
Attachment 1

to the
ANNUAL ENVIRONMENTAL OPERATING REPORT:

Radiological Environmental Monitoring

Program Sample Analysis Results

for

Davis-Besse Nuclear Power Station

January 1, 1990 to December 31, 1990

Prepared by:

Radiological Environmental

Davis-Besse Nuclear Power Station

Toledo Edison Company

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Introduction

Attachment 1 to the Davis-Besse Nuclear Power Station 1990 Annual Environmental Operating Report (AEOR) includes the results of analysis of all radiological environmental radiation measurements taken as part of the 1990 Radiological Environmental Monitoring Program (REMP). The summaries provided in Appendix E and throughout the text of the 1990 AEOR are based on the data presented in the following table.

Data tabulation and sample analyses results were provided by Teledyne Isotopes Midwest Laboratory (TIML) in the TIML annual report to Toledo Edison (Part II, Feb 1991).

Table 1. Airborne particulates and iodine collected at Location T-1, analyses for gross beta and iodine-131.^a

Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)	Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)
01-08-90	228 ^b	0.035±0.005	07-09-90	283	0.011±0.003
01-15-90	258	0.023±0.004	07-16-90	289	0.012±0.003
01-22-90	259	0.020±0.004	07-23-90	284	0.020±0.003
01-29-90	262	0.024±0.004	07-30-90	291	0.016±0.004
02-05-90	266	0.019±0.003	08-06-90	300	0.020±0.004
02-12-90	256	0.017±0.004	08-13-90	297	0.016±0.003
02-19-90	260	0.019±0.003	08-20-90	294	0.017±0.003
02-26-90	257	0.022±0.004	08-27-90	301	0.011±0.003
03-05-90	251	0.027±0.004	09-04-90	327	0.024±0.003
03-12-90	262	0.020±0.003	09-10-90	235	0.027±0.005
03-19-90	262	0.017±0.003	09-17-90	300	0.020±0.004
03-26-90	273	0.027±0.003	09-24-90	312	0.018±0.004
04-02-90	250	0.014±0.003	10-01-90	311	0.030±0.004
1st Qtr mean±s.d.		0.022±0.006	3rd Qtr mean±s.d.		0.019±0.006
04-09-90	274	0.015±0.003	10-08-90	308	0.019±0.004
04-16-90	299	0.021±0.003	10-15-90	317	0.010±0.002
04-23-90	289	0.023±0.003	10-22-90	314	0.022±0.003
04-30-90	288	0.021±0.003	10-29-90	320	0.018±0.003
05-07-90	289	0.017±0.003	11-05-90	308	0.032±0.004
05-14-90	287	0.016±0.003	11-12-90	324	0.020±0.003
05-21-90	289	0.011±0.002	11-19-90	296	0.022±0.003
05-28-90	313	0.014±0.003	11-26-90	329	0.030±0.003
06-04-90	312	0.011±0.003	12-03-90	306	0.023±0.002
06-11-90	308	0.009±0.003	12-10-90	337	0.022±0.003
06-18-90	306	0.015±0.003	12-17-90	303	0.021±0.003
06-25-90	287	0.015±0.002	12-24-90	306	0.018±0.003
07-02-90	298	0.016±0.003	12-31-90	284	0.028±0.004
2nd Qtr mean±s.d.		0.016±0.004	4th Qtr mean±s.d.		0.022±0.006

^a Iodine-131 concentrations are <0.07 pCi/m³ unless noted otherwise in Appendix C.

^b Pump ran for 6 days.

Table 2. Airborne particulates and iodine collected at Location T-2, analyses for gross beta and iodine-131.^a

Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)	Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)
01-08-90	237 ^b	0.031±0.004	07-09-90	290	0.014±0.003
01-15-90	300	0.021±0.003	07-16-90	282	0.011±0.003
01-22-90	271	0.014±0.003	07-23-90	284	0.019±0.003
01-29-90	293	0.019±0.003	07-30-90	286	0.019±0.004
02-05-90	260	0.013±0.003	08-06-90	275	0.017±0.004
02-12-90	283	0.016±0.003	08-13-90	289	0.020±0.003
02-19-90	283	0.007±0.003	08-20-90	280	0.017±0.003
02-26-90	270	0.017±0.003	08-27-90	289	0.012±0.003
03-05-90	270	0.023±0.004	09-04-90	321	0.026±0.003
03-12-90	283	0.017±0.003	09-10-90	242	0.027±0.005
03-19-90	282	0.012±0.003	09-17-90	281	0.023±0.004
03-26-90	276	0.027±0.003	09-24-90	273	0.016±0.004
04-02-90	280	0.009±0.003	10-01-90	281	0.028±0.004
1st Qtr mean±s.d.		0.017±0.007	3rd Qtr mean±s.d.		0.019±0.006
04-09-90	285	0.016±0.003	10-08-90	272	0.025±0.004
04-16-90	279	0.021±0.003	10-15-90	279	0.010±0.003
04-23-90	278	0.018±0.003	10-22-90	282	0.020±0.003
04-30-90	292	0.021±0.003	10-29-90	268	0.015±0.003
05-07-90	283	0.018±0.003	11-05-90	284	0.032±0.004
05-14-90	286	0.015±0.003	11-12-90	275	0.020±0.003
05-21-90	285	0.010±0.002	11-19-90	279	0.028±0.004
05-28-90	282	0.014±0.003	11-26-90	282	0.031±0.004
06-04-90	285	0.011±0.003	12-03-90	271	0.026±0.003
06-11-90	286	0.010±0.003	12-10-90	269	0.020±0.003
06-18-90	288	0.014±0.003	12-17-90	298	0.021±0.003
06-25-90	284	0.016±0.002	12-24-90	292	0.023±0.003
07-02-90	288	0.016±0.003	12-31-90	288	0.026±0.004
2nd Qtr mean±s.d.		0.015±0.004	4th Qtr mean±s.d.		0.023±0.006

^a Iodine-131 concentrations are <0.07 pCi/m³ unless noted otherwise in Appendix C.

^b Pump ran for 6 days.

Table 3. Airborne particulates and iodine collected at Location T-3, analyses for gross beta and iodine-131.^a

Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)	Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)
01-08-90	211 ^b	0.035±0.005	07-09-90	289	0.014±0.003
01-15-90	260	0.024±0.004	07-16-90	288	0.013±0.003
01-22-90	239	0.020±0.004	07-23-90	290	0.019±0.003
01-29-90	250	0.022±0.004	07-30-90	292	0.021±0.004
02-05-90	285	0.016±0.003	08-06-90	288	<0.004 ^c
02-12-90	286	0.016±0.003	08-13-90	278	0.014±0.003
02-19-90	280	0.016±0.003	08-20-90	286	0.015±0.003
02-26-90	282	0.019±0.003	08-27-90	284	0.011±0.003
03-05-90	283	0.022±0.003	09-04-90	326	0.025±0.003
03-12-90	293	0.019±0.003	09-10-90	246	0.026±0.004
03-19-90	285	0.012±0.003	09-17-90	287	0.020±0.004
03-26-90	284	0.027±0.003	09-24-90	291	0.020±0.004
04-02-90	282	0.010±0.003	10-01-90	286	0.029±0.004
1st Qtr mean±s.d.		0.020±0.006	3rd Qtr mean±s.d.		0.019±0.006
04-09-90	295	0.014±0.003	10-08-90	282	0.022±0.004
04-16-90	288	0.019±0.003	10-15-90	281	0.020±0.003
04-23-90	283	0.022±0.003	10-22-90	288	0.019±0.003
04-30-90	288	0.024±0.003	10-29-90	289	0.015±0.003
05-07-90	287	0.017±0.003	11-05-90	287	0.033±0.004
05-14-90	290	0.017±0.003	11-12-90	287	0.017±0.003
05-21-90	289	0.010±0.002	11-19-90	283	0.028±0.004
05-28-90	289	0.012±0.003	11-26-90	287	0.030±0.004
06-04-90	290	0.006±0.002	12-03-90	282	0.026±0.003
06-11-90	288	0.010±0.003	12-10-90	290	0.024±0.003
06-18-90	287	0.015±0.003	12-17-90	275	0.022±0.004
06-25-90	287	0.013±0.002	12-24-90	303	0.024±0.003
07-02-90	288	0.016±0.003	12-31-90	275	0.026±0.004
2nd Qtr mean±s.d.		0.015±0.005	4th Qtr mean±s.d.		0.024±0.005

^a Iodine-131 concentrations are <0.07 pCi/m³ unless noted otherwise in Appendix C.

^b Pump ran for 6 days.

^c Filter paper very light; probable pump malfunction.

Table 4. Airborne particulates and iodine collected at Location T-4, analyses for gross beta and iodine-131.^a

Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)	Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)
01-08-90	250 ^b	0.034±0.004	07-09-90	284	0.015±0.003
01-15-90	287	0.023±0.004	07-16-90	284	0.011±0.003
01-22-90	289	0.017±0.003	07-23-90	292	0.018±0.003
01-29-90	288	0.022±0.003	07-30-90	289	0.020±0.004
02-05-90	289	0.013±0.003	08-06-90	284	0.018±0.004
02-12-90	289	0.019±0.003	08-13-90	290	0.014±0.003
02-19-90	291	0.015±0.003	08-20-90	284	0.018±0.003
02-26-90	294	0.018±0.003	08-27-90	290	0.009±0.003
03-05-90	289	0.021±0.003	09-04-90	333	0.020±0.003
03-12-90	285	0.015±0.003	09-10-90	244	0.032±0.005
03-19-90	288	0.012±0.003	09-17-90	297	0.025±0.004
03-26-90	283	0.027±0.003	09-24-90	289	0.016±0.004
04-02-90	297	0.011±0.003	10-01-90	287	0.027±0.004
1st Qtr mean±s.d.		0.019±0.006	3rd Qtr mean±s.d.		0.019±0.007
04-09-90	286	0.015±0.003	10-08-90	283	0.023±0.004
04-16-90	286	0.021±0.003	10-15-90	289	0.010±0.003
04-23-90	285	0.022±0.003	10-22-90	281	0.022±0.003
04-30-90	286	0.023±0.003	10-29-90	300	0.018±0.003
05-07-90	289	0.018±0.003	11-05-90	292	0.029±0.004
05-14-90	290	0.016±0.003	11-12-90	293	0.019±0.003
05-21-90	285	0.014±0.002	11-19-90	292	0.027±0.003
05-28-90	289	0.011±0.003	11-26-90	295	0.038±0.004
06-04-90	285	0.013±0.003	12-03-90	288	0.022±0.002
06-11-90	286	0.009±0.003	12-10-90	299	0.026±0.003
06-18-90	286	0.014±0.003	12-17-90	288	0.021±0.003
06-25-90	290	0.016±0.002	12-24-90	294	0.024±0.003
07-02-90	290	0.020±0.003	12-31-90	288	0.024±0.004
2nd Qtr mean±s.d.		0.016±0.004	4th Qtr mean±s.d.		0.023±0.006

^a Iodine-131 concentrations are <0.07 pCi/m³ unless noted otherwise in Appendix C.

^b Pump ran for 6 days.

Table 5. Airborne particulates and iodine collected at Location T-7, analyses for gross beta and iodine-131.^a

Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)	Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)
01-08-90	243 ^b	0.032±0.004	07-09-90	288	0.014±0.003
01-15-90	285	0.022±0.004	07-16-90	284	0.012±0.003
01-22-90	283	0.020±0.003	07-23-90	292	0.021±0.003
01-29-90	285	0.019±0.003	07-30-90	290	0.018±0.004
02-05-90	285	0.016±0.003	08-06-90	281	0.019±0.004
02-12-90	285	0.017±0.003	08-13-90	292	0.016±0.003
02-19-90	285	0.016±0.003	08-20-90	290	0.018±0.003
02-26-90	286	0.019±0.003	08-27-90	282	0.012±0.003
03-05-90	285	0.020±0.003	09-04-90	321	0.032±0.004
03-12-90	286	0.018±0.003	09-10-90	33 ^c	<0.005
03-19-90	285	0.013±0.003	09-17-90	285	0.024±0.004
03-26-90	286	0.026±0.003	09-24-90	291	0.018±0.004
04-02-90	285	0.013±0.003	10-01-90	290	0.032±0.004
1st Qtr mean±s.d.		0.019±0.005	3rd Qtr mean±s.d.		0.020±0.007
04-09-90	287	0.014±0.004	10-08-90	290	0.016±0.004
04-16-90	285	0.018±0.003	10-15-90	291	0.009±0.003
04-23-90	286	0.021±0.003	10-22-90	291	0.020±0.003
04-30-90	286	0.019±0.003	10-29-90	293	0.020±0.003
05-07-90	283	0.020±0.003	11-05-90	289	0.037±0.004
05-14-90	285	0.017±0.003	11-12-90	291	0.024±0.003
05-21-90	286	0.013±0.002	11-19-90	290	0.028±0.003
05-28-90	274	0.013±0.003	11-26-90	291	0.035±0.004
06-04-90	287	0.010±0.003	12-03-90	290	0.017±0.003
06-11-90	285	0.011±0.003	12-10-90	287	0.020±0.003
06-18-90	285	0.013±0.003	12-17-90	271	0.022±0.003
06-25-90	285	0.016±0.002	12-24-90	278	0.022±0.003
07-02-90	294	0.019±0.003	12-31-90	273	0.024±0.004
2nd Qtr mean±s.d.		0.016±0.004	4th Qtr mean±s.d.		0.023±0.007

^a Iodine-131 concentrations are <0.07 pCi/m³ unless noted otherwise in Appendix C.

^b Pump ran for 6 days.

^c LLD for I-131 not reached due to low volume; blown fuse found in pump and pump ran only 19.4 hours. I-131 concentration <0.34 pCi/m³.

Table 6. Airborne particulates and iodine collected at Location T-8, analyses for gross beta and iodine-131.^a

Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)	Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)
01-08-90	246 ^b	0.031±0.004	07-09-90	267	0.017±0.003
01-15-90	304	0.026±0.004	07-16-90	282	0.014±0.003
01-22-90	281	0.018±0.003	07-23-90	276	0.022±0.004
01-29-90	284	0.022±0.003	07-30-90	280	0.024±0.004
02-05-90	283	0.018±0.003	08-06-90	265	0.020±0.004
02-12-90	285	0.015±0.003	08-13-90	271	0.020±0.004
02-19-90	294	0.015±0.003	08-20-90	280	0.018±0.003
02-26-90	285	0.016±0.003	08-27-90	282	0.010±0.003
03-05-90	284	0.023±0.003	09-04-90	340	0.029±0.003
03-12-90	311	0.020±0.003	09-10-90	240	0.033±0.005
03-19-90	316	0.012±0.003	09-17-90	299	0.023±0.004
03-26-90	288	0.027±0.003	09-24-90	285	0.017±0.004
04-02-90	283	0.012±0.003	10-01-90	289	0.035±0.004
1st Qtr mean±s.d.		0.020±0.006	3rd Qtr mean±s.d.		0.022±0.007
04-09-90	278	0.016±0.003	10-08-90	272	0.029±0.005
04-16-90	278	0.021±0.003	10-15-90	282	0.010±0.003
04-23-90	275	0.023±0.003	10-22-90	282	0.023±0.004
04-30-90	275	0.024±0.004	10-29-90	285	0.017±0.003
05-07-90	273	0.016±0.003	11-05-90	281	0.034±0.004
05-14-90	274	0.016±0.003	11-12-90	287	0.020±0.003
05-21-90	279	0.012±0.002	11-19-90	277	0.030±0.004
05-28-90	270	0.013±0.003	11-26-90	280	0.033±0.004
06-04-90	280	0.013±0.003	12-03-90	284	0.010±0.002
06-11-90	273	0.011±0.003	12-10-90	249	0.020±0.004
06-18-90	280	0.015±0.003	12-17-90	287	0.019±0.003
06-25-90	273	0.014±0.002	12-24-90	285	0.022±0.003
07-02-90	283	0.015±0.003	12-31-90	279	0.025±0.004
2nd Qtr mean±s.d.		0.016±0.004	4th Qtr mean±s.d.		0.022±0.008

^a Iodine-131 concentrations are <0.07 pCi/m³ unless noted otherwise in Appendix C.

^b Pump ran for 6 days.

Table 7. Airborne particulates and iodine collected at Location T-9, analyses for gross beta and iodine-131.^a

Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)	Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)
01-08-90	248 ^b	0.032±0.004	07-09-90	283	0.016±0.003
01-15-90	288	0.021±0.003	07-16-90	290	0.010±0.003
01-22-90	266	0.014±0.003	07-23-90	293	0.020±0.003
01-29-90	282	0.017±0.003	07-30-90	290	0.022±0.004
02-05-90	285	0.017±0.003	08-06-90	291	0.020±0.004
02-12-90	285	0.015±0.003	08-13-90	295	0.017±0.003
02-19-90	285	0.014±0.003	08-20-90	287	0.019±0.003
02-26-90	286	0.015±0.003	08-27-90	295	0.013±0.003
03-05-90	285	0.022±0.003	09-04-90	320	0.025±0.003
03-12-90	286	0.018±0.003	09-10-90	245	0.029±0.005
03-19-90	285	0.010±0.003	09-17-90	295	0.024±0.004
03-26-90	286	0.026±0.003	09-24-90	287	0.018±0.004
04-02-90	290	0.009±0.003	10-01-90	291	0.027±0.004
1st Qtr mean±s.d.		0.018±0.006	3rd Qtr mean±s.d.		0.020±0.005
04-09-90	288	0.015±0.003	10-18-90	290	0.021±0.004
04-16-90	284	0.020±0.003	10-15-90	298	0.009±0.003
04-23-90	286	0.018±0.003	10-22-90	306	0.022±0.003
04-30-90	285	0.020±0.003	10-29-90	296	0.018±0.003
05-07-90	284	0.017±0.003	11-05-90	283	0.031±0.004
05-14-90	285	0.015±0.003	11-12-90	291	0.022±0.003
05-21-90	286	0.009±0.002	11-19-90	286	0.030±0.004
05-28-90	285	0.012±0.003	11-26-90	287	0.033±0.004
06-04-90	287	0.010±0.003	12-03-90	298	0.017±0.002
06-11-90	286	0.011±0.003	12-10-90	302	0.024±0.003
06-18-90	286	0.013±0.003	12-17-90	285	0.022±0.003
06-25-90	284	0.014±0.002	12-24-90	300	0.023±0.003
07-02-90	289	0.016±0.003	12-31-90	284	0.029±0.004
2nd Qtr mean±s.d.		0.015±0.004	4th Qtr mean±s.d.		0.023±0.006

^a Iodine-131 concentrations are <0.07 pCi/m³ unless noted otherwise in Appendix C.

