

MONTHLY
PROGRESS REPORT

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

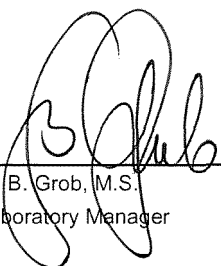
DAVIS-BESSE NUCLEAR POWER STATION
OAK HARBOR, OHIO

Reporting Period: January - December, 2011

Prepared and Submitted by
ENVIRONMENTAL, INC.,
MIDWEST LABORATORY

Project Number: 8003

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1.0 INTRODUCTION

The following constitutes the final 2011 Monthly Progress Report for the Radiological Environmental Monitoring Program conducted at the Davis-Besse Nuclear Power Station in Oak Harbor, Ohio. Results of completed analyses are presented in the attached tables.

All activities, except gross alpha and gross beta, are decay corrected to the time of collection.

All samples were collected within the scheduled period unless noted otherwise in the Listing of Missed Samples.

2.0 LISTING OF MISSED SAMPLES

Sample Type	Location	Expected Collection Date	Reason
AP	T-11	09-06-11	Sampler pump not running; open fuse.
WL	T-210	12-08-11	No sample available.
TLD	T-114	01-11-12	Quarterly, TLD lost in the field.
TLD	T-124	01-11-12	Quarterly, TLD lost in the field.
TLD	T-114	01-11-12	Annual, TLD lost in the field.
TLD	T-124	01-11-12	Annual, TLD lost in the field.
WW	T-27A	1st Qtr, 2011	No sample available.
WW	T-141	1st Qtr, 2011	No sample available.
WW	T-225	1st Qtr, 2011	No sample available.
WW	T-225	2nd Qtr, 2011	No sample available.
WW	T-226	1st Qtr, 2011	No sample available.

3.0 DATA TABULATIONS

Table 1. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-1

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta	
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>	
01-04-11	304	0.031 ± 0.004	07-06-11	286	0.027 ± 0.004	
01-11-11	302	0.041 ± 0.004	07-12-11	244	0.029 ± 0.004	
01-18-11	295	0.027 ± 0.004	07-19-11	286	0.028 ± 0.004	
01-25-11	303	0.030 ± 0.004	07-26-11	287	0.032 ± 0.004	
01-31-11	262	0.036 ± 0.004	08-02-11	286	0.034 ± 0.004	
02-08-11	345	0.026 ± 0.003	08-09-11	286	0.031 ± 0.004	
02-15-11	303	0.030 ± 0.003	08-16-11	286	0.021 ± 0.003	
02-22-11	304	0.024 ± 0.003	08-23-11	282	0.036 ± 0.004	
03-01-11	303	0.026 ± 0.003	08-30-11	286	0.024 ± 0.003	
03-08-11	303	0.022 ± 0.003	09-06-11	286	0.047 ± 0.004	
03-15-11	302	0.019 ± 0.003	09-13-11	286	0.016 ± 0.003	
03-22-11 ^b	304	0.031 ± 0.004	09-20-11	287	0.018 ± 0.003	
03-29-11 ^b	302	0.024 ± 0.004	09-27-11	285	0.024 ± 0.003	
1st Quarter Mean ± s.d.		0.028 ± 0.006	3rd Quarter Mean ± s.d.		0.028 ± 0.008	
04-05-11 ^d	305	0.043 ± 0.004	10-04-11	286	0.014 ± 0.003	
04-12-11 ^d	302	0.018 ± 0.003	10-11-11	287	0.043 ± 0.005	
04-19-11	304	0.026 ± 0.003	10-18-11	282	0.028 ± 0.004	
04-26-11	304	0.015 ± 0.003	10-25-11	280	0.022 ± 0.003	
05-03-11	303	0.017 ± 0.003	11-01-11	281	0.022 ± 0.003	
05-10-11	303	0.017 ± 0.003	11-08-11	284	0.030 ± 0.004	
05-17-11	303	0.016 ± 0.003	11-15-11	279	0.031 ± 0.004	
05-24-11	286	0.011 ± 0.003	11-22-11	281	0.027 ± 0.004	
05-31-11	282	0.013 ± 0.003	11-29-11	281	0.017 ± 0.003	
06-07-11	286	0.028 ± 0.004	12-06-11	281	0.017 ± 0.003	
06-14-11	286	0.019 ± 0.003	12-13-11	281	0.035 ± 0.004	
06-21-11	286	0.016 ± 0.003	12-20-11	288	0.035 ± 0.004	
06-29-11	328	0.015 ± 0.003	12-28-11	328	0.023 ± 0.003	
2nd Quarter Mean ± s.d.		0.020 ± 0.008	01-03-12	247	0.015 ± 0.003	
			4th Quarter Mean ± s.d.		0.026 ± 0.009	
					Cumulative Average	0.025

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

^b Iodine-131 activity detected, refer to Appendix C, "Supplementary Analyses".

