.00 ± 0.44	0.00 ± 0.18	0.00 ± 0.68	0.00 ± 0.44	0.00 ± 0.42	0.00 ± 0.32	0.00 ± 0.26	0.00 ± 0.30	0.00 ± 0.38	
8-17-76	0.00 ± 1.02	0.00 ± 1.08	0.00 ± 0.62	0.00 ± 0.55	0.00 ± 0.60	0.00 ± 0.34	0.00 ± 0.29	0.00 ± 0.29	0.00 ± 0.40	
8-24-76	0.00 ± 1.12	0.00 ± 0.38	0.00 ± 0.60	0.00 ± 0.51	0.00 ± 1.80	0.00 ± 0.35	0.00 ± 0.32	0.00 ± 0.45	0.00 ± 0.45	
8-31-76	0.00 ± 0.76	0.00 ± 0.38	0.00 ± 1.22	0.00 ± 1.00	0.00 ± 1.00	0.00 ± 0.48	0.00 ± 0.39	Sample Lost	0.00 ± 0.93	
9-7-76	0.00 ± 0.62	0.00 ± 0.18	0.00 ± 0.74	0.00 ± 0.65	0.00 ± 0.72	0.00 ± 0.51	0.00 ± 0.37	0.00 ± 0.43	0.00 ± 0.55	
9-14-76	0.00 ± 0.52	0.00 ± 0.41	0.00 ± 0.56	0.00 ± 0.44	0.00 ± 0.46	0.00 ± 0.32	0.00 ± 0.29	0.00 ± 0.34	0.00 ± 0.47	
9-21-76	0.00 ± 0.35	0.00 ± 0.48	0.00 ± 0.37	0.00 ± 0.32	0.00 ± 0.24	0.00 ± 0.27	0.08 ± 0.20	0.00 ± 0.34	0.00 ± 0.28	
9-28-76	0.00 ± 1.54	0.00 ± 1.74	0.00 ± 1.84	0.00 ± 9.95	0.16 ± 0.54	0.20 ± 1.09	0.09 ± 1.07	0.00 ± 1.29	0.00 ± 0.48	
10-5-76	0.00 ± 1.92	0.41 ± 1.80	0.35 ± 2.08	0.52 ± 2.08	0.00 ± 1.84	0.00 ± 1.97	0.10 ± 1.59	0.16 ± 1.90	0.26 ± 1.76	
10-12-76	0.00 ± 0.86	0.07 ± 0.52	0.03 ± 0.73	0.01 ± 0.60	0.00 ± 0.63	0.03 ± 0.40	0.07 ± 0.40	0.00 ± 0.58	0.14 ± 0.67	
10-19-76	0.00 ± 0.65	0.00 ± 0.59	0.09 ± 0.70	0.00 ± 0.62	0.00 ± 0.64	0.00 ± 0.43	0.00 ± 0.42	0.00 ± 0.52	0.00 ± 0.57	
10-26-76	0.01 ± 0.59	0.00 ± 0.46	0.00 ± 0.60	0.06 ± 0.52	0.14 ± 0.54	0.00 ± 0.36	0.04 ± 0.29	0.02 ± 0.47	0.02 ± 0.48	
11-2-76	0.00 ± 8.85	0.00 ± 6.13	0.00 ± 6.42	0.00 ± 6.83	0.00 ± 5.51	0.00 ± 8.72	0.00 ± 6.77	0.00 ± 10.90	0.00 ± 4.75	
11-9-76	0.00 ± 12.50	0.00 ± 12.30	0.00 ± 17.90	0.00 ± 17.20	0.00 ± 14.10	0.00 ± 8.60	0.65 ± 6.67	0.00 ± 12.90	0.00 ± 16.20	
11-17-76	0.00 ± 5.28	0.00 ± 4.11	0.00 ± 4.98	0.00 ± 5.17	0.00 ± 5.20	0.00 ± 30.40	0.00 ± 2.13	0.00 ± 3.77	0.00 ± 4.54	
11-23-76	0.00 ± 3.77	0.67 ± 3.14	0.00 ± 0.29	0.00 ± 5.26	0.00 ± 3.54	0.00 ± 1.22	0.00 ± 2.12	0.00 ± 2.89	0.14 ± 1.14	
11-30-76	0.10 ± 1.20	0.00 ± 1.27	0.10 ± 1.53	0.00 ± 1.34	0.00 ± 1.51	0.17 ± 1.17	0.00 ± 0.80	0.00 ± 1.23	0.10 ± 0.85	
12-7-76	0.00 ± 0.86	0.00 ± 0.64	0.16 ± 0.87	0.00 ± 1.08	0.22 ± 0.96	0.00 ± 0.81	0.04 ± 0.72	0.24 ± 0.84	0.33 ± 1.14	
12-14-76	0.00 ± 3.70	0.00 ± 4.28	0.06 ± 2.80	0.13 ± 0.72	0.00 ± 4.93	0.07 ± 0.57	0.04 ± 0.69	0.05 ± 0.64	0.00 ± 0.56	
12-21-76	0.08 ± 4.09	2.09 ± 5.15	0.00 ± 5.15	0.31 ± 4.92	1.93 ± 5.56	0.20 ± 3.33	1.39 ± 5.23	0.00 ± 4.10	1.46 ± 4.72	
12-28-76	0.00 ± 3.45	0.00 ± 2.82	0.00 ± 13.00	0.02 ± 0.93	0.91 ± 2.67	0.00 ± 3.15	0.36 ± 3.53	1.65 ± 11.70	0.00 ± 12.40	