^b Pump ran for 6 days.

Table 8. Airborne particulates and iodine collected at Location T-11, analyses for gross beta and iodine-131.^a

Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)	Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)
01-08-90	254 ^b	0.033±0.004	07-09-90	279	0.015±0.003
01-15-90	295	0.025±0.004	07-16-90	282	0.011±0.003
01-22-90	32 ^c	<0.031	07-23-90	290	0.019±0.003
01-29-90	274	0.018±0.003	07-30-90	335	0.016±0.003
02-05-90	282	0.017±0.003	08-06-90	337	0.016±0.003
02-12-90	285	0.020±0.003	08-13-90	337	0.013±0.003
02-19-90	285	0.015±0.003	08-20-90	336	0.013±0.003
02-26-90	287	0.017±0.003	08-27-90	346	0.010±0.002
03-05-90	286	0.019±0.003	09-04-90	435	0.019±0.002
03-12-90	279	0.015±0.003	09-10-90	254	0.023±0.004
03-19-90	291	0.013±0.003	09-17-90	340	0.020±0.004
03-26-90	289	0.025±0.003	09-24-90	356	0.013±0.003
04-02-90	282	0.009±0.003	10-01-90	360	0.029±0.003
1st Qtr mean±s.d.		0.019±0.006	3rd Qtr mean±s.d.		0.017±0.005
04-09-90	286	0.015±0.003	10-08-90	321	0.021±0.004
04-16-90	281	0.020±0.003	10-15-90	325	0.010±0.002
04-23-90	288	0.023±0.003	10-22-90	350	0.021±0.003
04-30-90	281	0.022±0.003	10-29-90	368	0.014±0.002
05-07-90	281	0.018±0.003	11-05-90	319	0.028±0.003
05-14-90	287	0.015±0.003	11-12-90	353	0.017±0.003
05-21-90	289	0.013±0.002	11-19-90	346	0.024±0.003
05-28-90	281	0.014±0.003	11-26-90	340	0.026±0.003
06-04-90	291	0.011±0.003	12-03-90	331	0.018±0.002
06-11-90	282	0.011±0.003	12-10-90	338	0.019±0.003
06-18-90	279	0.017±0.003	12-17-90	330	0.016±0.003
06-25-90	280	0.013±0.002	12-24-90	341	0.018±0.003
07-02-90	287	0.019±0.003	12-31-90	338	0.024±0.003
2nd Qtr mean±s.d.		0.016±0.004	4th Qtr mean±s.d.		0.020±0.005

^a Iodine-131 concentrations are <0.07 pCi/m³ unless noted otherwise in Appendix C.

^b Pump ran for 6 days.

^c Pump ran only for 19.1 hours.

Table 9. Airborne particulates and iodine collected at Location T-12, analyses for gross beta and iodine-131.^a

Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)	Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)
01-08-90	261 ^b	0.032±0.004	07-09-90	280	0.017±0.003
01-15-90	281	0.023±0.004	07-16-90	294	0.008±0.003
01-22-90	303	0.019±0.003	07-23-90	289	0.018±0.003
01-29-90	286	0.021±0.003	07-30-90	279	0.022±0.004
02-05-90	300	0.018±0.003	08-06-90	289	<0.004 ^c
02-12-90	280	0.018±0.003	08-13-90	250	0.017±0.004
02-19-90	312	0.020±0.003	08-20-90	285	0.019±0.003
02-26-90	285	0.016±0.003	08-27-90	287	0.012±0.003
03-05-90	284	0.022±0.003	09-04-90	325	0.024±0.003
03-12-90	280	0.018±0.003	09-10-90	245	0.034±0.005
03-19-90	292	0.013±0.003	09-17-90	285	0.028±0.004
03-26-90	303	0.029±0.003	09-24-90	286	0.025±0.004
04-02-90	283	0.010±0.003	10-01-90	286	0.030±0.004
1st Qtr mean±s.d.		0.020±0.006	3rd Qtr mean±s.d.		0.021±0.008
04-09-90	274	0.014±0.003	10-08-90	288	0.024±0.004
04-16-90	246	0.021±0.004	10-15-90	295	0.010±0.003
04-23-90	285	0.020±0.003	10-22-90	294	0.022±0.003
04-30-90	286	0.022±0.003	10-29-90	291	0.019±0.003
05-07-90	285	0.016±0.003	11-05-90	290	0.030±0.004
05-14-90	336	0.016±0.003	11-12-90	294	0.019±0.003
05-21-90	287	0.012±0.002	11-19-90	290	0.029±0.004
05-28-90	279	0.013±0.003	11-26-90	296	0.031±0.004
06-04-90	286	0.012±0.003	12-03-90	343	0.010±0.002
06-11-90	280	0.010±0.003	12-10-90	251	0.020±0.004
06-18-90	283	0.014±0.003	12-17-90	289	0.021±0.003
06-25-90	282	0.014±0.002	12-24-90	297	0.023±0.003
07-02-90	297	0.017±0.003	12-31-90	294	0.027±0.004
2nd Qtr mean±s.d.		0.016±0.004	4th Qtr mean±s.d.		0.022±0.007

^a Iodine-131 concentrations are <0.07 pCi/m³ unless noted otherwise in Appendix C.

^b Pump ran for 6 days.

^c Filter extremely light.

Table 10. Airborne particulates and iodine collected at Location T-27, analyses for gross beta and iodine-131.^a

Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)	Date Collected	Volume (m ³)	Gross Beta (pCi/m ³)
01-08-90	241 ^b	0.031±0.004	07-09-90	283	0.014±0.003
01-15-90	283	0.022±0.004	07-16-90	288	0.013±0.003
01-22-90	282	0.017±0.003	07-23-90	285	0.018±0.003
01-29-90	283	0.020±0.003	07-30-90	284	0.024±0.004
02-05-90	278	0.018±0.003	08-06-90	284	0.022±0.004
02-12-90	291	0.016±0.003	08-13-90	289	0.018±0.003
02-19-90	279	0.012±0.003	08-20-90	283	0.020±0.003
02-26-90	285	0.015±0.003	08-27-90	289	0.012±0.003
03-05-90	283	0.022±0.003	09-04-90	329	0.027±0.003
03-12-90	285	0.014±0.003	09-10-90	245	0.036±0.005
03-19-90	285	0.011±0.003	09-17-90	290	0.025±0.004
03-26-90	286	0.019±0.003	09-24-90	273	0.018±0.004
04-02-90	283	0.007±0.003	10-01-90	284	0.035±0.004
1st Qtr mean±s.d.		0.017±0.006	3rd Qtr mean±s.d.		0.022±0.008
04-09-90	280	0.012±0.003	10-08-90	279	0.024±0.004
04-16-90	285	0.018±0.003	10-15-90	289	0.013±0.003
04-23-90	289	0.017±0.003	10-22-90	282	0.021±0.003
04-30-90	281	0.017±0.003	10-29-90	295	0.022±0.003
05-07-90	290	0.009±0.003	11-05-90	245	0.042±0.005
05-14-90	274	0.014±0.003	11-12-90	289	0.021±0.003
05-21-90	283	0.012±0.002	11-19-90	291	0.034±0.004
05-28-90	282	0.016±0.004	11-26-90	287	0.034±0.004
06-04-90	287	0.011±0.003	12-03-90	280	0.020±0.002
06-11-90	284	0.010±0.003	12-10-90	306	0.024±0.003
06-18-90	286	0.015±0.003	12-17-90	293	0.021±0.003
06-25-90	279	0.014±0.002	12-24-90	296	0.022±0.003
07-02-90	293	0.018±0.003	12-31-90	289	0.029±0.004
2nd Qtr mean±s.d.		0.014±0.003	4th Qtr mean±s.d.		0.025±0.008

^a Iodine-131 concentrations are <0.07 pCi/m³ unless noted otherwise in Appendix C.

^b Pump ran for 6 days.

Table 11. Airborne particulates, gross beta analyses, monthly averages, minima, and maxima, 1990a.

Month	Location	Number of Samples ^a	Gross beta activity (pCi/m ³)		
			Average	Minimum	Maximum
January	T-1	4	0.026	0.020	0.035
	T-2	4	0.021	0.014	0.031
	T-3	4	0.025	0.020	0.035
	T-4	4	0.024	0.017	0.034
	T-7	4	0.023	0.019	0.032
	T-8	<u>4</u>	<u>0.024</u>	<u>0.018</u>	<u>0.031</u>
	All Indicators	24	0.024	0.014	0.035
	T-9	4	0.021	0.014	0.032
	T-11	4(1)	0.025	0.018	0.033
	T-12	4	0.024	0.019	0.032
	T-27	<u>4</u>	<u>0.022</u>	<u>0.017</u>	<u>0.031</u>
	All Controls	16(1)	0.023	0.014	0.033
February	T-1	4	0.019	0.017	0.022
	T-2	4	0.013	0.007	0.017
	T-3	4	0.017	0.016	0.019
	T-4	4	0.016	0.013	0.019
	T-7	4	0.017	0.016	0.019
	T-8	<u>4</u>	<u>0.016</u>	<u>0.015</u>	<u>0.018</u>
	All Indicators	24	0.016	0.007	0.022
	T-9	4	0.015	0.014	0.017
	T-11	4	0.017	0.015	0.020
	T-12	4	0.018	0.016	0.020
	T-27	<u>4</u>	<u>0.015</u>	<u>0.012</u>	<u>0.018</u>
	All Controls	16	0.016	0.012	0.020

^a Unless specified otherwise, data for samples collected on the first, second, or third day of a month are grouped with data of the previous month. Numbers in parentheses indicate the number of samples with unreliable and less than value results which are excluded from the average.

Table 11. Airborne particulates, gross beta analyses, monthly averages, minima, and maxima, 1990^a (continued)

Month	Location	Number of Samples ^a	Gross beta activity (pCi/m ³)		
			Average	Minimum	Maximum
March	T-1	5	0.021	0.014	0.027
	T-2	5	0.018	0.009	0.027
	T-3	5	0.018	0.010	0.027
	T-4	5	0.017	0.011	0.027
	T-7	5	0.018	0.013	0.026
	T-8	5	<u>0.019</u>	<u>0.012</u>	<u>0.027</u>
	All Indicators	30	0.018	0.009	0.027
	T-9	5	0.017	0.009	0.026
	T-11	5	0.016	0.009	0.025
	T-12	5	0.018	0.010	0.029
	T-27	5	<u>0.015</u>	<u>0.007</u>	<u>0.022</u>
	All Controls	20	0.016	0.007	0.029
April	T-1	4	0.020	0.015	0.023
	T-2	4	0.019	0.016	0.021
	T-3	4	0.020	0.014	0.024
	T-4	4	0.020	0.015	0.023
	T-7	4	0.018	0.014	0.021
	T-8	4	<u>0.021</u>	<u>0.016</u>	<u>0.024</u>
	All Indicators	24	0.020	0.014	0.024
	T-9	4	0.018	0.015	0.020
	T-11	4	0.020	0.015	0.023
	T-12	4	0.019	0.014	0.022
	T-27	4	<u>0.016</u>	<u>0.012</u>	<u>0.018</u>
	All Controls	16	0.018	0.012	0.023

^a Unless specified otherwise, data for samples collected on the first, second, or third day of a month are grouped with data of the previous month. Numbers in parentheses indicate the number of samples with unreliable and less than value results which are excluded from the average.

Table 11. Airborne particulates, gross beta analyses, monthly averages, minima, and maxima, 1990^a (continued)

Month	Location	Number of Samples ^a	Gross beta activity (pCi/m ³)		
			Average	Minimum	Maximum
May	T-1	4	0.014	0.011	0.017
	T-2	4	0.014	0.010	0.018
	T-3	4	0.014	0.010	0.017
	T-4	4	0.015	0.011	0.018
	T-7	4	0.016	0.013	0.020
	T-8	4	0.014	0.012	0.016
	All Indicators	24	0.014	0.010	0.020
	T-9	4	0.013	0.009	0.017
	T-11	4	0.015	0.013	0.018
	T-12	4	0.014	0.012	0.016
	T-27	4	0.013	0.009	0.016
	All Controls	16	0.014	0.009	0.018
June	T-1	5	0.013	0.009	0.016
	T-2	5	0.013	0.010	0.016
	T-3	5	0.012	0.006	0.016
	T-4	5	0.014	0.009	0.020
	T-7	5	0.014	0.010	0.019
	T-8	5	0.014	0.011	0.015
	All Indicators	30	0.013	0.006	0.020
	T-9	5	0.013	0.010	0.016
	T-11	5	0.014	0.011	0.019
	T-12	5	0.013	0.010	0.017
	T-27	5	0.014	0.010	0.018
	All Controls	20	0.014	0.010	0.019

^a Unless specified otherwise, data for samples collected on the first, second, or third day of a month are grouped with data of the previous month. Numbers in parentheses indicate the number of samples with unreliable and less than value results which are excluded from the average.

Table 11. Airborne particulates, gross beta analyses, monthly averages, minima, and maxima, 1990^a (continued)

Month	Location	Number of Samples ^a	Gross beta activity (pCi/m ³)		
			Average	Minimum	Maximum
July	T-1	4	0.015	0.011	0.020
	T-2	4	0.016	0.011	0.019
	T-3	4	0.017	0.013	0.021
	T-4	4	0.016	0.011	0.020
	T-7	4	0.016	0.012	0.021
	T-8	4	0.019	0.014	0.024
	All Indicators	24	0.016	0.011	0.024
	T-9	4	0.017	0.010	0.022
	T-11	4	0.015	0.011	0.019
	T-12	4	0.016	0.008	0.022
	T-27	4	0.017	0.013	0.024
	All Controls	16	0.016	0.008	0.024
August	T-1	4	0.016	0.011	0.020
	T-2	4	0.016	0.012	0.020
	T-3	3(1)	0.013	0.011	0.015
	T-4	4	0.015	0.009	0.018
	T-7	4	0.016	0.012	0.019
	T-8	4	0.017	0.010	0.020
	All Indicators	23(1)	0.016	0.009	0.020
	T-9	4	0.017	0.013	0.020
	T-11	4	0.013	0.010	0.016
	T-12	3(1)	0.016	0.012	0.019
	T-27	4	0.018	0.012	0.022
	All Controls	15(1)	0.016	0.010	0.022

^a Unless specified otherwise, data for samples collected on the first, second, or third day of a month are grouped with data of the previous month. Numbers in parentheses indicate the number of samples with unreliable and less than value results which are excluded from the average.

Table 11. Airborne particulates, gross beta analyses, monthly averages, minima, and maxima, 1990^a (continued)

Month	Location	Number of Samples ^a	Gross beta activity (pCi/m ³)		
			Average	Minimum	Maximum
September	T-1	4	0.024	0.018	0.030
	T-2	4	0.024	0.016	0.028
	T-3	4	0.024	0.020	0.029
	T-4	4	0.025	0.016	0.032
	T-7	4(1)	0.025	0.018	0.032
	T-8	4	0.027	0.017	0.035
	All Indicators	24(1)	0.025	0.016	0.035
	T-9	4	0.024	0.018	0.029
	T-11	4	0.021	0.013	0.029
	T-12	4	0.029	0.025	0.034
	T-27	4	0.028	0.018	0.036
	All Controls	16	0.026	0.013	0.036
	T-1	4	0.017	0.010	0.022
	T-2	4	0.018	0.010	0.025
October	T-3	4	0.016	0.010	0.022
	T-4	4	0.018	0.010	0.023
	T-7	4	0.016	0.009	0.020
	T-8	4	0.020	0.010	0.029
	All Indicators	24	0.018	0.009	0.029
	T-9	4	0.018	0.009	0.022
	T-11	4	0.016	0.010	0.021
	T-12	4	0.019	0.010	0.024
	T-27	4	0.020	0.013	0.024
	All Controls	16	0.018	0.009	0.024

^a Unless specified otherwise, data for samples collected on the first, second, or third day of a month are grouped with data of the previous month. Numbers in parentheses indicate the number of samples with unreliable and less than value results which are excluded from the average.

Table 11. Airborne particulates, gross beta analyses, monthly averages, minima, and maxima, 1990^a (continued)

Month	Location	Number of Samples ^a	Gross beta activity (pCi/m ³)		
			Average	Minimum	Maximum
November	T-1	5	0.025	0.020	0.032
	T-2	5	0.027	0.020	0.032
	T-3	5	0.027	0.017	0.033
	T-4	5	0.027	0.019	0.038
	T-7	5	0.028	0.017	0.037
	T-8	5	<u>0.025</u>	<u>0.010</u>	<u>0.034</u>
	All Indicators	30	0.026	0.010	0.038
	T-9	5	0.027	0.017	0.033
	T-11	5	0.023	0.017	0.028
	T-12	5	0.024	0.010	0.031
	T-27	5	<u>0.030</u>	<u>0.020</u>	<u>0.042</u>
	All Controls	20	0.026	0.010	0.042
December	T-1	4	0.022	0.018	0.028
	T-2	4	0.022	0.020	0.026
	T-3	4	0.024	0.022	0.026
	T-4	4	0.024	0.021	0.026
	T-7	4	0.022	0.020	0.024
	T-8	4	<u>0.022</u>	<u>0.019</u>	<u>0.025</u>
	All Indicators	24	0.023	0.018	0.028
	T-9	4	0.024	0.022	0.029
	T-11	4	0.019	0.016	0.024
	T-12	4	0.023	0.020	0.027
	T-27	4	<u>0.024</u>	<u>0.021</u>	<u>0.029</u>
	All Controls	16	0.022	0.016	0.029

^a Unless specified otherwise, data for samples collected on the first, second, or third day of a month are grouped with data of the previous month. Numbers in parentheses indicate the number of samples with unreliable and less than value results which are excluded from the average.

Table 12. Airborne particulates, quarterly composites of all indicator and all control locations, analyses for strontium and gamma-emitting isotopes, 1990.