Table 2. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-2

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>
01-04-11	286	0.037 ± 0.004	07-06-11	285	0.024 ± 0.003
01-11-11	285	0.043 ± 0.004	07-12-11	244	0.023 ± 0.004
01-18-11	286	0.028 ± 0.004	07-19-11	287	0.026 ± 0.003
01-25-11	286	0.033 ± 0.004	07-26-11	286	0.046 ± 0.004
01-31-11	247	0.036 ± 0.004	08-02-11	286	0.028 ± 0.003
02-08-11	326	0.023 ± 0.003	08-09-11	285	0.031 ± 0.004
02-15-11	286	0.024 ± 0.003	08-16-11	286	0.019 ± 0.003
02-22-11	287	0.021 ± 0.003	08-23-11	296	0.032 ± 0.004
03-01-11	289	0.011 ± 0.003	08-30-11	286	0.021 ± 0.003
03-08-11	283	0.023 ± 0.003	09-06-11	285	0.046 ± 0.004
03-15-11	286	0.021 ± 0.003	09-13-11	286	0.016 ± 0.003
03-22-11 ^b	286	0.033 ± 0.004	09-20-11	282	0.018 ± 0.003
03-29-11 ^b	275	0.028 ± 0.004	09-27-11	285	0.026 ± 0.003
1st Quarter Mean ± s.d.		0.028 ± 0.009	3rd Quarter Mean ± s.d.		0.027 ± 0.010
04-05-11 ^b	287	0.045 ± 0.004	10-04-11	286	0.016 ± 0.003
04-12-11	285	0.017 ± 0.003	10-11-11	287	0.048 ± 0.005
04-19-11	286	0.027 ± 0.003	10-18-11	286	0.028 ± 0.004
04-26-11	287	0.017 ± 0.003	10-25-11	284	0.022 ± 0.003
05-03-11	285	0.015 ± 0.003	11-01-11	286	0.024 ± 0.003
05-10-11	285	0.016 ± 0.003	11-08-11	288	0.026 ± 0.003
05-17-11	286	0.021 ± 0.003	11-15-11	284	0.032 ± 0.004
05-24-11	286	0.015 ± 0.003	11-22-11	286	0.024 ± 0.003
05-31-11	287	0.015 ± 0.003	11-29-11	286	0.021 ± 0.003
06-07-11	286	0.025 ± 0.003	12-06-11	285	0.019 ± 0.003
06-14-11	285	0.022 ± 0.003	12-13-11	285	0.036 ± 0.004
06-21-11	286	0.015 ± 0.003	12-20-11	286	0.038 ± 0.005
06-29-11	328	0.015 ± 0.003	12-28-11	328	0.021 ± 0.003
			01-03-12	247	0.024 ± 0.004
2nd Quarter Mean ± s.d.		0.020 ± 0.008	4th Quarter Mean ± s.d.		0.027 ± 0.009
				Cumulative Average	0.026

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

^b Iodine-131 activity detected, refer to Appendix C, "Supplementary Analyses".

Table 3. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-3

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>
01-04-11	277	0.036 ± 0.004	07-06-11	284	0.023 ± 0.003
01-11-11	286	0.038 ± 0.004	07-12-11	242	0.029 ± 0.004
01-18-11	286	0.025 ± 0.003	07-19-11	285	0.023 ± 0.003
01-25-11	286	0.032 ± 0.004	07-26-11	284	0.041 ± 0.004
01-31-11	248	0.035 ± 0.004	08-02-11	284	0.027 ± 0.003
02-08-11	325	0.028 ± 0.003	08-09-11	283	0.033 ± 0.004
02-15-11	286	0.026 ± 0.003	08-16-11	295	0.022 ± 0.003
02-22-11	286	0.024 ± 0.003	08-23-11	297	0.033 ± 0.004
03-01-11	288	0.023 ± 0.003	08-30-11	289	0.022 ± 0.003
03-08-11	283	0.023 ± 0.003	09-06-11	284	0.045 ± 0.004
03-15-11	291	0.016 ± 0.003	09-13-11	286	0.020 ± 0.003
03-22-11 ^b	288	0.026 ± 0.003	09-20-11	286	0.018 ± 0.003
03-29-11 ^b	285	0.029 ± 0.004	09-27-11	284	0.024 ± 0.003
1st Quarter Mean ± s.d.		0.028 ± 0.006	3rd Quarter Mean ± s.d.		0.028 ± 0.008
04-05-11 ^b	287	0.040 ± 0.004	10-04-11	286	0.016 ± 0.003
04-12-11	285	0.022 ± 0.003	10-11-11	287	0.040 ± 0.004
04-19-11	286	0.032 ± 0.004	10-18-11	291	0.027 ± 0.004
04-26-11	281	0.017 ± 0.003	10-25-11	292	0.021 ± 0.003
05-03-11	277	0.029 ± 0.004	11-01-11	291	0.021 ± 0.003
05-10-11	277	0.013 ± 0.003	11-08-11	294	0.027 ± 0.003
05-17-11	275	0.019 ± 0.003	11-15-11	288	0.029 ± 0.004
05-24-11	275	0.014 ± 0.003	11-22-11	291	0.025 ± 0.003
05-31-11	276	0.013 ± 0.003	11-29-11	291	0.019 ± 0.003
06-07-11	284	0.026 ± 0.004	12-06-11	290	0.022 ± 0.003
06-14-11	283	0.022 ± 0.003	12-13-11	290	0.033 ± 0.004
06-21-11	284	0.016 ± 0.003	12-20-11	291	0.037 ± 0.004
06-29-11	326	0.015 ± 0.003	12-28-11	331	0.020 ± 0.003
2nd Quarter Mean ± s.d.		0.021 ± 0.008	01-03-12	259	0.025 ± 0.004
			4th Quarter Mean ± s.d.		0.026 ± 0.007
Cumulative Average					0.026

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

^b Iodine-131 activity detected, refer to Appendix C, "Supplementary Analyses".