TABLE 15
ENVIRONMENTAL TLD READINGS
Total Dose in mRem $\pm 2\sigma$

TLD NO.	LOCATION	QUARTER			
		1st	2nd	3rd	4th
3	D1 On Site	*	30.9 \pm 5.4	38.2 \pm 7.8	22.1 \pm 9.6
4	D2 On Site	25.7 \pm 4.8	20.1 \pm 3.6	31.4 \pm 6.1	12.6 \pm 3.8
5	E On Site	16.4 \pm 4.9	15.9 \pm 4.5	20.6 \pm 6.2	12.1 \pm 4.8
6	F On Site	22.4 \pm 4.9	17.1 \pm 4.1	21.0 \pm 3.3	11.2 \pm 3.2
7	G On Site	14.0 \pm 5.1	16.7 \pm 3.5	19.6 \pm 6.3	10.0 \pm 3.0
8	C Off Site	17.6 \pm 4.6	18.1 \pm 3.6	21.5 \pm 5.8	12.6 \pm 3.2
9	D1 Off Site	17.2 \pm 3.8	16.9 \pm 5.4	19.3 \pm 5.6	10.3 \pm 2.7
10	D2 Off Site	15.0 \pm 4.7	15.7 \pm 4.4	18.6 \pm 4.4	10.1 \pm 4.0
11	E Off Site	15.9 \pm 3.3	14.5 \pm 5.0	19.6 \pm 5.1	10.7 \pm 3.3
12	F Off Site	*	14.5 \pm 5.8	*	10.6 \pm 2.4
13	G Off Site	17.0 \pm 4.4	13.9 \pm 4.8	21.3 \pm 2.8	10.9 \pm 3.4
14	SW Oswego	16.5 \pm 4.0	15.1 \pm 5.2	17.9 \pm 4.2	9.6 \pm 4.6
15	Pole 66, W. Bound	14.5 \pm 4.1	13.9 \pm 4.1	19.3 \pm 5.8	11.3 \pm 4.5
16	Pole 51, W. Bound	15.1 \pm 6.2	13.7 \pm 2.7	18.3 \pm 5.0	12.0 \pm 3.8
17	Prog. Cen. E. Yard	18.7 \pm 5.2	19.3 \pm 4.0	22.9 \pm 6.1	13.5 \pm 4.2
18	Prog. Cen. Picnic	17.3 \pm 5.1	14.9 \pm 2.9	19.6 \pm 5.4	11.7 \pm 3.0
19	Pole 9, E. Bound	15.9 \pm 3.7	16.7 \pm 5.7	20.3 \pm 3.3	*
20	JAF Shore, W. Bound	19.6 \pm 3.3	26.9 \pm 6.8	33.1 \pm 4.7	18.8 \pm 4.7
21	Pole 67, E. Bound	17.8 \pm 3.8	13.9 \pm 4.1	21.0 \pm 6.5	11.9 \pm 2.5
22	Pole 53, E. Bound	14.6 \pm 4.4	13.1 \pm 3.6	21.5 \pm 3.8	11.8 \pm 3.6
23	H	19.3 \pm 2.6	24.3 \pm 5.4	28.9 \pm 6.4	15.4 \pm 1.8
24	I	19.1 \pm 3.7	17.9 \pm 3.6	23.8 \pm 3.1	47.4 \pm 7.7
25	J	16.6 \pm 3.7	15.3 \pm 3.5	20.6 \pm 6.6	11.4 \pm 3.1
26	K	18.8 \pm 2.8	*	56.3 \pm 6.3	11.2 \pm 4.0
27	Light Pole(N) JAF	31.6 \pm 4.8	55.9 \pm 10.8	20.2 \pm 4.1	12.2 \pm 2.7
28	Light Pole(NW) JAF	26.8 \pm 9.9	43.3 \pm 8.6	90.9 \pm 19.1	24.7 \pm 7.5