Sample Description and Activity (pCi/m ³)						
January - March						
Lab Code	TAP-1825	TAP-1826	TAP-1827	TAP-1828	TAP-1829	
Location	T-1	T-2	T-3	T-4	T-7	
Volume (m ³)	3344	3588	3520	3720	3664	
Sr-89	<0.0006	<0.0005	<0.0005	<0.0008	<0.0005	
Sr-90	<0.0005	<0.0005	<0.0004	<0.0006	<0.0003	
Be-7	0.053±0.012	0.046±0.008	0.054±0.008	0.051±0.011	0.054±0.010	
K-40	<0.020	<0.016	<0.0087	<0.021	<0.0020	
Nb-95	<0.0012	<0.0008	<0.0010	<0.0014	<0.0009	
Zr-95	<0.0015	<0.0016	<0.0009	<0.0026	<0.0018	
Ru-103	<0.0009	<0.0006	<0.0004	<0.0007	<0.0008	
Ru-106	<0.0008	<0.0006	<0.0005	<0.0008	<0.0008	
Cs-134	<0.0011	<0.0006	<0.0008	<0.0011	<0.0009	
Cs-137	<0.0009	<0.0008	<0.0009	<0.0017	<0.0007	
Ce-141	<0.0015	<0.0007	<0.0031	<0.0052	<0.0026	
Ce-144	<0.0056	<0.0024				
Lab Code	TAP-1830	TAP-1831	TAP-1832	TAP-1833	TAP-1834	
Location	T-8	T-9 (C)	T-11 (C)	T-12 (C)	T-27 (C)	
Volume (m ³)	3744	3657	3420	3751	3644	
Sr-89	<0.0005	<0.0005	<0.0005	<0.0006	<0.0008	
Sr-90	<0.0004	<0.0005	<0.0004	<0.0004	<0.0006	
Be-7	0.056±0.009	0.054±0.012	0.056±0.010	0.054±0.012	0.046±0.009	
K-40	<0.010	<0.026	<0.022	<0.026	<0.018	
Nb-95	<0.0010	<0.0012	<0.0013	<0.0012	<0.0010	
Zr-95	<0.0013	<0.0024	<0.0019	<0.0024	<0.0019	
Ru-103	<0.0005	<0.0008	<0.0007	<0.0009	<0.0007	
Ru-106	<0.0038	<0.010	<0.0083	<0.0091	<0.0062	
Cs-134	<0.0004	<0.0007	<0.0007	<0.0009	<0.0008	
Cs-137	<0.0007	<0.0013	<0.0007	<0.0009	<0.0008	
Ce-141	<0.0009	<0.0014	<0.0007	<0.0014	<0.0008	
Ce-144	<0.0028	<0.0057	<0.0030	<0.0053	<0.0031	

Table 12. Airborne particulates, quarterly composites of all indicator and all control locations, analyses for strontium and gamma-emitting isotopes, 1990.

Sample Description and Activity (pCi/m ³)					
April - June					
Lab Code	TAP-2065	TAP-2066	TAP-2067	TAP-2068	TAP-2069
Location	T-1	T-2	T-3	T-4	T-7
Volume (m ³)	3839	3701	3749	3733	3708
Sr-89	<0.0008	<0.0006	<0.0006	<0.0006	<0.0007
Sr-90	<0.0006	<0.0004	<0.0004	<0.0005	<0.0005
Be-7	0.067±0.010	0.064±0.015	0.058±0.011	0.050±0.014	0.062±0.010
K-40	<0.020	<0.027	<0.019	<0.027	<0.018
Nb-95	<0.0012	<0.0016	<0.0016	<0.0013	<0.0012
Zr-95	<0.0019	<0.0025	<0.0018	<0.0024	<0.0015
Ru-103	<0.0010	<0.0010	<0.0009	<0.0012	<0.0007
Ru-106	<0.0086	<0.011	<0.0075	<0.010	<0.0066
Cs-134	<0.0008	<0.0011	<0.0007	<0.0008	<0.0008
Cs-137	<0.0010	<0.0013	<0.0009	<0.0011	<0.0010
Ce-141	<0.0016	<0.0017	<0.0008	<0.0020	<0.0010
Ce-144	<0.0054	<0.0056	<0.0029	<0.0056	<0.0030
Lab Code	TAP-2070	TAP-2071	TAP-2072	TAP-2073	TAP-2074
Location	T-8	T-9 (C)	T-11 (C)	T-12 (C)	T-27 (C)
Volume (m ³)	3591	3715	3693	3706	3693
Sr-89	<0.0005	<0.0005	<0.0005	<0.0010	<0.0006
Sr-90	<0.0004	<0.0004	<0.0004	<0.0007	<0.0004
Be-7	0.050±0.014	0.048±0.011	0.063±0.017	0.063±0.014	0.057±0.014
K-40	<0.022	<0.016	<0.025	<0.017	<0.024
Nb-95	<0.0015	<0.0014	<0.0017	<0.0015	<0.0017
Zr-95	<0.0020	<0.0020	<0.0026	<0.0020	<0.0028
Ru-103	<0.0009	<0.0007	<0.0011	<0.0010	<0.0012
Ru-106	<0.010	<0.0064	<0.012	<0.0080	<0.0072
Cs-134	<0.0011	<0.0006	<0.0008	<0.0008	<0.0012
Cs-137	<0.0012	<0.0009	<0.0012	<0.0012	<0.0011
Ce-141	<0.0017	<0.0008	<0.0019	<0.0023	<0.0019
Ce-144	<0.0064	<0.0024	<0.0061	<0.0074	<0.0069

Table 12. Airborne particulates, quarterly composites of all indicator and all control locations, analyses for strontium and gamma-emitting isotopes, 1990 (continued)

Sample Description and Activity (pCi/m ³)					
July - September					
Lab Code	IAP-2150	IAP-2151	IAP-2153	IAP-2155	IAP-2157
Location	T-1	T-2	T-3	T-4	T-7
Volume (m ³)	3824	3673	3731	3747	3519
Sr-89	<0.0003	<0.0004	<0.0003	<0.0003	<0.0003
Sr-90	<0.0002	<0.0003	<0.0002	<0.0002	<0.0003
Be-7	0.048±0.009	0.057±0.012	0.046±0.013	0.052±0.009	0.038±0.015
K-40	<0.018	<0.024	<0.025	<0.012	<0.025
Nb-95	<0.0014	<0.0017	<0.0018	<0.0012	<0.0015
Zr-95	<0.0016	<0.0021	<0.0026	<0.0016	<0.0027
Ru-103	<0.0008	<0.0011	<0.0010	<0.0009	<0.0012
Ru-106	<0.0056	<0.0092	<0.0094	<0.0081	<0.010
Cs-134	<0.0007	<0.0010	<0.0011	<0.0008	<0.0011
Cs-137	<0.0008	<0.0013	<0.0010	<0.0010	<0.0012
Ce-141	<0.0009	<0.0017	<0.0019	<0.0012	<0.0019
Ce-144	<0.0022	<0.0054	<0.0061	<0.0037	<0.0067
Lab Code	IAP-2158	IAP-2159	IAP-2160	IAP-2161	IAP-2162
Location	T-8	T-9 (C)	T-11 (C)	T-12 (C)	T-27 (C)
Volume (m ³)	3656	3762	4287	3680	3706
Sr-89	<0.0004	<0.0004	<0.0003	<0.0003	<0.0003
Sr-90	<0.0003	<0.0003	<0.0002	<0.0003	<0.0002
Be-7	0.044±0.009	0.060±0.013	0.039±0.008	0.050±0.015	0.060±0.010
K-40	<0.018	<0.023	<0.015	<0.024	<0.018
Nb-95	<0.0011	<0.0019	<0.0008	<0.0015	<0.0014
Zr-95	<0.0022	<0.0024	<0.0015	<0.0021	<0.0014
Ru-103	<0.0009	<0.0012	<0.0008	<0.0012	<0.0009
Ru-106	<0.0056	<0.0090	<0.0068	<0.0088	<0.0076
Cs-134	<0.0008	<0.0009	<0.0007	<0.0011	<0.0008
Cs-137	<0.0009	<0.0011	<0.0005	<0.0012	<0.0008
Ce-141	<0.0009	<0.0017	<0.0007	<0.0018	<0.0009
Ce-144	<0.0027	<0.0054	<0.0017	<0.0060	<0.0025

Table 12. Airborne particulates, quarterly composites of all indicator and all control locations, analyses for strontium and gamma-emitting isotopes, 1990 (continued)

Sample Description and Activity (pCi/m ³) October - December					
Lab Code Location Volume (m ³)	TAP-2394 T-1 4052	TAP-2395 T-2 3639	TAP-2397 T-3 3709	TAP-2399 T-4 3782	TAP-2401 T-7 3725
Sr-89	<0.0003	<0.0004	<0.0004	<0.0003	<0.0004
Sr-90	<0.0003	<0.0004	<0.0004	<0.0003	<0.0004
Be-7	0.045±0.010	0.045±0.009	0.039±0.008	0.052±0.009	0.044±0.022
K-40	<0.022	<0.015	<0.015	<0.011	<0.014
Nb-95	<0.0016	<0.0014	<0.0015	<0.0012	<0.0024
Zr-95	<0.0021	<0.0019	<0.0020	<0.0020	<0.0038
Ru-103	<0.0012	<0.0010	<0.0008	<0.0009	<0.0019
Ru-106	<0.0080	<0.0088	<0.0078	<0.0068	<0.016
Cs-134	<0.0009	<0.0010	<0.0009	<0.0008	<0.0016
Cs-137	<0.0010	<0.0010	<0.0011	<0.0010	<0.0017
Ce-141	<0.0019	<0.0011	<0.0010	<0.0011	<0.0030
Ce-144	<0.0051	<0.0036	<0.0033	<0.0039	<0.0095
Lab Code Location Volume (m ³)	TAP-2402 T-8 3630	TAP-2403 T-9 (C) 3806	TAP-2404 T-11 (C) 4400	TAP-2405 T-12 (C) 3812	TAP-2406 T-27 (C) 3721
Sr-89	<0.0004	<0.0004	<0.0004	<0.0003	<0.0004
Sr-90	<0.0004	<0.0004	<0.0010	<0.0004	<0.0005
Be-7	0.039±0.009	0.031±0.010	0.029±0.006	0.039±0.012	0.046±0.010
K-40	<0.010	<0.013	<0.0095	<0.024	<0.020
Nb-95	<0.0012	<0.0019	<0.0009	<0.0018	<0.0011
Zr-95	<0.0020	<0.0032	<0.0013	<0.0026	<0.0023
Ru-103	<0.0009	<0.0016	<0.0006	<0.0012	<0.0009
Ru-106	<0.0083	<0.015	<0.0059	<0.0085	<0.0072
Cs-134	<0.0010	<0.0014	<0.0006	<0.0009	<0.0008
Cs-137	<0.0010	<0.0016	<0.0006	<0.0013	<0.0007
Ce-141	<0.0010	<0.0024	<0.0009	<0.0019	<0.0009
Ce-144	<0.0032	<0.0082	<0.0028	<0.0053	<0.0021

Table 13. Precipitation/snow samples, quarterly composites. Analysis for gross beta, tritium and gamma-emitting isotopes, 1990.

Location	Date Collected	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)	
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Cs-137
<u>Indicator</u>							
T-1	1st Qtr.	TP-915	<0.3	0.7±0.2	0.7±0.2	<330	<10
	2nd Qtr.	NS ^a	--	--	--	--	--
	3rd Qtr.	NS ^b	--	--	--	--	--
	4th Qtr.	NS ^c	--	--	--	--	--
	Annual mean±s.d.		<0.3	0.7±0.2	0.7±0.2	<330	<10
T-4	1st Qtr.	TP-916	<0.6	0.8±0.3	0.8±0.3	<330	<10
	2nd Qtr.	NS ^a	--	--	--	--	--
	3rd Qtr.	NS ^b	--	--	--	--	--
	4th Qtr.	NS ^c	--	--	--	--	--
	Annual mean±s.d.		<0.6	0.8±0.3	0.8±0.3	<330	<10
T-8	1st Qtr.	TP-917	<0.3	0.9±0.2	0.9±0.2	<330	<10
	2nd Qtr.	NS ^a	--	--	--	--	--
	3rd Qtr.	NS ^b	--	--	--	--	--
	4th Qtr.	NS ^c	--	--	--	--	--
	Annual mean±s.d.		<0.3	0.9±0.2	0.9±0.2	<330	<10

a NS = No sample; sample not received as of 10-03-90.

b NS = No sample; sample not received as of 12-10 90.

c NS = No sample; sample not received as of 01-23-91.

Table 13. Precipitation/snow samples, quarterly composites. Analysis for gross beta, tritium and gamma-emitting isotopes (continued)

Location	Date Collected	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)	
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Cs-137
<u>Control</u>							
T-9	1st Qtr.	TP-918	<0.2	1.2±0.2	1.2±0.2	<330	<10
	2nd Qtr.	NS ^a	--	--	--	--	--
	3rd Qtr.	NS ^b	--	--	--	--	--
	4th Qtr.	NS ^c	--	--	--	--	--
	Annual mean±s.d.		<0.2	1.2±0.2	1.2±0.2	<330	<10
T-11	1st Qtr.	TP-919	<0.3	1.6±0.2	1.6±0.2	<330	<10
	2nd Qtr.	NS ^a	--	--	--	--	--
	3rd Qtr.	NS ^b	--	--	--	--	--
	4th Qtr.	NS ^c	--	--	--	--	--
	Annual mean±s.d.		<0.3	1.6±0.2	1.6±0.2	<330	<10
T-23	1st Qtr.	NS ^a	--	--	--	--	--
	2nd Qtr.	NS ^a	--	--	--	--	--
	3rd Qtr.	NS ^b	--	--	--	--	--
	4th Qtr.	NS ^c	--	--	--	--	--
	Annual mean±s.d.		--	--	--	--	--

^a NS = No sample; sample not received as of 10-03-90.

^b NS = No sample; sample not received as of 12-10-90.

^c NS = No sample; sample not received as of 01-23-91.

Table 14. Area monitors (TLD), quarterly, 1990.

Location	mR/91 days			
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
<u>Indicator</u>				
T-1	11.7±0.1	10.8±0.7	10.9±1.0	11.2±0.7
T-2	12.6±1.1	11.1±0.8	11.7±0.8	10.9±0.7
T-3	12.5±0.8	11.3±1.0	11.7±0.9	11.2±0.9
T-4	16.3±0.8	13.3±0.6	14.2±0.9	12.7±0.9
T-5	13.6±0.5	10.8±0.7	12.0±0.6	10.9±0.4
T-6	12.0±0.6	10.8±0.8	11.7±0.9	10.1±0.4
T-7	16.1±1.3	15.3±1.0	15.6±0.9	15.4±0.8
T-8	20.8±0.9	16.9±1.0	21.1±1.3	16.5±1.2
T-10	16.0±1.0	12.9±1.0	14.5±0.7	12.7±1.0
T-38	12.2±0.7	13.3±1.2	12.4±0.7	12.2±1.0
T-39	13.3±0.7	15.0±1.2	13.6±0.6	13.8±0.9
T-40	14.0±0.4	14.1±1.0	13.5±0.9	13.3±0.9
T-41	11.3±0.8	12.7±1.0	10.9±1.0	12.4±0.7
T-42	10.2±0.9	10.3±0.6	10.3±1.0	10.2±0.6
T-43	15.0±1.4	15.6±0.8	15.8±1.0	15.5±0.4
T-44	16.2±1.2	15.3±0.9	16.4±1.2	15.0±0.6
T-45	19.4±1.2	18.0±0.8	19.6±1.1	18.5±1.4
T-46	13.8±0.5	12.3±0.7	13.8±0.8	12.4±1.0
T-47	9.0±0.8	8.6±0.5	9.1±0.8	8.8±0.5
T-48	16.6±1.2	15.8±1.2	17.3±1.0	15.7±0.5
T-49	11.5±1.0	10.2±0.8	11.9±0.9	10.5±1.1
T-50	19.0±1.3	21.2±1.4	19.8±1.0	23.1±0.8
T-51	16.6±1.0	14.3±0.6	15.6±1.1	15.4±0.6
T-52	17.2±1.2	20.4±1.6	21.3±1.2	20.8±0.8
T-53	18.1±0.8	21.6±1.5	19.2±0.9	21.6±0.8
T-54	17.7±0.7	19.3±1.1	18.7±1.0	20.8±1.1
T-55	15.6±0.5	15.2±1.0	16.3±0.7	15.5±0.9
Mean ± s.d.	14.8±3.0	14.3±3.5	14.8±3.5	14.3±3.8
<u>Control</u>				
T-9	12.1±0.9	10.8±0.8	12.0±0.8	12.7±1.0
T-11	15.0±1.1	12.7±0.9	14.3±1.3	12.5±1.2
T-12	18.7±1.3	17.4±1.0	19.0±1.3	18.2±0.7
T-23	13.8±1.2	12.4±0.9	12.2±1.0	13.8±1.3
T-24	16.5±0.6	16.6±1.3	18.0±1.3	16.5±1.1
T-27	16.1±0.9	16.2±0.7	16.6±1.2	16.4±0.5
Mean ± s.d.	15.4±2.3	14.4±2.7	15.4±3.0	15.0±2.3

Table 14. Area monitors (TLD), quarterly, 1990 (continued)

Location	mR/91 days			
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
<u>Indicator</u>				
T-60	12.2±0.7	13.1±0.8	12.5±0.8	12.4±0.7
T-61	12.2±0.8	12.2±1.0	12.3±0.7	11.8±1.1
T-62	12.0±0.9	12.3±0.8	12.2±0.9	11.9±0.7
T-63	13.5±0.6	13.9±1.2	14.3±0.7	13.5±0.9
T-64	9.1±0.8	10.0±0.5	9.0±0.8	9.7±0.8
T-65	15.3±0.4	17.6±1.0	17.0±0.7	17.0±1.4
T-66	20.9±1.3	22.2±1.8	23.0±1	22.0±1.6
T-67	21.1±0.8	20.7±1.2	22.4±0	20.9±0.8
T-68	17.7±1.1	20.2±0.8	19.1±1.3	18.9±1.2
T-69	18.7±0.8	20.5±1.2	20.2±1.2	19.4±1.4
T-70	11.4±0.6	10.8±0.8	11.3±0.8	11.1±0.6
T-71	12.5±0.6	13.1±0.8	18.5±0.9	19.2±1.2
T-73	12.4±0.6	13.2±1.0	13.9±0.8	14.6±0.6
T-74	12.8±0.8	12.5±0.8	14.0±1.0	13.0±0.6
T-75	15.4±0.6	16.6±0.7	16.7±0.7	16.4±1.0
T-76	11.6±0.7	11.5±1.1	12.0±0.7	11.3±0.7
T-77	10.6±0.8	10.4±1.0	11.4±0.7	11.2±0.8
T-90	17.3±0.8	18.9±1.0	18.3±1.0	18.9±1.0
T-91	17.8±0.9	17.9±0.7	17.5±1.0	18.3±0.9
T-92	13.1±1.0	11.0±0.8	13.9±1.0	9.7±0.9
T-93	12.6±1.0	ND ^a	14.1±0.8	13.9±1.0
T-94	17.6±0.8	13.3±0.9	19.3±0.7	13.1±0.4
T-97	19.4±0.5	19.1±0.9	21.0±0.9	16.5±0.7
T-99	18.4±1.0	18.9±0.4	19.7±1.1	18.4±0.7
T-112	16.5±0.9	15.3±1.0	16.0±1.0	16.9±1.0
T-121	16.9±1.2	18.3±1.2	18.4±1.5	20.7±1.1
T-122	ND ^a	12.5±0.4	15.9±1.0	13.4±0.6
T-123	15.1±0.7	14.8±1.3	15.5±0.7	16.8±1.1
T-125	17.2±1.0	17.1±0.8	17.5±1.2	18.3±1.0
T-126	16.6±0.5	15.2±1.1	17.2±0.6	16.9±0.9
T-127	20.4±0.5	19.1±1.1	20.9±0.6	19.3±1.3
T-128	18.7±1.1	18.4±0.9	18.9±1.4	18.5±1.1
T-150	12.4±0.8	13.5±1.0	12.1±0.7	ND ^a
T-151	18.6±1.0	18.3±1.1	17.9±0.6	19.1±1.0
T-153	19.1±1.2	20.0±1.0	19.9±1.3	21.2±1.4
T-154	16.7±1.0	14.9±1.1	17.1±1.0	16.2±1.1
T-201	13.4±1.1	15.3±0.6	12.6±0.8	15.7±1.3
T-202	12.7±0.6	ND ^a	11.9±0.8	15.9±0.5
T-203	ND ^a	15.6±1.3	12.9±0.7	15.4±1.0
T-204	14.0±1.1	15.4±1.1	12.3±0.7	16.0±0.7
T-205	14.6±0.7	17.9±1.4	14.2±0.6	17.6±0.8
T-206	11.0±0.4	11.0±0.8	9.7±0.5	12.4±0.4
T-207	10.1±0.7	10.3±0.9	9.0±0.6	11.6±0.5
T-208	10.9±0.5	11.2±1.1	10.4±0.8	12.1±0.7
Mean±s.d.	15.0±3.3	15.3±3.4	15.5±3.7	15.8±3.4

^a ND = No data; TLD missing.