Table 4. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-4

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>
01-04-11	287	0.037 ± 0.004	07-06-11	286	0.025 ± 0.004
01-11-11	287	0.040 ± 0.004	07-12-11	244	0.028 ± 0.004
01-18-11	287	0.029 ± 0.004	07-19-11	287	0.025 ± 0.003
01-25-11	296	0.038 ± 0.004	07-26-11	276	0.031 ± 0.004
01-31-11	248	0.035 ± 0.004	08-02-11	275	0.031 ± 0.004
02-08-11	315	0.026 ± 0.003	08-09-11	275	0.030 ± 0.004
02-15-11	290	0.027 ± 0.003	08-16-11	275	0.023 ± 0.003
02-22-11	288	0.022 ± 0.003	08-23-11	277	0.037 ± 0.004
03-01-11	291	0.027 ± 0.004	08-30-11	276	0.024 ± 0.003
03-08-11	291	0.025 ± 0.003	09-06-11	274	0.048 ± 0.004
03-15-11	291	0.018 ± 0.003	09-13-11	275	0.019 ± 0.003
03-22-11 ^b	289	0.027 ± 0.004	09-20-11	276	0.017 ± 0.003
03-29-11 ^b	284	0.029 ± 0.004	09-27-11	274	0.026 ± 0.004
1st Quarter Mean ± s.d.		0.029 ± 0.007	3rd Quarter Mean ± s.d.		0.028 ± 0.008
04-05-11 ^b	292	0.046 ± 0.004	10-04-11	275	0.017 ± 0.004
04-12-11	289	0.021 ± 0.003	10-11-11	277	0.049 ± 0.005
04-19-11	291	0.030 ± 0.003	10-18-11	276	0.027 ± 0.004
04-26-11	292	0.019 ± 0.003	10-25-11	274	0.022 ± 0.003
05-03-11	290	0.024 ± 0.003	11-01-11	275	0.022 ± 0.003
05-10-11	291	0.018 ± 0.003	11-08-11	279	0.030 ± 0.004
05-17-11	291	0.017 ± 0.003	11-15-11	274	0.029 ± 0.004
05-24-11	291	0.013 ± 0.003	11-22-11	276	0.024 ± 0.004
05-31-11	285	0.016 ± 0.003	11-29-11	275	0.019 ± 0.003
06-07-11	286	0.026 ± 0.004	12-06-11	275	0.022 ± 0.003
06-14-11	285	0.021 ± 0.003	12-13-11	274	0.041 ± 0.004
06-21-11	286	0.019 ± 0.003	12-20-11	276	0.045 ± 0.005
06-29-11	328	0.015 ± 0.003	12-28-11	327	0.025 ± 0.003
2nd Quarter Mean ± s.d.		0.022 ± 0.009	01-03-12	249	0.025 ± 0.004
			4th Quarter Mean ± s.d.		0.028 ± 0.010
Cumulative Average					0.027

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

^b Iodine-131 activity detected, refer to Appendix C, "Supplementary Analyses".