29	N. Fence (E) JAF	71.0 \pm 13.8	81.3 \pm 9.6	169.9 \pm 10.4	132.4 \pm 16.6
30	N. Fence (ME) JAF	41.2 \pm 8.8	101.7 \pm 18.1	145.8 \pm 26.8	76.7 \pm 12.3
31	N. Fence (MW) NMP	41.8 \pm 9.8	35.1 \pm 6.4	58.3 \pm 9.7	28.7 \pm 6.5
32	N. Fence (W) NMP	77.2 \pm 13.7	*	39.6 \pm 5.4	18.8 \pm 7.6
33	NMP/JAF, Twin Pole (W) of JAF W. Fence	24.9 \pm 6.2	35.1 \pm 6.6	43.5 \pm 3.9	22.6 \pm 5.3
34	N of Unit 2 on Lake	31.4 \pm 6.9	31.5 \pm 7.8	28.0 \pm 7.4	15.9 \pm 4.8
35	E of Unit 2 on Stor. Bldg.	*	25.7 \pm 5.1	23.6 \pm 6.1	12.5 \pm 4.0
36	Pole Tower, FNM-13	19.6 \pm 5.7	21.5 \pm 6.9	26.0 \pm 8.0	13.1 \pm 3.0
37	Pole Tower, FNM-14	26.8 \pm 4.7	27.5 \pm 4.3	30.8 \pm 6.4	15.0 \pm 4.1
38	SE End of Shop on Fence	29.8 \pm 6.6	29.7 \pm 5.7	32.4 \pm 5.4	16.8 \pm 4.8
39	NMP-1 ME Gate	384.5 \pm 38.4	382.3 \pm 28.5	441.2 \pm 79.7	249.1 \pm 54.0
40	NE Gate, NMP-1	71.8 \pm 9.5	82.5 \pm 8.4	60.1 \pm 13.2	56.9 \pm 5.7

*TLD missing

TABLE 16

CONTINUOUS RADIATION MONITORS* (GM)
 mr/hr
 1st HALF

LOCATION	PERIOD	MIN.	AVE.	MAX.
C Off-Site	January	.010	.013	.020
	February	.010	.013	.020
	March	.010	.012	.020
	April	.018	.023	.040
	May	.017	.024	.038
	June	.010	.025	.030
D ₁ On-Site	January	.045	.045	.050
	February	.038	.040	.050
	March	.045	.055	.060
	April	.034	.050	.090
	May	.015	.045	.100
	June	.019	.045	.200
D ₂ On-Site	January	.025	.035	.045
	February	.018	.020	.040
	March	.013	.018	.022
	April	.012	.020	.033
	May	.010	.025	.060
	June	.012	.040	.025
E On-Site	January	.010	.013	.022
	February	.010	.015	.022
	March	.011	.014	.020
	April	.010	.015	.032
	May	.010	.015	.050
	June	.010	.015	.048
F On-Site	January	.010	.014	.018
	February	.010	.014	.022
	March	.010	.013	.018
	April	.010	.015	.032
	May	.010	.018	.068
	June	.010	.015	.062

*Detectors are 'bugged' to insure onscale readings.