Table 14. Area monitors (TLD), quarterly, 1990 (continued)

Location	mR/91 days			
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
<u>Control</u>				
T-78	NDa	NDa	NDa	NDa
T-95	18.6±0.8	19.2±1.0	20.4±0.9	18.9±1.0
T-96	12.1±0.9	12.0±0.6	10.5±0.7	11.5±0.5
T-98	18.9±0.9	20.8±1.0	18.8±0.8	20.3±1.0
T-100	19.1±1.1	17.0±0.8	18.6±1.2	16.8±1.0
T-101	16.5±1.2	17.5±1.1	17.7±1.2	16.4±1.2
T-102	13.9±1.0	13.4±1.1	13.7±0.9	13.1±1.0
T-103	17.7±1.4	16.1±0.7	18.4±1.4	17.1±0.8
T-104	15.3±0.9	15.5±0.8	15.9±1.1	16.2±1.2
T-105	18.9±1.1	17.8±1.5	19.8±1.5	17.8±0.4
T-106	13.6±0.9	15.2±1.0	14.0±0.8	16.0±0.6
T-107	15.2±1.2	18.1±1.2	15.9±1.3	18.2±0.8
T-108	16.2±0.8	18.2±0.8	18.5±0.7	19.2±1.0
T-109	18.4±0.9	NDa	18.6±1.0	20.1±0.8
T-110	17.2±1.3	17.5±1.3	17.5±1.1	18.1±1.1
T-111	16.7±0.7	18.8±1.2	17.7±1.0	19.4±1.0
T-124	14.2±1.0	14.0±1.1	15.0±0.7	14.7±1.0
T-155	16.2±1.0	12.3±0.9	16.6±1.0	13.5±0.8
Mean±s.d.	16.4±2.1	16.5±2.5	16.9±2.5	16.9±2.5
<u>QC</u>				
T-79	NDa	NDa	NDa	NDa
T-80	12.2±0.9	13.7±1.1	12.5±1.1	12.7±0.9
T-81	12.5±0.6	12.8±0.4	13.2±0.7	12.8±0.7
T-82	8.8±0.8	10.1±1.0	8.4±0.4	10.3±0.9
T-83	10.0±0.5	10.0±0.4	10.5±0.6	10.0±0.7
T-84	13.9±0.7	14.4±0.9	14.5±0.8	14.4±0.9
T-85	13.3±0.5	13.8±0.8	13.6±0.6	13.6±1.1
T-86	10.0±0.7	12.0±1.2	10.3±0.8	11.3±0.9
T-88	20.3±0.5	18.6±0.6	22.1±0.6	18.9±0.5
T-89	15.2±0.7	14.9±1.1	15.4±0.8	14.6±0.8
T-113	13.8±0.7	14.6±0.7	14.6±1.1	15.7±0.5
T-114	13.0±0.7	NDa	15.0±0.6	16.7±0.4
T-115	18.9±1.0	20.6±1.2	20.5±1.3	22.0±1.2
T-116	18.7±0.8	19.7±1.4	20.0±1.0	21.8±1.0
T-117	18.4±1.2	17.7±0.9	17.2±1.3	18.5±0.8
T-118	14.1±0.7	15.0±0.9	14.4±0.7	16.9±1.2
T-119	19.7±0.8	19.8±0.8	20.4±0.5	21.3±0.9
T-120	17.0±1.4	16.8±0.8	17.5±1.1	18.6±1.2
T-200	14.8±0.8	17.7±0.9	14.2±0.9	18.9±0.8
Mean±s.d.	14.7±3.5	15.4±3.3	15.2±3.8	16.1±3.8

^a ND = No data. TLD missing.

Table 14. Area monitors (TLD), quarterly, 1990 (continued)

Location	mR/91 days			
	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
<u>Shield</u>				
T-87	7.3±0.4	5.4±0.7	ND ^a	5.1±0.5

^a ND = No data; TLD missing.

Table 15. Area monitors (TLD), annually, 1990.

Location	mR/365 days
<u>Indicator</u>	
T-1	45.7±1.9
T-2	46.3±1.6
T-3	43.9±1.1
T-4	54.4±1.5
T-5	45.6±1.4
T-6	40.4±2.3
T-7	59.9±1.6
T-8	80.6±1.9
T-10	56.0±1.1
T-38	47.8±3.6
T-39	49.7±1.5
T-40	54.6±1.9
T-41	48.2±1.6
T-42	30.8±1.5
T-43	67.3±1.5
T-44	66.8±1.9
T-45	79.3±2.6
T-46	49.1±2.2
T-47	32.0±1.3
T-48	58.0±2.1
T-49	45.5±1.0
T-50	81.3±1.9
T-51	59.4±2.5
T-52	82.3±1.5
T-53	74.2±2.3
T-54	69.8±2.2
T-55	54.7±1.0
Mean ± s.d.	56.4±14.6
<u>Control</u>	
T-9	43.7±1.6
T-11	51.4±2.5
T-12	71.6±1.5
T-23	56.6±1.8
T-24	70.3±1.9
T-27	67.8±2.1
Mean ± s.d.	60.2±11.4

Table 15. Area monitors (TLD), annually, 1990 (continued)

Location	mR/365 days
<u>Indicator</u>	
T-60	48.5±0.9
T-61	46.0±1.6
T-62	46.5±1.8
T-63	56.2±2.0
T-64	35.8±2.2
T-65	62.8±1.9
T-66	88.2±0.9
T-67	80.6±2.5
T-68	78.6±1.7
T-69	80.7±2.2
T-70	42.1±1.4
T-71	65.1±1.8
T-73	57.2±1.1
T-74	54.2±1.9
T-75	67.4±1.6
T-76	47.7±1.0
T-77	40.7±1.2
T-90	83.5±1.6
T-91	73.8±2.3
T-92	51.6±1.8
T-93	39.5±1.2
T-94	78.5±0.9
T-97	82.8±2.1
T-99	78.3±1.6
T-112	65.5±2.4
T-121	ND ^a
T-122	ND ^a
T-123	64.8±1.6
T-125	62.8±1.4
T-126	59.3±1.6
T-127	69.5±1.4
T-128	68.1±2.3
T-150	49.7±2.3
T-151	75.3±1.6
T-153	88.5±2.0
T-154	66.6±1.6
T-201	64.7±2.2
T-202	ND ^a
T-203	ND ^a
T-204	66.5±1.6
T-205	71.6±1.6
T-206	49.3±1.5
T-207	49.9±2.7
T-208	52.9±1.5
Mean ± s.d.	62.8±14.4

^a ND = No data; TLD missing.

Table 15. Area monitors (TLD), annually, 1990 (continued)

Location	mR/365 days
<u>Control</u>	
T-78	ND ^a
T-95	83.7±1.0
T-96	51.3±1.0
T-98	84.8±2.5
T-100	75.2±1.6
T-101	76.0±1.4
T-102	64.4±2.4
T-103	81.1±2.1
T-104	69.4±1.6
T-105	81.1±1.8
T-106	50.8±1.8
T-107	75.1±1.7
T-108	79.0±1.8
T-109	ND ^a
T-110	76.0±2.0
T-111	74.1±2.0
T-124	54.2±1.6
T-155	65.4±0.8
Mean ± s.d.	71.4±11.2
<u>QC</u>	
T-79	ND ^a
T-80	50.0±1.8
T-81	47.1±0.9
T-82	35.8±0.9
T-83	36.6±1.0
T-84	56.1±2.1
T-85	54.1±1.8
T-86	44.0±1.7
T-88	87.2±2.0
T-89	54.2±1.4
T-113	42.4±1.8
T-114	ND ^a
T-115	67.5±1.2
T-116	73.6±1.5
T-117	55.8±1.6
T-118	51.1±2.1
T-119	82.2±2.2
T-120	70.0±1.6
T-200	79.6±1.6
Mean ± s.d.	58.1±15.9
<u>Shield</u>	
T-87	27.4±1.9

^a ND = No data; TLD missing.

Table 16. Milk samples, analyses for Sr-89, Sr-90, I-131, and gamma-emitting isotopes. Collection: Semimonthly May through October, monthly otherwise.

Location and Date Collected	Lab Code	Activity (pCi/L)					
		Sr-89	Sr-90	I-131	Ba-La-140	Cs-137	K-40
T-8 Farm, 2.7 mi WSW of station)							
01-08-90	TMI-4392	<2.1	1.4±0.8	<0.3	<10	<10	1200±130
02-12-90	4484	<0.8	0.7±0.5	<0.3	<10	<10	1210±140
03-13-90	4552	<0.4	1.2±0.3	<0.3	<10	<10	1090±120
04-09-90	4607	<0.6	0.9±0.4	<0.3	<10	<10	1230±110
05-14-90	4732	<0.8	<0.6	<0.4	<10	<10	1060±100
05-28-90	4785	<0.5	0.7±0.3	<0.3	<10	<10	1180±110
06-11-90	4855	<0.7	0.8±0.4	<0.4	<10	<10	1250±110
06-25-90	4944	<0.8	0.9±0.5	<0.3	<10	<10	1200±130
07-09-90	5016	<1.0	1.0±0.6	<0.5	<10	<10	1260±100
07-25-90	5094	<0.8	1.0±0.5	<0.4	<10	<10	1390±160
08-13-90	5191	<2.1	<1.5	<0.4	<10	<10	1250±200
08-27-90	5269,70	<0.5	1.0±0.3	<0.4	<10	<10	1290±100
09-10-90	5344,5	<0.5	1.4±0.3	<0.3	<10	<10	1320±100
09-24-90	5429	<0.6	1.1±0.3	<0.3	<10	<10	1200±110
10-09-90	5503	<0.5	1.0±0.3	<0.4	<10	<10	1260±140
10-23-90	5576	<0.5	1.0±0.3	<0.3	<10	<10	1130±130
11-13-90	5673	<0.5	1.3±0.4	<0.3	<10	<10	1360±120
12-11-90	5738	<0.5	0.9±0.3	<0.3	<10	<10	1240±50

Table 16. Milk samples, analyses for Sr-89, Sr-90, I-131 and gamma-emitting isotopes (continued)

Location and Date Collected		Lab Code	Activity (pCi/L)					
			Sr-89	Sr-90	I-131	Ba-La-140	Cs-137	K-40
T-199 (C) Farm, 8.5 mi SW of Station)								
01-08-90	ND ^a	--	--	--	--	--	--	--
02-12-90	ND	--	--	--	--	--	--	--
03-13-90	ND	--	--	--	--	--	--	--
04-09-90	ND	--	--	--	--	--	--	--
05-14-90	TMI-4735	<0.9	2.0±0.7	<0.3	<10	<10	1030±120	
05-19-90	4788	<0.4	1.3±0.3	<0.4	<10	<10	1540±160	
06-11-90	4858	<0.7	1.6±0.6	<0.4	<10	<10	1030±110	
06-26-90	4947	<1.6	3.1±1.1	<0.5	<10	<10	1290±160	
07-11-90	5033	<0.9	1.8±0.6	<0.4	<10	<10	1240±100	
07-24-90	ND	--	--	--	--	--	--	--
08-13-90	ND	--	--	--	--	--	--	--
08-27-90	5273	<0.5	1.5±0.4	<0.4	<10	<10	1220±130	
09-11-90	5348	<0.8	1.3±0.4	<0.4	<10	<10	1270±150	
09-25-90	5432,3	<0.7	1.8±0.3	<0.4	<10	<10	1280±100	
10-09-90	5506	<0.5	1.5±0.4	<0.2	<10	<10	1210±140	
10-23-90	5580	<0.6	2.4±0.5	<0.5	<10	<10	1270±130	
11-13-90	5676	<0.4	1.3±0.4	<0.4	<10	<10	1150±140	
12-11-90	5741	<0.5	2.1±0.5	<0.3	<10	<10	1190±130	

^a ND = No data; sample was not available.

Table 16. Milk samples, analyses for Sr-89, Sr-90, I-131, and gamma-emitting isotopes (continued)

Location and Date Collected	Lab Code	Activity (pCi/L)					
		Sr-89	Sr-90	I-131	Ba-La-140	Cs-137	K-40
T-24 (C)							
Sandusky, 21.0 mi SE of Station)							
01-09-90	TMI-4393	<0.7	2.2±0.6	<0.3	<10	<10	1210±120
02-12-90	4485	<0.8	0.7±0.4	<0.4	<10	<10	1400±140
03-13-90	4553	<0.7	1.0±0.4	<0.2	<10	<10	1280±130
04-09-90	4608	<0.7	0.9±0.5	<0.3	<10	<10	1070±110
05-15-90	4733	<0.8	1.4±0.5	<0.3	<10	<10	1350±100
05-29-90	4786	<0.5	1.5±0.4	<0.2	<10	<10	1090±110
06-12-90	4856	<0.8	1.2±0.6	<0.3	<10	<10	1010±120
06-26-90	4945	<0.8	0.9±0.4	<0.3	<10	<10	1290±130
07-10-90	5017	<0.7	1.7±0.5	<0.4	<10	<10	1280±80
07-25-90	5095	<0.7	0.9±0.4	<0.3	<10	<10	1300±120
08-14-90	5192	<0.8	1.5±0.5	<0.3	<10	<10	1110±150
08-28-90	5271	<0.6	1.3±0.4	<0.3	<10	<10	1370±180
09-11-90	5346	<0.7	1.2±0.5	<0.3	<10	<10	1240±170
09-25-90	5430	<0.9	1.1±0.4	<0.5	<10	<10	1180±90
10-09-90	5504	<0.5	0.8±0.3	<0.3	<10	<10	1290±130
10-23-90	5577	<0.5	1.2±0.4	<0.4	<10	<10	1340±150
11-13-90	5674	<0.5	1.0±0.4	<0.3	<10	<10	1180±100
12-11-90	5739	<0.5	1.0±0.4	<0.3	<10	<10	1210±160

Table 16. Milk samples, analyses for Sr-89, Sr-90, I-131, and gamma-emitting isotopes (continued)

Location and Date Collected	Lab Code	Activity (pCi/L)					
		Sr-89	Sr-90	I-131	Ba-La-140	Cs-137	K-40
T-57 (C)							
Farm, 22 miles SSE of Station)							
01-09-90	TMI-4394	<0.8	0.6±0.4	<0.2	<10	<10	1370±150
02-12-90	4486	<0.9	0.7±0.5	<0.3	<10	<10	1250±100
03-13-90	4554,5	<0.4	0.9±0.3	<0.3	<10	<10	1150±60
04-09-90	4609	<0.7	0.7±0.4	<0.3	<10	<10	1100±140
05-15-90	4734	<1.0	1.1±0.6	<0.3	<10	<10	1160±90
05-29-90	4787	<0.7	0.6±0.4	<0.2	<10	<10	1150±130
06-12-90	4857	<1.0	0.6±0.4	<0.3	<10	<10	1200±130
06-26-90	4946	<0.9	1.0±0.5	<0.3	<10	<10	1190±120
07-10-90	5018	<1.1	1.3±0.5	<0.4	<10	<10	1360±140
07-24-90	5096	<0.7	0.8±0.5	<0.4	<10	<10	1220±130
08-14-90	5193	<0.7	1.4±0.4	<0.3	<10	<10	1450±150
08-28-90	5272	<0.5	1.0±0.3	<0.4	<10	<10	1250±140
09-11-90	5347	<0.5	1.3±0.4	<0.4	<10	<10	1140±90
09-25-90	5431	<0.6	0.9±0.3	<0.4	<10	<10	1170±100
10-09-90	5505	<0.6	1.1±0.4	<0.3	<10	<10	1280±140
10-23-90	5578,9	<0.6	0.7±0.2	<0.3	<10	<10	1090±90
11-13-90	5675	<0.5	0.8±0.3	<0.4	<10	<10	1080±80
12-11-90	5740	<0.5	1.1±0.4	<0.3	<10	<10	1290±110

Table 17. Milk samples, analyses for calcium, stable potassium, and ratios of pCi Sr-90/g Ca and pCi Cs-137/g K. Collection: Semimonthly May through October, monthly otherwise.