Table 5. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-7

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>
01-04-11	286	0.049 ± 0.004	07-06-11	282	0.024 ± 0.004
01-11-11	285	0.046 ± 0.004	07-12-11	244	0.032 ± 0.004
01-18-11	286	0.025 ± 0.004	07-19-11	284	0.022 ± 0.003
01-25-11	286	0.036 ± 0.004	07-26-11	284	0.031 ± 0.004
01-31-11	247	0.038 ± 0.004	08-02-11	288	0.032 ± 0.004
02-08-11	325	0.025 ± 0.003	08-09-11	287	0.031 ± 0.004
02-15-11	286	0.027 ± 0.003	08-16-11	283	0.024 ± 0.003
02-22-11	285	0.021 ± 0.003	08-23-11	288	0.034 ± 0.004
03-01-11	275	0.027 ± 0.004	08-30-11	281	0.025 ± 0.003
03-08-11	285	0.021 ± 0.003	09-06-11	284	0.050 ± 0.004
03-15-11	284	0.020 ± 0.003	09-13-11	284	0.025 ± 0.003
03-22-11 ^b	286	0.028 ± 0.004	09-20-11	283	0.018 ± 0.003
03-29-11 ^b	285	0.027 ± 0.004	09-27-11	285	0.024 ± 0.003
1st Quarter Mean ± s.d.		0.030 ± 0.009	3rd Quarter Mean ± s.d.		0.029 ± 0.008
04-05-11 ^b	287	0.049 ± 0.004	10-04-11	288	0.015 ± 0.003
04-12-11 ^b	286	0.020 ± 0.003	10-11-11	282	0.047 ± 0.005
04-19-11	286	0.030 ± 0.004	10-18-11	281	0.029 ± 0.004
04-26-11	286	0.018 ± 0.003	10-25-11	283	0.021 ± 0.003
05-03-11	286	0.015 ± 0.003	11-01-11	284	0.022 ± 0.003
05-10-11	285	0.016 ± 0.003	11-08-11	285	0.034 ± 0.004
05-17-11	282	0.019 ± 0.003	11-15-11	284	0.031 ± 0.004
05-24-11	282	0.014 ± 0.003	11-22-11	287	0.025 ± 0.003
05-31-11	284	0.014 ± 0.003	11-29-11	285	0.016 ± 0.003
06-07-11	282	0.029 ± 0.004	12-06-11	289	0.019 ± 0.003
06-14-11	281	0.023 ± 0.003	12-13-11	291	0.036 ± 0.004
06-21-11	282	0.015 ± 0.003	12-20-11	292	0.042 ± 0.005
06-29-11	322	0.015 ± 0.003	12-28-11	338	0.020 ± 0.003
2nd Quarter Mean ± s.d.		0.021 ± 0.010	01-03-12	245	0.024 ± 0.004
			4th Quarter Mean ± s.d.		0.027 ± 0.010
Cumulative Average					0.027

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

^b Iodine-131 activity detected, refer to Appendix C, "Supplementary Analyses".

Table 6. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-8

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>
01-04-11	298	0.041 ± 0.004	07-06-11	275	0.024 ± 0.004
01-11-11	274	0.043 ± 0.004	07-12-11	238	0.030 ± 0.004
01-18-11	275	0.025 ± 0.004	07-19-11	277	0.029 ± 0.004
01-25-11	277	0.037 ± 0.004	07-26-11	277	0.032 ± 0.004
01-31-11	255	0.032 ± 0.004	08-02-11	277	0.031 ± 0.004
02-08-11	328	0.028 ± 0.003	08-09-11	287	0.034 ± 0.004
02-15-11	289	0.016 ± 0.003	08-16-11	275	0.024 ± 0.004
02-22-11	294	0.022 ± 0.003	08-23-11	297	0.035 ± 0.004
03-01-11	288	0.024 ± 0.003	08-30-11	275	0.022 ± 0.003
03-08-11	278	0.020 ± 0.003	09-06-11	286	0.050 ± 0.004
03-15-11	287	0.017 ± 0.003	09-13-11	277	0.021 ± 0.003
03-22-11 ^b	289	0.030 ± 0.004	09-20-11	281	0.020 ± 0.003
03-29-11 ^b	288	0.028 ± 0.004	09-27-11	284	0.024 ± 0.003
1st Quarter Mean ± s.d.		0.028 ± 0.009	3rd Quarter Mean ± s.d.		0.029 ± 0.008
04-05-11 ^b	289	0.041 ± 0.004	10-04-11	278	0.017 ± 0.004
04-12-11 ^b	289	0.019 ± 0.003	10-11-11	293	0.046 ± 0.005
04-19-11	288	0.039 ± 0.004	10-18-11	279	0.031 ± 0.004
04-26-11 ^b	291	0.015 ± 0.003	10-25-11	285	0.022 ± 0.003
05-03-11	298	0.014 ± 0.003	11-01-11	286	0.025 ± 0.003
05-10-11	297	0.014 ± 0.003	11-08-11	302	0.029 ± 0.003
05-17-11	280	0.018 ± 0.003	11-15-11	281	0.028 ± 0.004
05-24-11	288	0.011 ± 0.003	11-22-11	286	0.026 ± 0.004
05-31-11	288	0.012 ± 0.003	11-29-11	268	0.019 ± 0.003
06-07-11	289	0.026 ± 0.003	12-06-11	286	0.019 ± 0.003
06-14-11	288	0.023 ± 0.003	12-13-11	286	0.036 ± 0.004
06-21-11	285	0.017 ± 0.003	12-20-11	286	0.042 ± 0.005
06-29-11	330	0.017 ± 0.003	12-28-11	330	0.020 ± 0.003
2nd Quarter Mean ± s.d.		0.020 ± 0.010	01-03-12	239	0.023 ± 0.004
			4th Quarter Mean ± s.d.		0.027 ± 0.009
Cumulative Average					0.026

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

^b Iodine-131 activity detected, refer to Appendix C, "Supplementary Analyses".