TABLE 16 (Cont.)

CONTINUOUS RADIATION MONITORS

LOCATION	PERIOD	MIN.	AVE.	MAX.
G On-Site	January	.010	.013	.020
	February	.010	.013	.020
	March	.010	.012	.020
	April	.010	.015	.032
	May	.010	.015	.080
	June	.010	.015	.061
H On-Site	January	.010	.012	.018
	February	.010	.011	.019
	March	.010	.017	.029
	April	.015	.020	.048
	May	.015	.020	.050
	June	.015	.020	.075
I On-Site	January	.028	.030	.035
	February	.024	.030	.070
	March	.027	.032	.230
	April	.015	.040	1.500
	May	.010	.090	.420
	June	.010	.015	.075
J On-Site	January	.010	.012	.017
	February	.010	.012	.018
	March	.010	.015	.020
	April	.014	.018	.037
	May	.010	.020	.054
	June	.010	.020	.065
K On-Site	January	.012	.017	.030
	February	.013	.017	.023
	March	.015	.019	.022
	April	.012	.019	.044
	May	.013	.020	.060
	June	.011	.019	.058

TABLE 16 (Cont.)

CONTINUOUS RADIATION MONITORS
2nd HALF

LOCATION	PERIOD	MIN.	MAX.	AVE.
C Off-Site	July	.010	.035	.025
	August	.019	.035	.025
	September	.018	.049	.025
	October	.018	.041	.025
	November	.018	.045	.025
	December	.017	.048	.022
D ₁ On-Site	July	.018	.062	.030
	August	.020	.051	.029
	September	.025	.095	.030
	October	.010	.041	.028
	November	.010	.048	.029
	December	.010	.044	.029
D ₂ On-Site	July	.015	.052	.020
	August	.010	.037	.020
	September	.012	.030	.020
	October	.012	.028	.020
	November	.011	.040	.018
	December	.010	.098	.020
E On-Site	July	.010	.023	.013
	August	.010	.021	.014
	September	.010	.022	.015
	October	.010	.022	.013
	November	.010	.049	.019
	December	.014	.040	.018
F On-Site	July	.010	.048	.018
	August	.010	.027	.015
	September	.010	.031	.015
	October	.010	.020	.013
	November	.010	.035	.014
	December	.010	.021	.013
G On-Site	July	.010	.048	.014
	August	.010	.020	.013
	September	.010	.049	.020
	October	.020	.049	.030
	November	.020	.048	.030
	December	.018	.051	.030

TABLE 16 (Cont.)

CONTINUOUS RADIATION MONITORS

LOCATION	PERIOD	MIN.	MAX.	AVE.
H On-Site	July	.015	.031	.020
	August	.015	.035	.020
	September	.013	.032	.020
	October	.010	.038	.020
	November	.013	.049	.025
	December	.018	.041	.028
I On-Site	July	.010	.048	.013
	August	.010	.025	.013
	September	.010	.025	.016
	October	.010	.046	.017
	November	.010	.030	.020
	December	.010	.031	.015
J On-Site	July	.010	.049	.020
	August	.012	.030	.018
	September	.010	.072	.018
	October	.010	.028	.018
	November	.015	.035	.025
	December	.017	.040	.025
K On-Site	July	.011	.052	.017
	August	.011	.033	.018
	September	.011	.028	.018
	October	.010	.025	.015
	November	.010	.022	.015
	December	.010	.023	.015