Location and Date Collected	Lab Code	Calcium (g/L)	Potassium (g/L)	Sr-90 (pCi) per gram of Calcium	Cs-137 (pCi) per gram of Potassium
<u>T-8</u>					
Farm, 2.7 mi WSW of Station)					
01-08-90	TM1-4392	0.84	1.39±0.15	1.67	<7.19
02-12-90	4484	0.77	1.40±0.16	0.91	<7.14
03-13-90	4552	0.93	1.26±0.14	1.29	<7.93
04-09-90	4607	0.82	1.42±0.13	1.10	<7.04
05-14-90	4732	0.64	1.22±0.12	<0.94	<8.20
05-28-90	4785	0.76	1.36±0.13	0.92	<7.35
06-11-90	4855	0.83	1.44±0.13	0.96	<6.94
06-25-90	4944	1.06	1.39±0.15	0.85	<7.19
07-09-90	5016	0.82	1.47±0.12	1.22	<6.80
07-25-90	5094	0.83	1.61±0.18	1.20	<6.21
08-13-90	5191	0.80	1.44±0.23	<1.88	<6.94
08-27-90	5269,70	0.83	1.49±0.12	1.20	<6.71
09-10-90	5344,5	0.80	1.53±0.12	1.75	<6.54
09-24-90	5429	0.82	1.39±0.13	1.34	<7.19
10-09-90	5503	0.84	1.46±0.16	1.19	<6.85
10-23-90	5576	0.88	1.31±0.15	1.14	<7.63
11-13-90	5673	0.78	1.57±0.14	1.67	<6.37
12-11-90	5738	0.90	1.43±0.06	1.00	<6.99

Table 17. Milk samples, analyses for calcium, stable potassium, and ratios of pCi Sr-90/g Ca and pCi Cs-137/g K (continued)

Location and Date Collected	Lab Code	Calcium (g/L)	Potassium (g/L)	Sr-90 (pCi) per gram of Calcium	Cs-137 (pCi) per gram of Potassium
T-199 (C) Farm, 8.5 mi SW of Station)					
01-08-90	ND ^a	--	--	--	--
02-12-90	ND	--	--	--	--
03-13-90	ND	--	--	--	--
04-09-90	ND	--	--	--	--
05-14-90	TM1-4735	0.82	1.19±0.14	2.44	<8.40
05-29-90	4788	1.04	1.78±0.18	1.25	<5.62
06-11-90	4858	1.35	1.19±0.13	1.18	<8.40
06-26-90	4947	0.60	1.49±0.18	3.60	<6.71
07-11-90	5033	0.86	1.43±0.12	2.09	<6.99
07-24-90	ND	--	--	--	--
08-13-90	ND	--	--	--	--
08-27-90	TM1-5273	1.11	1.41±0.15	1.35	<7.09
09-11-90	5348	1.02	1.47±0.17	1.27	<6.80
09-25-90	5432,3	1.08	1.48±0.12	1.67	<6.76
10-09-90	5506	1.04	1.40±0.16	1.44	<7.14
10-23-90	5580	1.17	1.47±0.15	2.05	<6.80
11-13-90	5676	1.07	1.33±0.16	1.22	<7.52
12-11-90	5741	0.80	1.38±0.15	2.62	<7.25

^a ND = No data; sample not available.

Table 17. Milk samples, analyses for calcium, stable potassium, and ratios of pCi Sr-90/g Ca and pCi Cs-137/g K (continued)

Location and Date Collected	Lab Code	Calcium (g/L)	Potassium (g/L)	Sr-90 (pCi) per gram of Calcium	Cs-137 (pCi) per gram of Potassium
<u>T-24 (C)</u>					
Sandusky, 21.0 mi SE of Station)					
01-09-90	TMI-4393	0.80	1.40±0.14	2.75	<7.14
02-12-90	4485	0.87	1.62±0.16	1.24	<6.17
03-13-90	4553	0.76	1.48±0.15	1.32	<6.76
04-09-90	4608	0.72	1.24±0.13	1.25	<8.06
05-15-90	4733	0.77	1.56±0.12	1.82	<6.41
05-29-90	4786	0.82	1.26±0.13	1.83	<7.94
06-12-90	4856	0.84	1.17±0.14	1.43	<8.55
06-26-90	4945	0.83	1.49±0.15	1.08	<6.71
07-10-90	5017	0.83	1.48±0.09	2.05	<6.76
07-25-90	5095	0.79	1.50±0.14	1.14	<6.67
08-14-90	5192	0.87	1.28±0.17	1.72	<7.81
08-28-90	5271	0.88	1.58±0.21	1.48	<6.33
09-11-90	5346	0.90	1.43±0.20	1.33	<6.99
09-25-90	5430	0.82	1.36±0.10	1.34	<7.35
10-09-90	5504	0.78	1.49±0.17	1.03	<6.71
10-23-90	5577	0.93	1.55±0.17	1.29	<6.45
11-13-90	5674	0.80	1.36±0.12	1.25	<7.35
12-11-90	5739	0.86	1.40±0.18	1.16	<7.14

Table 17. Milk samples, analyses for calcium, stable potassium, and ratios of pCi Sr-90/g Ca and pCi Cs-137/g K (continued)

Location and Date Collected	Lab Code	Calcium (g/L)	Potassium (g/L)	Sr-90 (pCi) per gram of Calcium	Cs-137 (pCi) per gram of Potassium
T-57 (C)					
Farm, 22 miles SSE of Station)					
01-09-90	TMI-4394	0.86	1.59±0.17	0.70	<6.29
02-12-90	4486	0.92	1.44±0.12	0.76	<6.94
03-13-90	4554,5	0.72	1.33±0.07	1.25	<7.52
04-09-90	4609	0.78	1.27±0.16	0.90	<7.87
05-15-90	4734	0.61	1.34±0.10	1.80	<7.46
05-29-90	4787	0.63	1.33±0.15	0.95	<7.52
06-12-90	4857	0.82	1.39±0.15	0.73	<7.19
06-26-90	4946	0.80	1.38±0.14	1.25	<7.25
07-10-90	5018	0.78	1.57±0.16	1.67	<6.37
07-24-90	5096	0.85	1.41±0.15	0.94	<7.09
08-14-90	5193	0.87	1.68±0.17	1.61	<5.95
08-28-90	5272	0.85	1.44±0.16	1.18	<6.94
09-11-90	5347	0.87	1.32±0.10	1.49	<7.58
09-25-90	5431	0.90	1.35±0.12	1.00	<7.41
10-09-90	5505	0.65	1.48±0.16	1.69	<6.76
10-23-90	5578,9	0.94	1.26±0.10	0.74	<7.94
11-13-90	5675	0.84	1.25±0.09	0.95	<8.00
12-11-90	5740	0.92	1.49±0.13	1.20	<6.71

Table 18. Ground water samples, analyses for gross beta, Sr-89, Sr-90 and gamma-emitting isotopes.
Collection: Quarterly, 1990.

Location	Collection Date	Lab Code	Gross Beta (pCi/L)			H-3	Sr-89	Sr-90	Cs-137
			Suspended Solids	Dissolved Solids	Total Residue				
I-7	1st Quarter	TWW-4935	<0.4	3.1±0.9	3.1±0.9	<330	<0.6	0.6±0.4	<10
	2nd Quarter	5949	<0.3	3.9±0.3	3.9±0.3	<330	<0.8	<0.6	<10
	3rd Quarter	7142	<0.2	1.2±0.3	1.2±0.3	<330	<1.0	0.5±0.3	<10
	4th Quarter	8115	<0.3	2.0±0.5	2.0±0.5	<330	<1.1	<0.6	<10
Annual mean ± s.d.			<0.4	2.6±1.2	2.6±1.2	<330	<1.1	0.6±0.1	<10
I-54	1st Quarter	TWW-4937	<0.4	2.0±1.7	2.0±1.7	<330	<0.7	<0.6	<10
	2nd Quarter	5952	<0.3	3.8±2.2	3.8±2.2	<330	<0.7	<0.5	<10
	3rd Quarter	7144	<0.2	4.0±2.8	4.0±2.8	<330	<0.8	<0.3	<10
	4th Quarter	8117	<0.2	4.7±2.3	4.7±2.3	<330	<0.7	<0.4	<10
Annual mean ± s.d.			<0.4	3.6±1.2	3.6±1.2	<330	<0.8	<0.6	<10

Table 18. Ground water samples, analyses for gross beta, tritium, Sr-89, Sr-90 and gamma-emitting isotopes, 1990 (continued)

Location	Collection Date	Lab Code	Gross Beta (pCi/L)			H-3	Sr-89	Sr-90	Cs-137
			Suspended Solids	Dissolved Solids	Total Residue				
I-23 (C)	1st Quarter	TWW-5819	<0.2	3.0±1.4	3.0±1.4	<330	<0.7	<0.4	<10
	2nd Quarter	7057	<0.2	2.8±1.0	2.8±1.0	<330	<1.0	<0.5	<10
	3rd Quarter	8260	<0.4	1.0±0.4	1.0±0.4	<330	<0.8	<0.3	<10
	4th Quarter	9307	<0.4	2.1±0.3	2.1±0.3	<330	<0.7	<0.2	<10
Annual mean ± s.d.			<0.4	2.2±0.9	2.2±0.9	<330	<1.0	<0.5	<10
I-27 (C)	1st Quarter	TWW-4936	<0.4	<2.0	<2.0	<330	<0.8	<1.0	<10
	2nd Quarter	5950,1	<0.3	2.0±0.7	2.0±0.7	<330	<1.3	<0.9	<10
	3rd Quarter	7272	<0.2	2.3±1.1	2.3±1.1	<330	<1.3	<0.9	<10
	4th Quarter	8116	<0.2	1.8±1.2	1.8±1.2	<330	<1.6	<0.8	<10
Annual mean ± s.d.			<0.4	2.0±0.2	2.0±0.2	<330	<1.6	<1.0	<10
I-141 (QC)	1st Quarter	TWW-4938	<0.4	2.8±1.2	2.8±1.2	<330	<1.1	<1.0	<10
	2nd Quarter	5953	<0.3	2.4±1.5	2.4±1.5	<330	<1.3	<1.0	<10
	3rd Quarter	7273	<0.2	2.4±1.6 ^a	2.4±1.6	<330	<1.3	<0.5	<10
	4th Quarter	8118	<0.2	1.6±1.3	1.6±1.3	<330	<0.9	<0.4	<10
Annual mean ± s.d.			<0.4	2.3±0.5	2.3±0.5	<330	<1.3	<1.0	<10

^a Result of reanalysis.

Table 19. Domestic meat samples, analysis for gamma-emitting isotopes.

Location	Date Collected	Lab Code	Sample Type	Activity (pCi/g wet)	
				K-40	Cs-137
<u>T-197</u>	07-20-90	TME-141	Chicken	2.30±0.41	<0.025

Table 20. Wildlife meat samples, analysis for gamma-emitting isotopes.

Location	Collection Date	Lab Code	Sample Type	Activity (pCi/g wet)	
				K-40	Cs-137
<u>T-31</u>	05-28-90	TWL-58	Woodchuck	2.57±0.40	<0.017
	05-27-90	59	Goose	2.52±0.34	<0.013
	11-18-90	61	Muskrat	2.48±0.35	<0.018

Table 21. Green leafy vegetables, analyses for strontium-89, strontium-90, I-131 and other gamma-emitting isotopes. Collection: Monthly in season.

Sample Description and Activity (pCi/g wet)					
Location Lab Code Collection Date Type	I-8 IVE-890 07-19-90 Squash Leaves Rhubarb	I-8 IVE-891 07-19-90 Horseradish Leaves	I-37 IVE-892 07-20-90 Cabbage	I-25 IVE-893 07-17-90 Cabbage Leaves Lettuce, Kohlrabi	
Sr-89	<0.014	<0.012	<0.002	<0.028	
Sr-90	<0.006	<0.006	<0.001	<0.013	
I-131	<0.020	<0.018	<0.015	<0.019	
K-40	4.78±0.42	4.77±0.33	1.64±0.23	3.79±0.32	
Nb-95	<0.015	<0.013	<0.010	<0.012	
Zr-95	<0.026	<0.022	<0.018	<0.022	
Cs-137	<0.015	<0.011	<0.011	<0.012	
Ce-141	<0.021	<0.018	<0.016	<0.018	
Ce-144	<0.086	<0.078	<0.067	<0.069	
Location Lab Code Collection Date Type	I-8 IVE-950 08-20-90 Broccoli Leaves	I-8 IVE-951 08-20-90 Horseradish Leaves	I-25 IVE-952 08-20-90 Swiss Chard	I-25 IVE-953 08-20-90 Lettuce	I-37 IVE-954 08-20-90 Cabbage
Sr-89	<0.004	<0.011	<0.028	<0.022	<0.002
Sr-90	<0.002	0.007±0.004	<0.015	<0.010	<0.001
I-131	<0.019	<0.043	<0.020	<0.020	<0.015
K-40	3.35±0.27	4.98±0.43	4.29±0.28	4.30±0.28	1.41±0.17
Nb-95	<0.012	<0.019	<0.013	<0.012	<0.009
Zr-95	<0.021	<0.040	<0.022	<0.020	<0.017
Cs-137	<0.011	<0.019	<0.012	<0.011	<0.009
Ce-141	<0.018	<0.040	<0.024	<0.023	<0.015
Ce-144	<0.072	<0.16	<0.098	<0.090	<0.060

Table 21. Green leafy vegetables, analyses for strontium-89, strontium-90, I-131 and other gamma-emitting isotopes (continued)

Location Lab Code Collection Date Type	Sample Description and Activity (pCi/g wet)				
	I-8 TVE-1009, 10 09-18-90 Rhubarb	I-8 TVE-1011 09-18-90 Horseradish Leaves	I-25 TVE-1014 09-18-90 Swiss Chard	I-37 TVE-1016 09-18-90 Cabbage	
Sr-89	<0.004	<0.004	<0.008	<0.001	
Sr-90	<0.002	<0.002	<0.004	<0.001	
I-131	<0.012	<0.024	<0.015	<0.017	
K-40	4.00±0.21	4.71±0.60	4.50±0.45	1.55±0.29	
Nb-95	<0.011	<0.024	<0.017	<0.017	
Zr-95	<0.020	<0.044	<0.030	<0.036	
Cs-137	<0.011	<0.028	<0.016	<0.019	
Ce-141	<0.016	<0.033	<0.021	<0.017	
Ce-144	<0.071	<0.16	<0.096	<0.079	

Table 23. Animal - Wildlife feed samples, analysis for gamma-emitting isotopes. Collection: Annually.

Sample Description and Activity (pCi/g wet)				
Location	T-8	T-57	T-147	T-197
Collection Date	09-26-90	09-25-90		07-20-90
Lab Code	TCF-424	TCF-422,3		TCF-411
Type	Mixed Feed	Mixed Feed		Chicken Feed
Be-7	<0.16	0.37±0.07		<0.041
K-40	10.60±0.61	1.48±0.16		5.65±0.13
Nb-95	<0.022	<0.011		<0.007
Zr-95	<0.040	<0.020		<0.009
Ru-103	<0.018	<0.011		<0.005
Ru-106	<0.16	<0.10		<0.029
Cs-137	<0.018	<0.011		<0.003
Ce-141	<0.028	<0.020		<0.010
Ce-144	<0.11	<0.082		<0.026
Location	T-31	T-198		
Collection Date	09-21-90	09-21-90		
Lab Code	TCF-412	TCF-413		
Type	Wildlife Feed	Wildlife Feed		
Be-7	<0.14	0.62±0.29		
K-40	1.44±0.21	3.85±0.61		
Nb-95	<0.018	<0.031		
Ru-103	<0.018	<0.028		
Ru-106	<0.19	<0.20		
Cs-137	<0.019	<0.022		
Ce-141	<0.034	<0.037		
Ce-144	<0.14	<0.16		

Table 24. Soil samples, analysis for gamma-emitting isotopes.

Sample Description and Activity (pCi/g dry)				
Location	T-1	T-2	T-3	T-4
Date	06-19-90	06-19-90	06-19-90	06-19-90
Lab Code	TSO-443	TSO-444	TSO-445	TSO-446
Be-7	<0.30	<0.73	<0.70	<0.51
K-40	3.87±0.60	8.86±1.44	11.92±1.47	20.87±1.21
Nb-95	<0.038	<0.12	<0.12	<0.084
Zr-95	<0.055	<0.19	<0.16	<0.12
Ru-103	<0.032	<0.081	<0.10	<0.063
Ru-106	<0.27	<0.71	<0.58	<0.43
Cs-137	0.21±0.05	<0.14	0.12±0.05	0.23±0.05
Ce-141	<0.047	<0.15	<0.11	<0.090
Ce-144	<0.17	<0.60	<0.23	<0.22
Location	T-7	T-8	T-9(C)	T-11(C)
Date	06-18-90	06-18-90	06-18-90	06-18-90
Lab Code	TSO-447	TSO-448	TSO-449	TSO-450,1
Be-7	<0.36	<0.63	<1.07	<0.54
K-40	14.00±0.73	19.55±1.41	17.59±1.81	12.12±0.71
Nb-95	<0.072	<0.10	<0.20	<0.074
Zr-95	<0.071	<0.14	<0.19	<0.10
Ru-103	<0.046	<0.085	<0.13	<0.058
Ru-106	<0.26	<0.56	<0.71	<0.37
Cs-137	0.16±0.03	0.74±0.09	0.70±0.11	0.25±0.04
Ce-141	<0.068	<0.10	<0.25	<0.083
Ce-144	<0.13	<0.69	<0.42	<0.19
Location	T-12(C)	T-23(C)	T-27(C)	
Date	06-18-90	06-04-90	06-18-90	
Lab Code	TSO-452	TSO-442	TSO-453	
Be-7	<0.64	<0.39	<0.96	
K-40	17.22±1.27	15.26±0.99	11.34±2.58	
Nb-95	<0.091	<0.071	<0.22	
Zr-95	<0.13	<0.087	<0.28	
Ru-103	<0.066	<0.044	<0.15	
Ru-106	<0.43	<0.34	<0.81	
Cs-137	0.44±0.08	0.19±0.05	0.28±0.12	
Ce-141	<0.12	<0.081	<0.28	
Ce-144	<0.32	<0.26	<1.30	

Table 24. Soil samples, analysis for gamma-emitting isotopes (continued)

Sample Description and Activity (pCi/g dry)				
Location	T-1	T-2	T-3	T-4
Date	10-22-90	10-22-90	10-22-90	10-22-90
Lab Code	TSO-480	TSO-481	TSO-482	TSO-483,4
Be-7	<0.26	<0.33	<0.27	<0.52
K-40	4.02±0.49	6.14±0.61	6.73±0.40	18.18±0.87
Nb-95	<0.029	<0.047	<0.061	<0.095
Zr-95	<0.046	<0.072	<0.061	<0.13
Ru-103	<0.021	<0.040	<0.041	<0.072
Ru-106	<0.19	<0.24	<0.18	<0.45
Cs-137	0.21±0.04	0.13±0.028	<0.020	0.23±0.042
Ce-141	<0.041	<0.068	<0.056	<0.13
Ce-144	<0.15	<0.17	<0.086	<0.32
Location	T-7	T-8	T-9(C)	T-11(C)
Date	10-22-90	10-22-90	10-22-90	10-22-90
Lab Code	TSO-485	TSO-486	TSO-487	TSO-488
Be-7	<0.24	<0.72	<0.36	<0.35
K-40	9.17±0.66	19.86±1.33	15.40±0.96	17.00±1.10
Nb-95	<0.035	<0.10	<0.064	<0.057
Zr-95	<0.046	<0.15	<0.087	<0.081
Ru-103	<0.025	<0.091	<0.047	<0.042
Ru-106	<0.23	<0.55	<0.28	<0.34
Cs-137	<0.038	1.56±0.12	0.42±0.044	0.23±0.06
Ce-141	<0.048	<0.18	<0.081	<0.051
Ce-144	<0.17	<0.42	<0.21	<0.19
Location	T-12(C)	T-23(C)	T-27(C)	
Date	10-22-90	10-11-90	10-22-90	
Lab Code	TSO-489	TSO-479	TSO-490	
Be-7	<0.28	<0.33	<0.57	
K-40	18.56±0.94	11.86±0.86	19.51±0.88	
Nb-95	<0.047	<0.073	<0.092	
Zr-95	<0.068	<0.077	<0.10	
Ru-103	<0.036	<0.045	<0.074	
Ru-106	<0.30	<0.33	<0.37	
Cs-137	0.46±0.05	0.42±0.05	0.36±0.051	
Ce-141	<0.044	<0.061	<0.17	
Ce-144	<0.16	<0.17	<0.30	

Table 25. Treated surface water samples, monthly composites of weekly grab samples, analysis for gross beta, 1990.