Table 7. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-9 (C)

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>
01-04-11	266	0.035 ± 0.004	07-06-11	274	0.025 ± 0.004
01-11-11	289	0.045 ± 0.004	07-12-11	253	0.028 ± 0.004
01-18-11	286	0.027 ± 0.004	07-19-11	287	0.025 ± 0.003
01-25-11	287	0.037 ± 0.004	07-26-11	277	0.033 ± 0.004
01-31-11	244	0.036 ± 0.004	08-02-11	286	0.036 ± 0.004
02-08-11	332	0.027 ± 0.003	08-09-11	295	0.034 ± 0.004
02-15-11	292	0.027 ± 0.003	08-16-11	276	0.023 ± 0.003
02-22-11	291	0.024 ± 0.003	08-23-11	296	0.036 ± 0.004
03-01-11	286	0.025 ± 0.003	08-30-11	276	0.021 ± 0.003
03-08-11	283	0.021 ± 0.003	09-06-11	291	0.051 ± 0.004
03-15-11	286	0.020 ± 0.003	09-13-11	286	0.022 ± 0.003
03-22-11 ^b	289	0.028 ± 0.004	09-20-11	289	0.022 ± 0.003
03-29-11 ^b	289	0.028 ± 0.004	09-27-11	289	0.025 ± 0.003
1st Quarter Mean ± s.d.		0.029 ± 0.007	3rd Quarter Mean ± s.d.		0.029 ± 0.009
04-05-11 ^b	279	0.043 ± 0.004	10-04-11	273	0.017 ± 0.004
04-12-11	294	0.017 ± 0.003	10-11-11	297	0.042 ± 0.004
04-19-11	284	0.025 ± 0.003	10-18-11	285	0.030 ± 0.004
04-26-11	278	0.018 ± 0.003	10-25-11	275	0.021 ± 0.003
05-03-11	292	0.018 ± 0.003	11-01-11	287	0.024 ± 0.003
05-10-11	292	0.016 ± 0.003	11-08-11	289	0.034 ± 0.004
05-17-11	285	0.020 ± 0.003	11-15-11	287	0.024 ± 0.003
05-24-11	286	0.015 ± 0.003	11-22-11	287	0.024 ± 0.003
05-31-11	287	0.014 ± 0.003	11-29-11	287	0.018 ± 0.003
06-07-11	286	0.025 ± 0.003	12-06-11	287	0.022 ± 0.003
06-14-11	284	0.027 ± 0.003	12-13-11	294	0.039 ± 0.004
06-21-11	278	0.020 ± 0.003	12-20-11	288	0.041 ± 0.005
06-29-11	337	0.018 ± 0.003	12-28-11	327	0.022 ± 0.003
			01-03-12	235	0.022 ± 0.004
2nd Quarter Mean ± s.d.		0.021 ± 0.008	4th Quarter Mean ± s.d.		0.027 ± 0.009
Cumulative Average					0.027

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

^b Iodine-131 activity detected, refer to Appendix C, "Supplementary Analyses".

Table 8. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-11 (C)

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>
01-04-11	287	0.032 ± 0.004	07-06-11	283	0.025 ± 0.004
01-11-11	286	0.041 ± 0.004	07-12-11	243	0.029 ± 0.004
01-18-11	286	0.025 ± 0.004	07-19-11	284	0.027 ± 0.004
01-25-11	275	0.033 ± 0.004	07-26-11	283	0.033 ± 0.004
01-31-11	245	0.036 ± 0.004	08-02-11	265	0.035 ± 0.004
02-08-11	323	0.025 ± 0.003	08-09-11	274	0.037 ± 0.004
02-15-11	284	0.027 ± 0.003	08-16-11	284	0.020 ± 0.003
02-22-11	284	0.018 ± 0.003	08-23-11	284	0.038 ± 0.004
03-01-11	284	0.036 ± 0.004	08-30-11	284	0.024 ± 0.003
03-08-11	285	0.023 ± 0.003	09-06-11		NS ^c
03-15-11	282	0.018 ± 0.003	09-13-11	283	0.020 ± 0.003
03-22-11 ^b	284	0.029 ± 0.004	09-20-11	283	0.020 ± 0.003
03-29-11 ^b	283	0.026 ± 0.004	09-27-11	283	0.029 ± 0.004
1st Quarter Mean ± s.d.		0.028 ± 0.007	3rd Quarter Mean ± s.d.		0.028 ± 0.007
04-05-11 ^b	285	0.046 ± 0.004	10-04-11	284	0.019 ± 0.004
04-12-11	284	0.021 ± 0.003	10-11-11	284	0.050 ± 0.005
04-19-11	284	0.028 ± 0.003	10-18-11	283	0.027 ± 0.004
04-26-11	284	0.017 ± 0.003	10-25-11	284	0.018 ± 0.003
05-03-11	284	0.016 ± 0.003	11-01-11	283	0.020 ± 0.003
05-10-11	284	0.017 ± 0.003	11-08-11	304	0.028 ± 0.003
05-17-11	285	0.021 ± 0.003	11-15-11	279	0.026 ± 0.004
05-24-11	284	0.029 ± 0.004	11-22-11	282	0.026 ± 0.004
05-31-11	284	0.012 ± 0.003	11-29-11	282	0.017 ± 0.003
06-07-11	284	0.026 ± 0.004	12-06-11	282	0.022 ± 0.003
06-14-11	284	0.019 ± 0.003	12-13-11	281	0.036 ± 0.004
06-21-11	283	0.019 ± 0.003	12-20-11	282	0.046 ± 0.005
06-29-11	324	0.017 ± 0.003	12-28-11	322	0.023 ± 0.003
			01-03-12	248	0.020 ± 0.004
2nd Quarter Mean ± s.d.		0.022 ± 0.009	4th Quarter Mean ± s.d.		0.027 ± 0.010
Cumulative Average					0.026

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

^b Iodine-131 activity detected, refer to Appendix C, "Supplementary Analyses".