TABLE 17

IODINE-131 IN MILK
pCi/l

<u>Collection Date</u>	<u>Counting Date</u>	<u>#1</u>	<u>#2</u>	<u>#3</u>	<u>#4</u>
05/24/76	06/02/76	0.00±0.36	0.00±0.15	0.00±0.25	1±0.20
06/14/76	06/21/76	0.33±0.37	0.04±0.17	0.20±0.20	0.00±0.15
06/28/76	07/07/76	0.18±0.15	0.00±0.12	0.39±0.10	0.35±0.06
07/12/76	07/22/76	0.15±0.24	0.33±0.24	0.77±0.25	0.27±0.27
07/26/76	08/02/76	0.06±0.10	0.27±0.12	0.06±0.09	0.27±0.10
08/09/76	08/17/76	0.00±0.26	0.37±0.14	0.28±0.27	(a)
08/23/76	08/31/76	0.00±0.12	0.00±0.12	0.00±0.12	0.33±0.16
09/07/76	09/15/76*	0.18±0.10	0.00±0.08	0.08±0.14	0.26±0.14
09/20/76	09/28/76	0.04±0.16	0.00±0.17	0.26±0.17	0.34±0.15
10/04/76	10/08/76	0.00±0.03	0.02±0.04	0.02±0.04	0.06±0.04
10/08/76	10/15/76	6.30±0.10	5.70±0.10	3.95±0.16	12.30±0.20
10/18/76	10/22/76	9.80±0.30	19.30±0.50	2.83±0.16	45.00±1.00
11/01/76	11/04/76	7.70±0.30	3.40±0.20	0.60±0.10	19.90±0.40
11/15/76	11/19/76	1.50±0.20	0.00±0.20	0.24±0.19	0.20±0.10
11/29/76	12/03/76	0.70±0.20	0.20±0.20	0.70±0.13	0.10±0.20

(a) Lost in processing

*Sample #1 and Sample #2 were counted on 09/17/76.

TABLE 18

GAMMA ISOTOPIC AND STRONTIUM-90 IN MILK SAMPLES

Collection Site	Collection Date	pCi/l			
		K-40	Cs-137	Sr-90	Other Gamma*
#1	May	1003± 83	0.0±5.0	3.5±2.7	0±5
	May	1048± 84	0.0±5.0	6.5±3.1	0±5
	June	1332± 95	0.0±5.0	5.0±5.0	0±5
	June	1046±204	9.0±1.0	0.0±4.1**	0±5
#2	May	1174± 89	15.0±3.0	10.8±2.2	0±5
	May	1074± 28	10.0±1.0	12.5±2.6	0±5
	June	1051± 85	12.0±2.0	5.1±5.1	0±5
	June	1042± 91	10.0±2.0	9.2±4.1	0±5
#3	May	1055± 85	0.0±5.0	5.6±1.5	0±5
	May	898± 78	0.0±5.0	5.5±3.2	0±5
	June	1017± 83	10.0±2.0	3.7±2.6	0±5
	June	1018± 83	0.0±5.0	0.0±3.5	0±5
#4	May	1228± 91	8.0±2.0	10.9±2.2	0±5
	May	1023± 83	0.0±5.0	11.9±3.9	0±5
	June	1149± 63	8.0±2.0	11.3±5.1	0±5
	June	1038± 84	12.0±2.0	14.8±3.4	0±5

*The spectrum is computer scanned from ~20 to ~2000 KeV. Specifically included are Ce-144, Ba-La-140, Cs-134, Cs-137, Zr-Nb-95, Co-58, Co-60, Mn-54, Zn-65. Naturally occurring gamma emitters such as K-40 and Ra daughters are frequently detected but not listed here.

**Laboratory problems in processing sample; insufficient sample remaining for more sensitive analysis.

TABLE 18 (Cont.)

GAMMA ISOTOPIC AND STRONTIUM-90 IN MILK SAMPLES

Collection Site	Collection Date	pCi/l			
		K-40	Cs-137	Sr-90	Other Gamma*
#1	July	1052± 85	0.0±5.0	0.0±4.5	0±5
	August	1047± 84	9.0±2.0	4.0±2.0	0±5
	September	1061± 85	0.0±5.0	0.0±3.0**	0±5
	October	1091± 86	0.0±5.0	4.6±1.6	0±5
	October	1027±118	0.0±5.0	3.9±2.3	0±5
#2	July	1046± 84	4.1±3.0	2.6±1.6	0±5
	August	1146± 88	11.7±2.3	1.5±1.0	0±5
	September	1085± 86	0.0±5.0	8.2±3.0	0±5
	October	1243± 92	0.0±5.0	8.5±1.8	0±5
	October	1040±119	0.0±5.0	11.1±2.5	0±5
#3	July	867± 77	5.4±1.5	0.0±3.0	0±5
	August	979± 82	0.0±5.0	8.0±3.0	0±5
	September	943± 80	0.0±5.0	5.3±3.0	0±5
	October	1063± 85	0.0±5.0	4.5±1.3	0±5
	October	945±113	0.0±5.0	4.7±1.4	0±5
#4	July	1175± 89	7.3±1.8	0.0±1.0	0±5
	August	1098± 86	0.0±5.0	0.0±3.2	0±5
	September	924± 33	4.0±2.0	6.1±4.0	0±5
	October	1057± 85	13.2±2.4	10.5±2.1	0±5
	October	1200±128	0.0±5.0	7.9±1.6	