Location	Period	Lab Code	Gross Beta Activity (pCi/L)		
			Suspended Solids	Dissolved Solids	Total Residue
T-11 (C)	January	TSWT-4949	<0.5	2.2±0.2	2.2±0.2
	February	5252	0.7±0.2	2.5±0.4	3.2±0.4
	March	5588	<0.3	3.3±0.5	3.3±0.5
	1st Qtr mean±s.d.		0.7±0.2	2.7±0.6	2.9±0.6
	April	TSWT-6023	<0.4	2.1±0.2	2.1±0.2
	May	6314	<0.4	2.2±0.2	2.2±0.2
	June	6663	<0.2	2.4±0.4	2.4±0.4
	2nd Qtr mean±s.d.		<0.4	2.2±0.2	2.2±0.2
	July	TSWT-7243	<0.5	2.2±0.3	2.2±0.3
	August	7540	<0.2	2.5±0.5	2.5±0.5
	September	7811	<0.3	1.8±0.4	1.8±0.4
	3rd Qtr mean±s.d.		<0.5	2.2±0.4	2.2±0.4
	October	TSWT-8311	<0.2	2.8±0.5	2.8±0.5
	November	8637	<0.4	2.4±0.5	2.4±0.5
	December	9055	<0.4	2.1±0.5	2.1±0.5
	4th Qtr mean±s.d.		<0.4	2.4±0.4	2.4±0.4

Table 25. Treated surface water samples, monthly composites of weekly grab samples, analysis for gross beta, 1990 (continued)

Location	Period	Lab Code	Gross Beta Activity (pCi/L)		
			Suspended Solids	Dissolved Solids	Total Residue
T-12 (C)	January	TSWT-4950,1	<0.5	1.9±0.1	1.9±0.1
	February	5253	<0.2	2.0±0.4	2.0±0.4
	March	5589	<0.2	2.4±0.4	2.4±0.4
	1st Qtr mean±s.d.		<0.5	2.1±0.3	2.1±0.3
	April	TSWT-6024	<0.4	1.6±0.2	1.6±0.2
	May	6315	<0.4	2.0±0.2	2.0±0.2
	June	6664	<0.4	1.6±0.3	1.6±0.3
	2nd Qtr mean±s.d.		<0.4	1.7±0.2	1.7±0.2
	July	TSWT-7244	<0.5	1.6±0.4	1.6±0.4
	August	7541	<0.2	1.7±0.4	1.7±0.4
	September	7812	<0.4	2.1±0.4	2.1±0.4
	3rd Qtr mean±s.d.		<0.5	1.8±0.3	1.8±0.3
	October	TSWT-8312	<0.2	1.9±0.4	1.9±0.4
	November	8638	<0.4	2.3±0.4	2.3±0.4
	December	9056	<0.4	1.9±0.4	1.9±0.4
	4th Qtr mean±s.d.		<0.4	2.0±0.2	2.0±0.2

Table 25. Treated surface water samples, monthly composites of weekly grab samples, analysis for gross beta, 1990 (continued)

Location	Period	Lab Code	Gross Beta Activity (pCi/L)		
			Suspended Solids	Dissolved Solids	Total Residue
T-23 (C)	January	TSWT-5117	<0.4	2.2±0.3	2.2±0.3
	February	NS ^a	--	--	--
	March	NS	--	--	--
	1st Qtr mean±s.d.		<0.4	2.2±0.3	2.2±0.3
	April	NS ^a	--	--	--
	May	NS	--	--	--
	June	NS	--	--	--
	2nd Qtr mean±s.d.		--	--	--
	July	NS ^b	--	--	--
	August	NS	--	--	--
	September	NS	--	--	--
	3rd Qtr mean±s.d.		--	--	--
	October	TSWT-8560	<0.4	2.1±0.4	2.1±0.4
	November	8760	<0.4	2.1±0.3	2.1±0.3
	December	9315	<0.2	1.7±0.4	1.7±0.4
	4th Qtr mean±s.d.		<0.4	2.0±0.2	2.0±0.2

^a NS = No sample; sample not received as of 7-30-90.

^b NS = No sample; sample not received as of 10-30-90.

Table 25. Treated surface water samples, monthly composites of weekly grab samples, analysis for gross beta, 1990 (continued)

Location	Period	Lab Code	Gross Beta Activity (pCi/L)		
			Suspended Solids	Dissolved Solids	Total Residue
T-28	January	TSWT-4952	<0.5	2.1±0.2	2.1±0.2
	February	5254	<0.2	1.3±0.4	1.3±0.4
	March	5590,1	<0.3	2.0±0.1	2.0±0.1
	1st Qtr mean±s.d.		<0.5	1.8±0.4	1.8±0.4
	April	TSWT-6025	<0.4	1.8±0.2	1.8±0.2
	May	6316	<0.4	1.9±0.2	1.9±0.2
	June	6665	<0.5	1.6±0.4	1.6±0.4
	2nd Qtr mean±s.d.		<0.5	1.8±0.2	1.8±0.2
	July	TSWT-7245	<0.5	1.8±0.4	1.8±0.4
	August	7542	<0.2	2.1±0.4	2.1±0.4
	September	7813,4	<0.7	1.9±0.4	1.9±0.4
	3rd Qtr mean±s.d.		<0.7	1.9±0.2	1.9±0.2
	October	TSWT-8313	<0.4	2.1±0.4	2.1±0.4
	November	8639,40	<0.4	2.0±0.3	2.0±0.3
	December	9057	<0.4	2.7±0.5	2.7±0.5
	4th Qtr mean±s.d.		<0.4	2.3±0.4	2.3±0.4

Table 25. Treated surface water samples, monthly composites of weekly grab samples, analysis for gross beta, 1990 (continued)

Location	Date Collected	Lab Code	Gross Beta Activity (pCi/L)		
			Suspended Solids	Dissolved Solids	Total Residue
<u>T-50</u>	January	TSWT-4953	<0.8	2.3±0.4	2.3±0.4
	February	5255	<0.2	1.8±0.3	1.8±0.3
	March	5592	<0.3	2.6±0.4	2.6±0.4
	1st Qtr mean±s.d.		<0.8	2.2±0.4	2.2±0.4
	April	TSWT-6026	<0.3	2.6±0.2	2.6±0.2
	May	6317	<0.3	2.1±0.2	2.1±0.2
	June	6666	<0.2	2.4±0.4	2.4±0.4
	2nd Qtr mean±s.d.		<0.3	2.4±0.2	2.4±0.2
	July	TSWT-7246	<0.5	2.2±0.4	2.2±0.4
	August	7543,4	<0.3	1.9±0.3	1.9±0.3
	September	7815	<0.4	2.2±0.4	2.2±0.4
	3rd Qtr mean±s.d.		<0.5	2.1±0.2	2.1±0.2
	October	TSWT-8314	<0.4	2.5±0.6	2.5±0.6
	November	8641	<0.4	2.7±0.3	2.7±0.3
	December	9058	<0.4	1.7±0.4	1.7±0.4
	4th Qtr mean±s.d.		<0.4	2.3±0.5	2.3±0.5

Table 25. Treated surface water samples, monthly composites of weekly grab samples, analysis for gross beta, 1990 (continued)

Location	Date Collected	Lab Code	Gross Beta Activity (pCi/L)		
			Suspended Solids	Dissolved Solids	Total Residue
T-144	January	TSWT-4953	<0.5	2.5±0.4	2.5±0.4
	February	5255	<0.5	3.2±0.5	3.2±0.5
	March	5594	<0.5	2.3±0.4	2.3±0.4
	1st Qtr mean±s.d.		<0.5	2.7±0.5	2.7±0.5
	April	TSWT-6028	<0.3	2.1±0.2	2.1±0.2
	May	6319	<0.3	3.1±0.3	3.1±0.3
	June	6668	<0.2	2.6±0.4	2.6±0.4
	2nd Qtr mean±s.d.		<0.3	2.6±0.5	2.6±0.5
	July	TSWT-7248	<0.5	2.3±0.3	2.3±0.3
	August	7546	<0.2	2.0±0.4	2.0±0.4
	September	7817	<0.3	2.1±0.5	2.1±0.5
	3rd Qtr mean±s.d.		<0.5	2.1±0.2	2.1±0.2
	October	TSWT-8317	<0.4	1.9±0.4	1.9±0.4
	November	8643	<0.4	2.8±0.5	2.8±0.5
	December	9060	<0.4	2.9±0.5	2.9±0.5
	4th Qtr mean±s.d.		<0.4	2.5±0.6	2.5±0.6

Table 26. Treated surface water samples, monthly composite of weekly samples, analysis for gross beta, tritium, gamma-emitting isotopes, strontium-89 and strontium-90, 1990.

Location	Date Collected	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)			
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Cs-137	Sr-89	Sr-90
T-143 (QC)	January	TSWT-4954	<0.5	1.8±0.4	1.8±0.4	<330	<10	<0.8	<0.8
	February	5256	<0.2	1.8±0.3	1.8±0.3	<330	<10	<1.3	<1.4
	March	5593	0.4±0.2	2.3±0.3	2.7±0.4	<330	<10	<1.0	<0.7
	1st Qtr mean±s.d.		0.4±0.2	2.0±0.3	2.1±0.4	<330	<10	<1.3	<1.4
	April	TSWT-6027	<0.3	1.3±0.4	1.3±0.4	<330	<10	<1.1	<0.9
	May	6318	<0.4	1.7±0.3	1.7±0.3	<330	<10	<1.5	<1.6
	June	6667	<0.2	2.4±0.4	2.4±0.4	<330	<10	<1.3	<0.7
	2nd Qtr mean±s.d.		<0.4	1.8±0.6	1.8±0.6	<330	<10	<1.5	<1.6
	July	TSWT-7247	<0.5	1.9±0.4	1.9±0.4	<330	<10	<1.6	<0.7
	August	7545	<0.4	2.0±0.4	2.0±0.4	<330	<10	<1.4	<0.6
	September	7816	<0.3	2.3±0.5	2.3±0.5	<330	<10	<1.0	0.8±0.5
	3rd Qtr mean±s.d.		<0.5	2.1±0.2	2.1±0.2	<330	<10	<1.6	0.8±0.5
	October	TSWT-8315,6	<0.3	2.1±0.3	2.1±0.3	<330	<10	<0.8	<0.5
	November	8642	<0.2	2.8±0.3	2.8±0.3	<330	<10	<0.7	<0.5
	December	9059	<0.4	2.3±0.5	2.3±0.5	<330	<10	<0.7	<0.8
	4th Qtr mean±s.d.		<0.4	2.4±0.4	2.4±0.4	<330	<10	<0.8	<0.8

Table 27. Treated surface water samples, quarterly composites of weekly grab samples, analysis for tritium, strontium and gamma-emitting isotopes.

Location	Collected Date	Lab Code	Activity (pCi/L)			
			H-3	Sr-89	Sr-90	Cs-137
<u>Control</u>						
<u>T-11</u>	1st Quarter	TSWT-5829	<330	<1.1	<0.7	<10
	2nd Quarter	7052	<330	<1.3	<0.6	<10
	3rd Quarter	8251	<330	<1.1	<0.5	<10
	4th Quarter	9189	<u><330</u>	<u><0.6</u>	<u><0.6</u>	<u><10</u>
	Annual mean±s.d.		<330	<1.3	<0.7	<10
<u>T-12</u>	1st Quarter	TSWT-5830,1	<330	<0.8	<0.5	<10
	2nd Quarter	7053	<330	<1.9	<0.9	<10
	3rd Quarter	8252	<330	<1.1	<0.5	<10
	4th Quarter	9190	<u><330</u>	<u><0.6</u>	<u><0.9</u>	<u><10</u>
	Annual mean±s.d.		<330	<1.9	<0.9	<10
<u>T-23</u>	1st Quarter	TSWT-5117	<330	<2.4	<0.9	<10
	2nd Quarter	NS ^a	--	--	--	--
	3rd Quarter	NS	--	--	--	--
	4th Quarter	9339	<u><330</u>	<u><0.4</u>	<u><0.4</u>	<u><10</u>
	Annual mean±s.d.		<330	<2.4	<0.9	<10

^a NS = No sample; sample not received.

Table 27. Treated surface water samples, quarterly composites of weekly grab samples, analysis for tritium, strontium and gamma-emitting isotopes, 1990 (continued)

Location	Collection Date	Lab Code	Activity (pCi/L)			
			H-3	Sr-89	Sr-90	Cs-137
<u>Indicator</u>						
<u>T-28</u>	1st Quarter	TSWT-5832	<330	<1.3	<1.0	<10
	2nd Quarter	7054	<330	<1.7	<0.8	<10
	3rd Quarter	8253	<330	<1.3	<0.6	<10
	4th Quarter	9191	<330	<0.6	<0.7	<10
	Annual mean±s.d.		<330	<1.7	<1.0	<10
<u>T-50</u>	1st Quarter	TSWT-5833	<330	<0.7	<0.5	<10
	2nd Quarter	7055	<330	<1.2	<0.6	<10
	3rd Quarter	8254	<330	<1.6	<0.6	<10
	4th Quarter	9192	<330	<0.6	<0.6	<10
	Annual mean±s.d.		<330	<1.6	<0.6	<10
<u>T-144</u>	1st Quarter	TSWT-5834	<330	<0.8	<0.6	<10
	2nd Quarter	7056	<330	<1.4	<0.6	<10
	3rd Quarter	8258,9	<330	<1.1	<0.5	<10
	4th Quarter	9193	<330	<0.5	<0.5	<10
	Annual mean±s.d.		<330	<1.4	<0.6	<10

Table 28. Untreated surface water samples, monthly composites of weekly samples, analysis for gross beta, tritium, and gamma-emitting isotopes, 1990.

Location	Collection Date	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)	
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Cs-137
<u>Control</u>							
<u>I-11 (C)</u>	January	TSWU-4942	<0.5	2.4±0.4	2.4±0.4	<330	<10
	February	5246	<0.5	2.4±0.2	2.4±0.2	<330	<10
	March	5582	<0.4	2.8±0.4	2.8±0.4	<330	<10
	1st Qtr. mean±s.d.		<0.5	2.5±0.2	2.5±0.2	<330	<10
	April	TSWU-6016	<0.3	2.5±0.2	2.5±0.2	<330	<10
	May	6307	<0.2	1.9±0.2	1.9±0.2	<330	<10
	June	6656	<0.4	2.2±0.4	2.2±0.4	<330	<10
	2nd Qtr. mean±s.d.		<0.4	2.2±0.3	2.2±0.3	<330	<10
	July	TSWU-7236	<0.2	2.7±0.4	2.7±0.4	<330	<10
	August	7534	<0.2	2.7±0.5	2.7±0.5	<330	<10
	September	7804	<0.2	2.0±0.4	2.0±0.4	<330	<10
	3rd Qtr. mean±s.d.		<0.2	2.5±0.4	2.5±0.4	<330	<10
	October	TSWU-8320	<0.2	2.8±0.5	2.8±0.5	<330	<10
	November	8646	<0.2	2.3±0.5	2.3±0.5	<330	<10
	December	9048	<0.4	2.7±0.5	2.7±0.5	<330	<10
	4th Qtr. mean±s.d.		<0.4	2.6±0.3	2.6±0.3	<330	<10

Table 28. Untreated surface water samples, monthly composites of weekly samples, analysis for gross beta, tritium, and gamma-emitting isotopes, 1990 (continued)

Location	Collection Date	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)	
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Cs-137
<u>Control</u>							
<u>I-12 (C)</u>	January	TSWU-4943	<0.5	2.6±0.4	2.6±0.4	<330	<10
	February	5247	<0.5	2.4±0.3	2.4±0.3	<330	<10
	March	5583	<0.4	3.5±0.5	3.5±0.5	<330	<10
	1st Qtr. mean±s.d.		<0.5	2.8±0.6	2.8±0.6	<330	<10
	April	TSWU-6017	<0.3	2.0±0.2	2.0±0.2	<330	<10
	May	6308	0.5±0.1	2.0±0.4	2.5±0.4	<330	<10
	June	6657	<0.4	2.2±0.4	2.2±0.4	<330	<10
	2nd Qtr. mean±s.d		0.5±0.1	2.1±0.1	2.1±0.1	<330	<10
	July	TSWU-7237	<0.5	3.4±0.4	3.4±0.4	<330	<10
	August	7535	<0.2	2.8±0.5	2.8±0.5	<330	<10
	September	7805	<0.2	2.2±0.5	2.2±0.5	<330	<10
	3rd Qtr. mean±s.d.		<0.5	2.8±0.6	2.8±0.6	<330	<10
	October	TSWU-8321	<0.2	2.2±0.5	2.2±0.5	<330	<10
	November	8647	<0.2	2.5±0.3	2.5±0.3	<330	<10
	December	9049	<0.4	2.7±0.5	2.7±0.5	<330	<10
	4th Qtr. mean±s.d.		<0.4	2.5±0.2	2.5±0.2	<330	<10

Table 28. Untreated surface water samples, monthly composites of weekly grab samples, analysis for gross beta, tritium and gamma-emitting isotopes, 1990 (continued)

Location	Period	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)	
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Cs-137
T-23 (C)	January	TSWU-5116	<0.3	2.8±0.9	2.8±0.9	<330	<10
	February	NS ^a	--	--	--	--	--
	March	5667	0.4±0.2	2.4±0.3	2.8±0.4	<330	<10
	1st Qtr. mean±s.d.		0.4±0.2	2.6±0.3	2.8±0.0	<330	<10
	April	TSWU-5955	<0.3	2.3±0.3	2.3±0.3	<330	<10
	May	6411	<0.4	2.0±0.4	2.0±0.4	<330	<10
	June	6736	<0.2	1.7±0.4	1.7±0.4	<330	<10
	2nd Qtr. mean±s.d.		<0.4	2.0±0.3	2.0±0.3	<330	<10
	July	TSWU-7274	<0.2	1.6±0.4	1.6±0.4	<330	<10
	August	7580	<0.2	2.3±0.5	2.3±0.5	<330	<10
	September	7997,8	<0.7	2.0±0.3	2.0±0.3	<330	<10
	3rd Qtr. mean±s.d.		<0.7	2.0±0.4	2.4±0.4	<330	<10
	October	TSWU-8557,8	<0.7	2.2±0.3	2.2±0.3	<330	<10
	November	8759	<0.2	2.0±0.3	2.0±0.3	<330	<10
	December	9314	<0.4	1.5±0.4	1.5±0.4	<330	<10
	4th Qtr. mean±s.d.		<0.7	1.9±0.4	1.9±0.4	<330	<10

^a NS = No sample.