^c No Sample; Pump not running due to open fuse.

Table 9. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-12 (C)

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>
01-04-11	297	0.036 ± 0.004	07-06-11	286	0.025 ± 0.003
01-11-11	295	0.043 ± 0.004	07-12-11	237	0.033 ± 0.004
01-18-11	296	0.029 ± 0.004	07-19-11	280	0.028 ± 0.004
01-25-11	297	0.038 ± 0.004	07-26-11	280	0.035 ± 0.004
01-31-11	257	0.033 ± 0.004	08-02-11	280	0.031 ± 0.004
02-08-11	338	0.025 ± 0.003	08-09-11	278	0.035 ± 0.004
02-15-11	297	0.031 ± 0.003	08-16-11	286	0.023 ± 0.003
02-22-11	296	0.023 ± 0.003	08-23-11	281	0.036 ± 0.004
03-01-11	296	0.023 ± 0.003	08-30-11	284	0.026 ± 0.003
03-08-11	294	0.023 ± 0.003	09-06-11	283	0.050 ± 0.004
03-15-11	296	0.016 ± 0.003	09-13-11	282	0.023 ± 0.003
03-22-11 ^b	297	0.030 ± 0.004	09-20-11	285	0.018 ± 0.003
03-29-11 ^b	293	0.024 ± 0.004	09-27-11	289	0.022 ± 0.003
1st Quarter Mean ± s.d.		0.029 ± 0.007	3rd Quarter Mean ± s.d.		0.030 ± 0.008
04-05-11 ^b	301	0.048 ± 0.004	10-04-11	287	0.022 ± 0.004
04-12-11 ^b	292	0.022 ± 0.003	10-11-11	287	0.047 ± 0.005
04-19-11	297	0.028 ± 0.003	10-18-11	286	0.029 ± 0.004
04-26-11	286	0.018 ± 0.003	10-25-11	286	0.021 ± 0.003
05-03-11	290	0.013 ± 0.003	11-01-11	289	0.026 ± 0.003
05-10-11	283	0.016 ± 0.003	11-08-11	288	0.033 ± 0.004
05-17-11	283	0.020 ± 0.003	11-15-11	285	0.033 ± 0.004
05-24-11	284	0.020 ± 0.003	11-22-11	272	0.025 ± 0.004
05-31-11	284	0.017 ± 0.003	11-29-11	286	0.020 ± 0.003
06-07-11	284	0.030 ± 0.004	12-06-11	288	0.025 ± 0.003
06-14-11	282	0.025 ± 0.003	12-13-11	282	0.042 ± 0.004
06-21-11	284	0.019 ± 0.003	12-20-11	287	0.041 ± 0.005
06-29-11	333	0.016 ± 0.003	12-28-11	327	0.022 ± 0.003
2nd Quarter Mean ± s.d.		0.022 ± 0.009	01-03-12	246	0.027 ± 0.004
			4th Quarter Mean ± s.d.		0.030 ± 0.009
Cumulative Average					0.028

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

^b Iodine-131 activity detected, refer to Appendix C, "Supplementary Analyses".

Table 10. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-27 (C)

Units: pCi/m³

Collection: Continuous, weekly exchange.