*The spectrum is computer scanned from ~20 to ~2000 KeV. Specifically included are Ce-144, Ba-La-140, Cs-134, Cs-137, Zr-Nb-95, Co-58, Co-60, Mn-54, Zn-65. Naturally occurring gamma emitters such as K-40 and Ra daughters are frequently detected but not listed here.

**Analytical problems left insufficient sample for more sensitive analysis.

TABLE 19
MILKING DAIRY CATTLE
WITHIN A TEN MILE RADIUS OF
NINE MILE POINT

JULY 31, 1976

<u>TOWN</u>	<u># ON MAP</u>	<u>OWNER</u>	<u>NO. OF DAIRY CATTLE</u>
<u>New Haven</u>	20	Allen, J.	40
	*33	Burton, F.	35
	21	Clark, G.	50
	19	Clark, T.	26
	22	Landphere, F.	40
	*24	Piersall, S.	1
	23	Stevens, S.	9
	25	Jerrett, G.	35
	*26	Williams, H.	1
<u>Richland</u>	27	Crandall, R.	30
	28	Krebs, R.	55
	30	Brosman, D.	30
	29	Minckler, N.	41
<u>Volney</u>	31	Sweet, J.	21
	32	Turner, W.	35
<u>Palermo</u>	18	Kono, E.	5
<u>Mexico</u>	1	Dexter, G.	30
	5	DeLong, C.	32
	4	DeLong, E.	20
	3	DeLong, J.	45
	10	Frey, H.	14
	35	Hurlbut, H.	60
	-	Ladd, J.	2
	7	Landphere, R.	35
	8	Monson, R.	50
	11	Parkhurst, E.	34
	15	Rose, D.	110
	9	Rude, K.	35
	-	Sherman, W.	42
	14	Stowell, C.	20
	12	Wallis, W.	25
	6	Wood, H.	8
	13	Zakala, Mike	20
	-	Sutton, (New Haven)	7
<u>Oswego</u>	34	Mitchelson Bros.	30

*Within 5 mile radius of Nine Mile Point reactors.

TABLE 19 (Cont.)

<u>TOWN</u>	<u># ON MAP</u>	<u>OWNER</u>	<u>NO. OF DAIRY CATTLE</u>
<u>Scriba</u>	*39	Cliff, T.	10
	*38	Coe, J.	30
	*40	Foskick, D.	2
	*36	France, S.	22
	17	Jones, R. & Son	39
	*41	Kennedy, H.	3
	*16	Krul, S. and J.	75
	42	McCaw, S.	Would not Cooperate
	43	Meyers, E.	3
	*37	Parkhurst, C.	20
	*44	Richardson, R.	1
	*45	Waterman, J.	3

TABLE 19 (Cont.)