Table 28. Untreated surface water samples, monthly composites of weekly samples, analysis for gross beta, tritium, and gamma-emitting isotopes, 1990 (continued)

Location	Collection Date	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)	
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Cs-137
<u>Indicator</u>							
<u>T-3</u>	January	TSWU-4939	<0.5	2.1±0.3	2.1±0.3	<330	<10
	February	5244	0.7±0.2	2.8±0.3	3.5±0.4	<330	<10
	March	5579	<0.4	2.7±0.4	2.7±0.4	<330	<10
	1st Qtr. mean±s.d.		0.7±0.2	2.5±0.4	2.8±0.7	<330	<10
	April	TSWU-6014	<0.4	2.7±0.2	2.7±0.2	<330	<10
	May	6305	0.3±0.1	2.7±0.3	3.0±0.3	<330	<10
	June	6654	<0.3	3.7±1.1	3.7±1.1	<330	<10
	2nd Qtr. mean±s.d		0.3±0.1	3.0±0.6	3.0±0.6	<330	<10
	July	TSWU-7234	0.6±0.1	2.2±0.4	2.8±0.4	<330	<10
	August	7531	<0.4	2.7±0.7	2.7±0.7	<330	<10
	September	7806	<0.2	2.8±0.5	2.8±0.5	<330	<10
	3rd Qtr. mean±s.d.		0.6±0.1	2.6±0.3	2.8±0.1	<330	<10
	October	TSWU-8318	<0.2	3.1±0.5	3.1±0.5	<330	<10
	November	8644	0.4±0.1	3.9±0.6	4.3±0.6	<330	<10
	December	9046	<0.4	4.1±0.6	4.1±0.6	<330	<10
	4th Qtr. mean±s.d.		0.4±0.1	3.7±0.5	3.8±0.6	<330	<10

Table 28. Untreated surface water samples, monthly composites of weekly samples, analysis for gross beta, tritium, and gamma-emitting isotopes, 1990 (continued)

Location	Collection Date	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)	
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Cs-137
<u>Indicator</u>							
1-28	January	TSWU-4946	<0.5	2.7±0.4	2.7±0.4	<330	<10
	February	5248	<0.5	2.2±0.2	2.2±0.2	<330	<10
	March	5585	<0.4	3.1±0.5	3.1±0.5	<330	<10
	1st Qtr. mean±s.d.		<0.5	2.7±0.4	2.7±0.4	<330	<10
	April	TSWU-6019	<0.4	2.7±0.3	2.7±0.3	<330	<10
	May	6310,1	<0.8	2.4±0.2	2.4±0.2	<330	<10
	June	6659,60	<0.4	2.2±0.3	2.2±0.3	<330	<10
	2nd Qtr. mean±s.d.		<0.8	2.4±0.2	2.4±0.2	<330	<10
	July	TSWU-7239,40	<0.9	2.1±0.2	2.1±0.2	<330	<10
	August	7537	<0.3	2.2±0.4	2.2±0.4	<330	<10
	September	7808	<0.2	2.2±0.5	2.2±0.5	<330	<10
	3rd Qtr. mean±s.d.		<0.9	2.2±0.1	2.2±0.1	<330	<10
	October	TSWU-8323	<0.4	2.1±0.6	2.1±0.6	<330	<10
	November	8649	<0.2	2.9±0.3	2.9±0.3	<330	<10
	December	9052	<0.4	2.5±0.5	2.5±0.5	<330	<10
	4th Qtr. mean±s.d.		<0.4	2.5±0.4	2.5±0.4	<330	<10

^a Result of reanalysis.

Table 28. Untreated surface water samples, monthly composites of weekly samples, analysis for gross beta, tritium, and gamma-emitting isotopes, 1990 (continued)

Location	Collection Date	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)	
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Cs-137
<u>Indicator</u>							
<u>T-50</u>	January	TSWU-4947	<0.5	2.5±0.4	2.5±0.4	<330	<10
	February	5249	<0.5	2.1±0.4	2.1±0.4	<330	<10
	March	5586	<0.4	2.7±0.3	2.7±0.3	<330	<10
	1st Qtr. mean±s.d.		<0.5	2.4±0.3	2.4±0.3	<330	<10
	April	TSWU-6020,1	<0.4	2.4±0.2	2.4±0.2	<330	<10
	May	6312	<0.3	2.2±0.2	2.2±0.2	<330	<10
	June	6661	<0.3	1.6±0.5	1.6±0.5	<330	<10
	2nd Qtr. mean±s.d.		<0.4	2.1±0.4	2.1±0.4	<330	<10
	July	TSWU-7241	<0.5	2.7±0.4	2.7±0.4	<330	<10
	August	7538	<0.3	2.2±0.4	2.2±0.4	<330	<10
	September	7809	<0.2	1.4±0.5	1.4±0.5	<330	<10
	3rd Qtr. mean±s.d.		<0.5	2.1±0.7	2.1±0.7	<330	<10
	October	TSWU-8324	<0.4	2.1±0.6	2.1±0.6	<330	<10
	November	8650,1	<0.2	3.3±0.2	3.3±0.2	<330	<10
	December	9053	<0.4	2.4±0.5	2.4±0.5	<330	<10
	4th Qtr. mean±s.d.		<0.4	2.6±0.6	2.6±0.6	<330	<10

^a Result of reanalysis.

Table 29. Untreated surface water samples, monthly composites of weekly samples, analysis for gross beta, tritium, strontium and gamma-emitting isotopes, 1990.

Location	Collection Date	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)			
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Sr-89	Sr-90	Cs-137
T-145 (QC)	January	TSWU-4948	<0.5	2.3±0.5	2.3±0.5	<330	<0.8	<0.9	<10
	February	5250,1	<0.4	3.2±0.4	3.2±0.4	<330	<0.7	<0.7	<10
	March	5587	<0.3	2.9±0.4	2.9±0.4	<330	<0.9	<0.7	<10
	1st Qtr. mean±s.d.		<0.5	2.8±0.5	2.8±0.5	<330	<0.9	<0.9	<10
	April	TSWU-6022	<0.4	2.3±0.2	2.3±0.2	<330	<0.9	<0.7	<10
	May	6313	0.3±0.2	2.2±0.3	2.5±0.4	<330	<1.3	<1.0	<10
	June	6662	<0.2	2.2±0.4	2.2±0.4	<330	<1.2	<0.7	<10
	2nd Qtr. mean±s.d.		0.3±0.2	2.2±0.1	2.2±0.1	<330	<1.3	<1.0	<10
	July	TSWL-7242	<0.5	2.3±0.4	2.3±0.4	<330	<1.2	<0.5	<10
	August	7539	<0.4	2.7±0.5	2.7±0.5	<330	<1.2	<0.6	<10
	September	7810	<0.2	2.3±0.4	2.3±0.4	<330	<0.8	<0.6	<10
	3rd Qtr. mean±s.d.		<0.5	2.3±0.4	2.3±0.4	<330	<1.2	<0.6	<10
	October	TSWU-8325	<0.2	2.1±0.4	2.1±0.4	<330	<0.9	<0.5	<10
	November	8652	<0.9	2.9±0.5	2.9±0.5	<330	<0.7	<0.5	<10
	December	9054	<0.4	3.0±0.5	3.0±0.5	<330	<0.6	<0.5	<10
	4th Qtr. mean±s.d.		<0.9	2.7±0.5	2.7±0.5	<330	<0.9	<0.5	<10

Table 30. Untreated surface water samples, quarterly composites of weekly grab samples, analysis for strontium, 1990.

Location	Collection Date	Lab Code	Activity (pCi/L)	
			Sr-89	Sr-90
<u>Control</u>				
<u>T-11</u>	1st Quarter	TSWU-5824	<1.1	<0.7
	2nd Quarter	7061	<1.1	<0.7
	3rd Quarter	8233	<1.1	<0.5
	4th Quarter	9197	<0.8	<1.1
	Annual mean±s.d.		<1.1	<1.1
<u>T-12</u>	1st Quarter	TSWU-5825	<0.9	<0.7
	2nd Quarter	7065	<1.5	<0.7
	3rd Quarter	8234	<0.8	<0.6
	4th Quarter	9198	<0.4	<0.8
	Annual mean±s.d.		<1.5	<0.8
<u>T-23</u>	1st Quarter	TSWU-5820	<0.9	<0.7
	2nd Quarter	7169,70	<1.4	<0.8
	3rd Quarter	8261	<1.1	<0.5
	4th Quarter	9352	<0.5	<0.6
	Annual mean±s.d.		<1.4	<0.8

Table 30. Untreated surface water samples, quarterly composites of weekly grab samples, analysis for strontium, 1990 (continued)

Location	Collection Date	Lab Code	Activity (pCi/L)	
			Sr-89	Sr-90
<u>Indicator</u>				
<u>T-3</u>	1st Quarter	TSWU-5822	<0.7	<0.5
	2nd Quarter	7058	<1.0	<0.7
	3rd Quarter	8231	<0.9	<0.7
	4th Quarter	9194	<u><0.3</u>	<u><0.3</u>
	Annual mean±s.d.		<1.0	<0.7
<u>T-28</u>	1st Quarter	TSWU-5827	<1.0	<0.7
	2nd Quarter	7063	<1.1	<0.8
	3rd Quarter	8236	<1.0	<0.8
	4th Quarter	9201	<u><0.4</u>	<u><0.9</u>
	Annual mean±s.d.		<1.1	<0.9
<u>T-50</u>	1st Quarter	TSWU-5828	<1.1	<0.8
	2nd Quarter	7064	<1.1	<0.7
	3rd Quarter	8237	<0.8	0.5±0.2
	4th Quarter	9200	<u><0.4</u>	<u><0.6</u>
	Annual mean±s.d.		<1.1	0.5±0.2

Table 31. Untreated surface lake water samples, monthly composites of weekly grab samples, analysis for gross beta, tritium, strontium-89, strontium-90 and gamma-emitting isotopes, collected May through October, 1990.

Location	Period	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)			
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Sr-89	Sr-90	Cs-137
T-78	(MAY)	TSWU-6337	<0.2	2.3±0.5	2.3±0.5	<330	<1.6	<1.0	<10
	(JUN)	6687	<0.4	2.3±1.2	2.3±1.2	<330	<1.4	<0.9	<10
	(JUL)	7112	<0.2	3.8±0.5	3.8±0.5	<330	<1.3	<0.7	<10
	(AUG)	7560	<0.2	2.0±0.2	2.0±0.2	<330	<1.2	<0.6	<10
	(SEP)	7970	<0.2	2.1±0.4	2.1±0.4	<330	<0.7	0.9±0.4	<10
	(OCT)	ND ^a	--	--	--	--	--	--	--
T-130	(MAY)	TSWU-6338	0.3±0.1	1.9±0.4	2.2±0.4	<330	<1.3	0.9±0.6	<10
	(JUN)	6688	<0.4	3.5±1.4	3.5±1.4	<330	<1.5	<0.8	<10
	(JUL)	7113	<0.3	2.8±0.5	2.8±0.5	<330	<1.3	<0.7	<10
	(AUG)	7550	<0.2	2.3±0.5	2.3±0.5	<330	<0.7	<0.5	<10
	(SEP)	7971	<0.2	2.3±0.5	2.3±0.5	<330	<0.8	<0.6	<10
	(OCT)	8326,7	0.5±0.2	2.2±0.3	2.7±0.4	<330	<0.9	0.5±0.2	<10
T-131	(MAY)	TSWU-6339	0.5±0.3	2.5±0.3	3.0±0.4	<330	<0.9	<0.7	<10
	(JUN)	6689,90	<0.4	3.3±0.9	3.3±0.9	<330	<0.8	<1.4	<10
	(JUL)	7114	<0.2	2.1±0.5	2.1±0.5	<330	<1.2	<0.7	<10
	(AUG)	7551	<0.2	2.4±0.5	2.4±0.5	<330	<0.7	0.5±0.3	<10
	(SEP)	7972	<0.4	2.2±0.5	2.2±0.5	<330	<0.7	0.7±0.4	<10
	(OCT)	8328	<0.2	2.0±0.6	2.0±0.6	<330	<1.0	<0.4	<10
T-132	(MAY)	TSWU-6340,1	<0.5	2.0±0.3	2.0±0.3	<330	<0.8	<0.6	<10
	(JUN)	6691	<0.4	2.5±1.2	2.5±1.2	<330	<1.4	<0.8	<10
	(JUL)	7115	<0.2	2.7±0.5	2.7±0.5	<330	<1.2	<0.7	<10
	(AUG)	7552	<0.2	1.8±0.4	1.8±0.4	<330	<2.2	<1.1	<10
	(SEP)	7973	<0.4	2.0±0.5	2.0±0.5	<330	<1.0	0.8±0.5	<10
	(OCT)	8329	<0.2	2.1±0.6	2.1±0.6	<330	<1.5	<0.7	<10

^a ND = No data; sample not collected.

Table 31. Untreated surface lake water samples, monthly composites of weekly grab samples, analysis for gross beta, tritium, strontium-89, strontium-90 and gamma-emitting isotopes, collected May through October, 1990 (continued)

Location	Period	Lab. Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)			
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Sr-89	Sr-90	Cs-137
T-133	(MAY)	TSWU-6342	<0.2	2.1±0.2	2.1±0.2	<330	<1.4	<0.9	<10
	(JUN)	6692	<0.4	4.0±1.5	4.0±1.5	<330	<1.4	<0.8	<10
	(JUL)	7116	<0.2	2.3±0.5	2.3±0.5	<330	<1.0	0.9±0.4	<10
	(AUG)	7553	<0.2	2.4±0.3	2.4±0.3	<330	<1.4	<0.8	<10
	(SEP)	7974	<0.4	2.2±0.4	2.2±0.4	<330	<0.7	<0.5	<10
	(OCT)	ND ^a	--	--	--	--	--	--	--
T-134	(MAY)	TSWU-6343	<0.3	2.0±0.2	2.0±0.2	<330	<0.9	0.6±0.4	<10
	(JUN)	6693	<0.4	2.3±1.1	2.3±1.1	<330	<1.5	<0.9	<10
	(JUL)	7117	<0.2	2.0±0.4	2.0±0.4	<330	<1.0	0.6±0.3	<10
	(AUG)	7554,5	<0.2	2.6±0.3	2.6±0.3	<330	<1.0	0.5±0.2	<10
	(SEP)	7975,6	<0.9	2.0±0.3	2.0±0.3	718±81 ^b	<0.5	0.6±0.2	<10
	(OCT)	ND	--	--	--	--	--	--	--
T-135	(MAY)	TSWU-6344	0.3±0.1	2.8±0.3	3.1±0.3	<330	<0.7	<0.6	<10
	(JUN)	6694	<0.4	3.3±1.3	3.3±1.3	<330	<1.4	<0.9	<10
	(JUL)	7118	<0.2	2.6±0.4	2.6±0.4	<330	<1.2	<0.5	<10
	(AUG)	7556	<0.2	2.6±0.3	2.6±0.3	<330	<0.9	<0.5	<10
	(SEP)	7977	<0.2	2.2±0.5	2.2±0.5	<330	<0.7	<0.6	<10
	(OCT)	ND	--	--	--	--	--	--	--
T-136	(MAY)	TSWU-6345	<0.3	2.7±0.3	2.7±0.3	<330	<0.8	<0.6	<10
	(JUN)	6695	<0.4	2.9±1.3	2.9±1.3	<330	<1.5	<0.8	<10
	(JUL)	7119,20	<0.4	2.0±0.2	2.0±0.2	<330	<1.0	0.6±0.2	<10
	(AUG)	7557	<0.2	2.2±0.2	2.2±0.2	<330	<1.0	0.7±0.4	<10
	(SEP)	7978	<0.3	1.8±0.4	1.8±0.4	<330	<0.7	0.6±0.3	<10
	(OCT)	ND	--	--	--	--	--	--	--

^a ND = No data; sample not collected.

^b Analysis was repeated; result of reanalysis, 768±82 pCi/L.