Date Collected	Volume (m ³)	Gross Beta	Date Collected	Volume (m ³)	Gross Beta
<u>Required LLD</u>		<u>0.010</u>			<u>0.010</u>
01-04-11	277	0.034 ± 0.004	07-06-11	285	0.024 ± 0.003
01-11-11	291	0.040 ± 0.004	07-12-11	238	0.030 ± 0.004
01-18-11	286	0.026 ± 0.004	07-19-11	286	0.031 ± 0.004
01-25-11	286	0.035 ± 0.004	07-26-11	285	0.033 ± 0.004
01-31-11	247	0.035 ± 0.004	08-02-11	284	0.031 ± 0.004
02-08-11	325	0.024 ± 0.003	08-09-11	292	0.033 ± 0.004
02-15-11	285	0.028 ± 0.003	08-16-11	279	0.025 ± 0.004
02-22-11	286	0.023 ± 0.003	08-23-11	297	0.036 ± 0.004
03-01-11	286	0.026 ± 0.004	08-30-11	286	0.025 ± 0.003
03-08-11	279	0.023 ± 0.003	09-06-11	285	0.047 ± 0.004
03-15-11	284	0.018 ± 0.003	09-13-11	286	0.022 ± 0.003
03-22-11 ^b	286	0.025 ± 0.004	09-20-11	279	0.018 ± 0.003
03-29-11 ^b	285	0.030 ± 0.004	09-27-11	292	0.025 ± 0.003
1st Quarter Mean ± s.d.		0.028 ± 0.006	3rd Quarter Mean ± s.d.		0.029 ± 0.007
04-05-11 ^b	292	0.044 ± 0.004	10-04-11	285	0.016 ± 0.003
04-12-11	280	0.020 ± 0.003	10-11-11	288	0.047 ± 0.005
04-19-11	291	0.028 ± 0.003	10-18-11	286	0.027 ± 0.004
04-26-11	287	0.018 ± 0.003	10-25-11	279	0.022 ± 0.003
05-03-11	286	0.016 ± 0.003	11-01-11	292	0.023 ± 0.003
05-10-11	285	0.016 ± 0.003	11-08-11	286	0.030 ± 0.004
05-17-11	281	0.020 ± 0.003	11-15-11	282	0.030 ± 0.004
05-24-11	286	0.015 ± 0.003	11-22-11	286	0.027 ± 0.004
05-31-11	286	0.015 ± 0.003	11-29-11	288	0.022 ± 0.003
06-07-11	286	0.027 ± 0.004	12-06-11	285	0.022 ± 0.003
06-14-11	285	0.025 ± 0.003	12-13-11	280	0.033 ± 0.004
06-21-11	290	0.019 ± 0.003	12-20-11	287	0.046 ± 0.005
06-29-11	329	0.016 ± 0.003	12-28-11	332	0.022 ± 0.003
.	.	.	01-03-12	248	0.024 ± 0.004
2nd Quarter Mean ± s.d.		0.021 ± 0.008	4th Quarter Mean ± s.d.		0.028 ± 0.009
Cumulative Average					0.027

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

^b Iodine-131 activity detected, refer to Appendix C, "Supplementary Analyses".

Table 11-1. Airborne particulate data, gross beta analyses, monthly averages, minima and maxima.

January				April			
Location	Average	Minima	Maxima	Location	Average	Minima	Maxima
T-9	0.036	0.027	0.045	T-9	0.024	0.017	0.043
T-11	0.033	0.025	0.041	T-11	0.026	0.016	0.046
T-12	0.036	0.029	0.043	T-12	0.026	0.013	0.048
T-27	0.034	0.026	0.040	T-27	0.025	0.016	0.044
Controls	0.035	0.025	0.045	Controls	0.025	0.013	0.048
T-1	0.033	0.027	0.041	T-1	0.024	0.015	0.043
T-2	0.035	0.028	0.043	T-2	0.024	0.015	0.045
T-3	0.033	0.025	0.038	T-3	0.028	0.017	0.040
T-4	0.036	0.029	0.040	T-4	0.028	0.019	0.046
T-7	0.039	0.025	0.049	T-7	0.026	0.015	0.049
T-8	0.036	0.025	0.043	T-8	0.026	0.014	0.041
Indicators	0.035	0.025	0.049	Indicators	0.026	0.014	0.049

February				May			
Location	Average	Minima	Maxima	Location	Average	Minima	Maxima
T-9	0.026	0.024	0.027	T-9	0.016	0.014	0.020
T-11	0.027	0.018	0.036	T-11	0.020	0.012	0.029
T-12	0.026	0.023	0.031	T-12	0.018	0.016	0.020
T-27	0.025	0.023	0.028	T-27	0.017	0.015	0.020
Controls	0.026	0.018	0.036	Controls	0.018	0.012	0.029
T-1	0.027	0.024	0.030	T-1	0.014	0.011	0.017
T-2	0.020	0.011	0.024	T-2	0.017	0.015	0.021
T-3	0.025	0.023	0.028	T-3	0.015	0.013	0.019
T-4	0.026	0.022	0.027	T-4	0.016	0.013	0.018
T-7	0.025	0.021	0.027	T-7	0.016	0.014	0.019
T-8	0.023	0.016	0.028	T-8	0.014	0.011	0.018
Indicators	0.024	0.011	0.030	Indicators	0.015	0.011	0.021

March				June			
Location	Average	Minima	Maxima	Location	Average	Minima	Maxima
T-9	0.024	0.020	0.028	T-9	0.023	0.018	0.027
T-11	0.024	0.018	0.029	T-11	0.020	0.017	0.026
T-12	0.023	0.016	0.030	T-12	0.023	0.016	0.030
T-27	0.024	0.018	0.030	T-27	0.022	0.016	0.027
Controls	0.024	0.016	0.030	Controls	0.022	0.016	0.030
T-1	0.024	0.019	0.031	T-1	0.020	0.015	0.028
T-2	0.026	0.021	0.033	T-2	0.019	0.015	0.025
T-3	0.024	0.016	0.029	T-3	0.020	0.015	0.026
T-4	0.025	0.018	0.029	T-4	0.020	0.015	0.026
T-7	0.024	0.020	0.028	T-7	0.021	0.015	0.029
T-8	0.024	0.017	0.030	T-8	0.021	0.017	0.026
Indicators	0.025	0.016	0.033	Indicators	0.020	0.015	0.029

Note: Unless otherwise specified, samples collected on the first, second or third day of the month are grouped with data of the previous month.