MILKING DAIRY CATTLE
WITHIN A TEN MILE RADIUS OF
NINE MILE POINT

SEPTEMBER 30, 1976 CENSUS

<u>TOWN</u>	<u># ON MAP</u>	<u>OWNER</u>	<u>NO. OF DAIRY CATTLE</u>
<u>New Haven</u>	20	Allen, J.	35
	*33	Burton, F.	40
	21	Clark, G.	52
	19	Clark, T.	26
	22	Landphere, F.	40
	*24	Piersall, S.	1
	23	Stevens, S.	10
	25	Jerrett, G.	45
	*26	Williams, H.	2
	2	Sutton	7
<u>Richland</u>	27	Grandall, R.	35
	28	Krebs, R.	55
	30	Brosman, D.	30
	29	Minckler, N.	45
<u>Volney</u>	31	Sweet, J.	21
	32	Turner, W.	35
<u>Palermo</u>	18	Kono E.	5
<u>Mexico</u>	1	Dexter, G.	30
	5	DeLong, C.	32
	4	DeLong, E.	22
	3	DeLong, J.	45
	10	Frey, H.	20
	35	Hurlbut, H.	60
	7	Landphere, R.	45
	8	Monson, R.	45
	11	Parkhurst, E.	34
	15	Rose, D.	100
	9	Rude, K.	38
	-	Sherman, W.	39
	14	Stowell, C.	20
	12	Wallis, W.	35
	6	Wood, H.	8
	13	Zakala, M.	20
<u>Oswego</u>	*39	Mitchelson Bros.	30
<u>Scriba</u>	*39	Cliff, T.	10
	*38	Coe, J.	30
	*40	Fosdick, D.	4
	*36	France, S.	22
	17	Jones, R. & Son	39
	*41	Kennedy, H.	3
	*16	Krul, S. and J.	70

TABLE 19 (Cont.)

MILKING DAIRY CATTLE
WITHIN A TEN MILE RADIOUS OF
NINE MILE POINT

SEPTEMBER 30, 1976 CENSUS (Cont.)

<u>TOWN</u>	<u># ON MAP</u>	<u>OWNER</u>	<u>NO. OF DAIRY CATTLE</u>
<u>Scriba (Cont.)</u>	42	McCaw, S.	50
	43	Meyers, E.	2
	*37	Parkhurst, C.	20
	*44	Richardson, R.	1
	*45	Waterman, J.	3

MILKING GOATS
WITHIN A TEN MILE RADIUS OF
NINE MILE POINT

<u>TOWN</u>	<u>NAME</u>	<u>NO. OF MILKING GOATS</u>
<u>New Haven</u>	*H. Williams	21 goats
	M. Lackey	2 goats

TABLE 20

GAMMA ISOTOPIC ANALYSIS OF PRODUCE

<u>Collection Site</u>	<u>Collection Date</u>	<u>Sample Type</u>	<u>pCi/g (Wet)</u>		<u>Gamma*</u>
			<u>I-131</u>	<u>Cs-137</u>	
#1	08/30/76	Green Beans & Tomatoes	0±1	0±1	0±1
#17	08/28/76	Corn	0±1	0±1	0±1
#18	08/27/76	Cucumbers	0±1	0±1	0±1

GAMMA ISOTOPIC ANALYSIS OF CHICKEN EGGS

<u>Collection Site</u>	<u>Collection Date</u>	<u>pCi/g</u>	
		<u>Cs-137</u>	<u>Gamma Emitters*</u>
#5	06/28/76	0±1	0±1
#6	06/28/76	0±1	0±1
#7	06/28/76	0±1	0±1
#8	11/08/76	0±1	0±1
#9	11/08/76	0±1	0±1
#10	11/08/76	0±1	0±1

GAMMA ISOTOPIC ANALYSIS OF MEAT

<u>Collection Site</u>	<u>Collection Date</u>	<u>Sample Type</u>	<u>pCi/g (Wet)</u>		<u>Gamma*</u>
			<u>I-131</u>	<u>Cs-137</u>	
#6	06/28/76	Rooster	0±1	0±1	0±1
#8	06/28/76	Hen	0±1	0±1	0±1
#11	06/28/76	Duck	0±1	0±1	0±1
#12	07/06/76	Beef	0±1	0±1	0±1
#13	07/08/76	Beef	0±1	0±1	0±1
#14	11/10/76	Pork	0±1	0±1	0±1
#15	11/10/76	Beef	0±1	0±1	0±1
#10	11/10/76	Beef	0±1	0±1	0±1
#10	11/08/76	Chicken	0±1	0±1	0±1
#10	11/08/76	Chicken	0±1	0±1	0±1
#16	11/08/76	Duck	0±1	0±1	0±1

*The spectrum is computer scanned from ~20 to ~2000 KeV. Specifically included are Ce-144, Ba-La-140, Cs-134, Cs-137, Zr-Nb-95, Co-58, Co-60, Mn-54, Zn-65. Naturally occurring gamma emitters such as K-40 and Ra daughters are frequently detected but not listed here.