Table 31. Untreated surface lake water samples, monthly composites of weekly grab samples, analysis for gross beta, tritium, strontium-89, strontium-90 and gamma-emitting isotopes, collected May through October, 1990 (continued)

Location	Period	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)			
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Sr-89	Sr-90	Cs-137
T-137 (C)	(MAY)	TSWU-6346	<0.2	2.8±0.3	2.8±0.3	<330	<1.4	<0.9	<10
	(JUN)	6696	<0.2	2.3±0.2	2.3±0.2	<330	<1.5	<0.5	<10
	(JUL)	7121	<0.3	2.4±0.3	2.4±0.3	<330	<1.0	<0.5	<10
	(AUG)	7558	0.3±0.1	2.1±0.4	2.1±0.4	<330	<1.0	<0.5	<10
	(SEP)	7979	<0.4	3.0±0.5	3.0±0.5	<330	<1.0	<0.7	<10
	(OCT)	ND ^a	--	--	--	--	--	--	--
T-138 (C)	(MAY)	TSWU-6347	<0.2	3.3±0.5	3.3±0.5	<330	<1.6	<1.0	<10
	(JUN)	6697	<0.5	1.9±1.2	1.9±1.2	<330	<1.1	<0.6	<10
	(JUL)	7122	<0.3	2.3±0.5	2.3±0.5	<330	<1.1	<0.5	<10
	(AUG)	7559	<0.2	2.5±0.5	2.5±0.5	<330	<1.2	<0.6	<10
	(SEP)	7980	<0.4	2.2±0.4	2.2±0.4	<330	<0.8	<0.5	<10
	(OCT)	ND	--	--	--	--	--	--	--
T-156 (C)	(MAY)	TSWU-6348	<0.4	2.7±0.3	2.7±0.3	<330	<0.9	<0.7	<10
	(JUN)	6698	<0.2	2.7±0.2	2.7±0.2	<330	<1.9	<0.7	<10
	(JUL)	7123	<0.3	2.0±0.4	2.0±0.4	<330	<1.4	<0.6	<10
	(AUG)	7561	<0.2	2.8±0.5	2.8±0.5	<330	<1.5	<0.7	<10
	(SEP)	7981	<0.4	2.4±0.5	2.4±0.5	<330	<0.9	<0.6	<10
	(OCT)	ND	--	--	--	--	--	--	--
T-157 (C)	(MAY)	TSWU-6349	<0.4	2.0±0.4	2.0±0.4	<330	<1.7	<1.1	<10
	(JUN)	6699, 700	<0.3	3.1±0.2	3.1±0.2	<330	<1.8	<0.7	<10
	(JUL)	7124	<0.3	2.5±0.3	2.5±0.3	<330	<1.3	<0.6	<10
	(AUG)	7562	<0.3	2.6±0.5	2.6±0.5	<330	<1.2	<0.5	<10
	(SEP)	7982	<0.4	1.8±0.4	1.8±0.4	<330	<0.9	<0.7	<10
	(OCT)	ND	--	--	--	--	--	--	--

^a ND = No data; sample not collected.

Table 31. Untreated surface lake water samples, monthly composites of weekly grab samples, analysis for gross beta, tritium, strontium-89, strontium-90 and gamma-emitting isotopes, collected May through October, 1990 (continued)

Location	Period	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)			
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Sr-89	Sr-90	Cs-137
T-158 (C)	(MAY)	TSWU-6350,1	<0.4	2.3±0.3	2.3±0.3	<330	<1.3	<0.8	<10
	(JUN)	6701	<0.4	4.7±1.1	4.7±1.1	<330	<1.7	<0.7	<10
	(JUL)	7125	<0.2	2.0±0.4	2.0±0.4	<330	<1.3	<0.6	<10
	(AUG)	7563	<0.2	2.3±0.5	2.3±0.5	<330	<1.1	<0.6	<10
	(SEP)	7983	<0.4	2.4±0.5	2.4±0.5	<330	<0.8	<0.6	<10
	(OCT)	ND ^a	--	--	--	--	--	--	--
T-159 (C)	(MAY)	TSWU-6352	0.2±0.1	3.3±0.5	3.3±0.5	<330	<1.0	<0.7	<10
	(JUN)	6702	<0.5	3.8±1.4	3.8±1.4	<330	<1.2	<0.7	<10
	(JUL)	7126	<0.2	2.4±0.3	2.4±0.3	<330	<1.3	<0.6	<10
	(AUG)	7564	<0.2	3.2±0.5	3.2±0.5	<330	<0.9	<0.4	<10
	(SEP)	7984	<0.3	2.8±0.5	2.8±0.5	<330	<0.9	<0.6	<10
	(OCT)	ND	--	--	--	--	--	--	--
T-160	(MAY)	TSWU-ND	--	--	--	--	--	--	--
	(JUN)	ND	--	--	--	--	--	--	--
	(JUL)	7127	<0.2	2.3±0.5	2.3±0.5	<330	<1.5	<0.6	<10
	(AUG)	ND	--	--	--	--	--	--	--
	(SEP)	ND	--	--	--	--	--	--	--
	(OCT)	ND	--	--	--	--	--	--	--
T-161	(MAY)	TSWU-ND	--	--	--	--	--	--	--
	(JUN)	ND	--	--	--	--	--	--	--
	(JUL)	7128	<0.3	1.5±0.4	1.5±0.4	<330	<1.8	<0.8	<10
	(AUG)	ND	--	--	--	--	--	--	--
	(SEP)	ND	--	--	--	--	--	--	--
	(OCT)	ND	--	--	--	--	--	--	--

^a ND = No data; sample not collected.

Table 31. Untreated surface lake water samples, monthly composites of weekly grab samples, analysis for gross beta, tritium, strontium-89, strontium-90 and gamma-emitting isotopes, collected May through October, 1990 (continued)

Location	Period	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)			
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Sr-89	Sr-90	Cs-137
T-162 (C)	(MAY)	TSWU-6353	<0.4	1.9±0.2	1.9±0.2	<330	<1.0	<1.0	<10
	(JUN)	6703	<0.8	2.5±0.9	2.5±0.9	<330	<2.0	<0.8	<10
	(JUL)	7129,30	<0.4	2.1±0.3	2.1±0.3	<330	<1.0	0.8±0.3	<10
	(AUG)	7565,6	<0.4	2.7±0.3	2.7±0.3	<330	<1.1	0.7±0.3	<10
	(SEP)	7985	<0.4	1.9±0.4	1.9±0.4	<330	<0.8	<0.5	<10
	(OCT)	8330	<0.3	3.0±0.5	3.0±0.5	437±106	<1.3	<0.6	<10
T-163 (C)	(MAY)	TSWU-6354	<0.4	2.3±0.3	2.3±0.3	<330	<0.9	<0.8	<10
	(JUN)	6704	<0.4	2.5±1.0	2.5±1.0	<330	<1.9	<0.8	<10
	(JUL)	7131	<0.2	2.4±0.5	2.4±0.5	<330	<1.7	0.9±0.5	<10
	(AUG)	7567	<0.2	1.9±0.4	1.9±0.4	<330	<1.5	<0.7	<10
	(SEP)	7986,7	<0.7	1.9±0.3	1.9±0.3	<330	<1.1	<0.8	<10
	(OCT)	8331	<0.4	2.1±0.6	2.1±0.6	<330	<1.5	0.8±0.5	<10
T-164 (C)	(MAY)	TSWU-6355	<0.4	3.1±0.5	3.1±0.5	<330	<1.4	<0.9	<10
	(JUN)	6705	<0.4	2.8±0.9	2.8±0.9	<330	<1.8	0.7±0.4	<10
	(JUL)	7132	<0.2	2.7±0.5	2.7±0.5	<330	<1.8	<0.7	<10
	(AUG)	7568	<0.2	1.8±0.4	1.8±0.4	<330	<1.4	<0.7	<10
	(SEP)	7988	<0.4	2.4±0.5	2.4±0.5	<330	<1.2 ^a	0.6±0.2 ^a	<10
	(OCT)	8332	<0.4	1.7±0.6	1.7±0.6	<330	<2.3	<1.0	<10
T-165 (C)	(MAY)	TSWU-6356	<0.4	2.4±0.3	2.4±0.3	<330	<0.7	<0.6	<10
	(JUN)	6706	<0.4	2.5±1.0	2.5±1.0	<330	<1.1	<0.4	<10
	(JUL)	7133	<0.2	2.9±0.5	2.9±0.5	<330	<1.3	<0.5	<10
	(AUG)	7569	0.4±0.2	3.3±0.5	3.7±0.5	<330	<1.2	<0.6	<10
	(SEP)	7989	<0.4	2.4±0.5	2.4±0.5	<330	<0.8	<0.6	<10
	(OCT)	8333	<0.4	2.2±0.6	2.2±0.6	<330	<1.6	<0.7	<10

^a Corrected result.

Table 31. Untreated surface lake water samples, monthly composites of weekly grab samples, analysis for gross beta, tritium, strontium-89, strontium-90 and gamma-emitting isotopes, collected May through October, 1990 (continued)

Location	Period	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)			
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Sr-89	Sr-90	Cs-137
T-166 (C)	(MAY)	TSWU-6357	0.6±0.3	2.2±0.2	2.8±0.4	<330	<1.0	<1.0	<10
	(JUN)	6707	<0.4	1.8±0.8	1.8±0.8	<330	<1.5	0.6±0.4	<10
	(JUL)	7134	<0.2	2.8±0.5	2.8±0.5	<330	<1.8	0.8±0.5	<10
	(AUG)	7570	<0.2	2.2±0.5	2.2±0.5	<330	<1.1	<0.5	<10
	(SEP)	7990	<0.4	2.3±0.4	2.3±0.4	<330	<1.0	<0.8	<10
	(OCT)	8334	<0.4	1.5±0.5	1.5±0.5	<330	<2.3	<1.0	<10
T-167 (C)	(MAY)	TSWU-6358	0.3±0.1	2.2±0.4	2.5±0.4	<330	<1.4	<0.8	<10
	(JUN)	6708	<0.4	2.6±0.9	2.6±0.9	<330	<1.9	<0.8	<10
	(JUL)	7135	<0.2	1.1±0.3	1.1±0.3	<330	<2.0	<0.9	<10
	(AUG)	7571	<0.2	2.1±0.3	2.1±0.3	<330	<1.3	0.7±0.4	<10
	(SEP)	7991	<0.4	2.3±0.5	2.3±0.5	<330	<1.2	<0.6	<10
	(OCT)	8335	<0.4	1.6±0.4	1.6±0.4	<330	<1.4	<0.6	<10
T-168 (C)	(MAY)	TSWU-6359,60	<0.3	1.5±0.2	1.5±0.2	<330	<1.4	<0.9	<10
	(JUN)	6709,10	<0.8	3.0±0.7	3.0±0.7	<330	<1.6	<0.6	<10
	(JUL)	7136	<0.2	2.1±0.5	2.1±0.5	<330	<1.7	<0.7	<10
	(AUG)	7572	<0.3	2.4±0.4	2.4±0.4	<330	<1.2	0.8±0.4	<10
	(SEP)	7992	<0.4	1.9±0.4	1.9±0.4	<330	<1.1	<0.5	<10
	(OCT)	ND ^a	--	--	--	--	--	--	--
T-169 (C)	(MAY)	TSWU-6361	<0.3	2.2±0.4	2.2±0.4	<330	<1.4	<1.0	<10
	(JUN)	6711	<0.4	1.8±0.6	1.8±0.6	<330	<1.7	<0.6	<10
	(JUL)	7137	<0.2	1.7±0.4	1.7±0.4	<330	<1.6	0.9±0.4	<10
	(AUG)	7573	<0.6	2.0±0.4	2.0±0.4	<330	<1.1	0.7±0.4	<10
	(SEP)	7993	<0.4	2.1±0.5	2.1±0.5	<330	<1.6	<0.7	<10
	(OCT)	ND	--	--	--	--	--	--	--

^a ND = No data; sample not collected.

Table 31. Untreated surface lake water samples, monthly composites of weekly grab samples, analysis for gross beta, tritium, strontium-89, strontium-90 and gamma-emitting isotopes, collected May through October, 1990 (continued)

Location	Period	Lab Code	Gross Beta Activity (pCi/L)			Activity (pCi/L)			
			Suspended Solids	Dissolved Solids	Total Residue	H-3	Sr-89	Sr-90	Cs-137
T-170 (C)	(MAY)	TSWU-6362	<0.4	2.9±0.5	2.9±0.5	<330	<1.3	<1.0	<10
	(JUN)	6712	<0.4	1.9±0.5	1.9±0.5	<330	<1.8	<0.8	<10
	(JUL)	7138	<0.2	1.8±0.4	1.8±0.4	<330	<2.0	<0.8	<10
	(AUG)	7574	<0.2	1.5±0.4	1.5±0.4	<330	<1.0	0.6±0.3	<10
	(SEP)	7994	<0.5	1.4±0.4	1.4±0.4	<330	<1.1	0.7±0.3	<10
	(OCT)	ND ^a	--	--	--	--	--	--	--
T-171 (C)	(MAY)	TSWU-6363	<0.4	1.9±0.4	1.9±0.4	<330	<1.5	<1.0	<10
	(JUN)	6713	<0.4	2.7±0.6	2.7±0.6	<330	<1.6	<0.7	<10
	(JUL)	7139, 40	<0.4	2.0±0.3	2.0±0.3	<330	<1.8	<0.7	<10
	(AUG)	7575	<0.3	1.3±0.3	1.3±0.3	<330	<1.5	1.2±0.5	<10
	(SEP)	7995	<0.4	2.3±0.4	2.3±0.4	<330	<1.0	<0.5	<10
	(OCT)	ND	--	--	--	--	--	--	--
T-172 (C)	(MAY)	TSWU-6364	<0.2	2.2±0.5	2.2±0.5	<330	<1.4	<0.9	<10
	(JUN)	6714	<0.4	2.1±0.6	2.1±0.6	<330	<1.6	<0.6	<10
	(JUL)	7141	<0.2	1.8±0.4	1.8±0.4	<330	<1.6	<0.7	<10
	(AUG)	7576	<0.2	1.8±0.3	1.8±0.3	<330	<1.4	<0.7	<10
	(SEP)	7996	<0.4	2.3±0.5	2.3±0.5	<330	<1.1	<0.5	<10
	(OCT)	ND	--	--	--	--	--	--	--

^a ND = No data; sample not collected.

Table 32. Fish samples, analyses for gross beta and gamma-emitting isotopes.
Collection: Semiannually.

Sample Description and Activity (pCi/g wet)						
Location	Indicator			Control		
	T-33 (Lake Erie 1.5 mi NE of Station)			T-35		
Collection Date	05-23-90	05-23-90	05-23-90	05-23-90	05-23-90	05-23-90
Lab Code	TF-1071	TF-1072,3	TF-1074	TF-1068	TF-1069	TF-1070
Sample Type	Carp	White Bass	Walleye	White Bass	Walleye	Carp
Gross Beta	3.19±0.13	2.03±0.06	3.96±0.15	2.58±0.11	3.86±0.15	3.10±0.13
K-40	2.74±0.37	1.96±0.32	3.16±0.42	2.09±0.26	3.26±0.51	3.12±0.19
Cs-137	<0.019	<0.023	0.13±0.023 ^a	<0.014	<0.031	<0.009
Location	T-33 (Lake Erie 1.5 mi NE of Station)		T-35			
Collection Date	11-19-90	11-19-90	11-19-90	11-19-90	11-19-90	11-19-90
Lab Code	TF-1346	TF-1347	TF-1348	TF-1349	TF-1350	TF-1350
Sample Type	White Bass	Walleye	White Bass	Walleye	Carp	Carp
Gross Beta	2.98±0.11	3.06±0.08	3.42±0.12	2.79±0.07	2.13±0.06	2.13±0.06
K-40	2.96±0.41	3.01±0.51	3.02±0.47	2.79±0.44	2.52±0.37	2.52±0.37
Cs-137	<0.019	<0.033	<0.026	<0.027	<0.017	<0.017

^a Result of reanalysis: 0.14±0.022 pCi/g wet.

Table 33. Bottom sediment samples, analyses for gamma-emitting isotopes.
Collection: Semiannually.

Sample Description and Activity (pCi/g dry)					
Location	Indicator			Control	
	T-3		T-4	T-23	T-27
Collection Date	04-30-90		04-30-90	06-04-90	04-30-90
Lab Code	TBS-741		TBS-742,3	TBS-781	TBS-744
K-40	12.2±0.7		14.4±0.4	11.9±1.2	12.4±0.6
Mn-54	<0.025		<0.027	<0.11	<0.025
Co-58	<0.028		<0.030	<0.16	<0.023
Co-60	<0.038		<0.033	<0.11	<0.032
Cs-134	<0.021		<0.034	<0.13	<0.021
Cs-137	<0.031		<0.024	0.49±0.083	<0.027
Location	T-1	T-3	T-4	T-23	T-27
Collection Date	09-20-90	09-20-90	09-20-90	10-11-90	11-02-90
Lab Code	TBS-875	TBS-876	TBS-877	TBS-832	TBS-878
K-40	4.0±0.72	10.4±0.70	14.2±0.56	12.0±0.9	10.0±0.60
Mn-54	<0.039	<0.039	<0.038	<0.038	<0.018
Co-58	<0.058	<0.059	<0.057	<0.038	<0.029
Co-60	<0.040	<0.041	<0.043	<0.042	<0.031
Cs-134	<0.032	<0.030	<0.044	<0.032	<0.019
Cs-137	<0.038	<0.030	<0.035	<0.091	<0.020

Table 34. Grass samples, analyses for iodine-131 and gamma-emitting isotopes.^a

Sample Description and Activity (pCi/g dry)	
Location	
Collection Date	
Lab Code	
I-131	
K-40	
Nb-95	
Zr-95	
Cs-134	
Cs-137	
Ce-141	
Ce-144	

^a Grass samples were not collected in 1990.

Table 35. Egg samples, analysis for gamma-emitting isotopes.
Collection: Annually.

Sample Description and Activity (pCi/g wet)		
Location	T-147 (C)	T-197
Date		07-20-90
Lab Code		TE-54
K-40		0.97±0.24
Nb-95		<0.017
Zr-95		<0.030
Ru-103		<0.014
Ru-106		<0.11
Cs-137		<0.012
Ce-141		<0.017
Ce-144		<0.048

Appendix:

Elevated LLDs in
Airborne Iodine Samples

Appendix:

Elevated Lower Limits of Detection in
Airborne Iodine Samples

Date Collected	Location	I-131 pCi/m ³	Comments
01-22-90	T-11	<0.24	Elevated LLD due to low volume.
09-10-90	T-7	<0.34	Elevated LLD due to low volume.