Table 11-1. Airborne particulate data, gross beta analyses, monthly averages, minima and maxima.

July				October			
Location	Average	Minima	Maxima	Location	Average	Minima	Maxima
T-9	0.029	0.025	0.036	T-9	0.027	0.017	0.042
T-11	0.030	0.025	0.035	T-11	0.027	0.018	0.050
T-12	0.030	0.025	0.035	T-12	0.029	0.021	0.047
T-27	0.030	0.024	0.033	T-27	0.027	0.016	0.047
Controls	0.030	0.024	0.036	Controls	0.028	0.016	0.050
T-1	0.030	0.027	0.034	T-1	0.026	0.014	0.043
T-2	0.029	0.023	0.046	T-2	0.028	0.016	0.048
T-3	0.029	0.023	0.041	T-3	0.025	0.016	0.040
T-4	0.028	0.025	0.031	T-4	0.027	0.017	0.049
T-7	0.028	0.022	0.032	T-7	0.027	0.015	0.047
T-8	0.029	0.024	0.032	T-8	0.028	0.017	0.046
Indicators	0.029	0.022	0.046	Indicators	0.027	0.014	0.049

August				November			
Location	Average	Minima	Maxima	Location	Average	Minima	Maxima
T-9	0.029	0.021	0.036	T-9	0.025	0.018	0.034
T-11	0.030	0.020	0.038	T-11	0.024	0.017	0.028
T-12	0.030	0.023	0.036	T-12	0.028	0.020	0.033
T-27	0.030	0.025	0.036	T-27	0.027	0.022	0.030
Controls	0.030	0.020	0.038	Controls	0.026	0.017	0.034
T-1	0.028	0.021	0.036	T-1	0.026	0.017	0.031
T-2	0.026	0.019	0.032	T-2	0.026	0.021	0.032
T-3	0.028	0.022	0.033	T-3	0.025	0.019	0.029
T-4	0.029	0.023	0.037	T-4	0.026	0.019	0.030
T-7	0.029	0.024	0.034	T-7	0.027	0.016	0.034
T-8	0.029	0.022	0.035	T-8	0.026	0.019	0.029
Indicators	0.028	0.019	0.037	Indicators	0.026	0.016	0.034

September				December			
Location	Average	Minima	Maxima	Location	Average	Minima	Maxima
T-9	0.030	0.022	0.051	T-9	0.029	0.022	0.041
T-11	0.023	0.020	0.029	T-11	0.029	0.020	0.046
T-12	0.028	0.018	0.050	T-12	0.031	0.022	0.042
T-27	0.028	0.018	0.047	T-27	0.029	0.022	0.046
Controls	0.027	0.018	0.051	Controls	0.030	0.020	0.046
T-1	0.026	0.016	0.047	T-1	0.025	0.015	0.035
T-2	0.027	0.016	0.046	T-2	0.028	0.019	0.038
T-3	0.027	0.018	0.045	T-3	0.027	0.020	0.037
T-4	0.028	0.017	0.048	T-4	0.032	0.022	0.045
T-7	0.029	0.018	0.050	T-7	0.028	0.019	0.042
T-8	0.029	0.020	0.050	T-8	0.028	0.019	0.042
Indicators	0.028	0.016	0.050	Indicators	0.028	0.015	0.045

Note: Unless otherwise specified, samples collected on the first, second or third day of the month are grouped with data of the previous month.

Table 12. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.

Collection: Quarterly Composite

Units: pCi/m³

Location		T-1			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Lab Code	TAP- 1819	TAP- 4811	TAP- 7010	TAP- 9153	
Volume (m ³)	3932	3878	3673	3966	
Sr-89	< 0.0004	< 0.0005	< 0.0008	< 0.0004	
Sr-90	< 0.0003	< 0.0004	< 0.0004	< 0.0003	
Be-7	0.066 ± 0.012	0.072 ± 0.015	0.078 ± 0.017	0.074 ± 0.013	
K-40	< 0.023	< 0.021	< 0.023	< 0.027	
Nb-95	< 0.0006	< 0.0013	< 0.0006	< 0.0009	
Zr-95	< 0.0010	< 0.0008	< 0.0007	< 0.0014	
Ru-103	< 0.0008	< 0.0011	< 0.0009	< 0.0007	
Ru-106	< 0.0044	< 0.0075	< 0.0046	< 0.0034	
Cs-134	< 0.0005	< 0.0011	< 0.0010	< 0.0007	
Cs-137	< 0.0005	< 0.0011	< 0.0010	< 0.0007	
Ce-141	< 0.0013	< 0.0012	< 0.0020	< 0.0009	
Ce-144	< 0.0041	< 0.0044	< 0.0038	< 0.0042	

Location		T-2			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Lab Code	TAP- 1820	TAP- 4812	TAP- 7011	TAP- 9154	
Volume (m ³)	3708	3759	3679	4004	
Sr-89	< 0.0005	< 0.0005	< 0.0006	< 0.0009	
Sr-90	< 0.0003	< 0.0003	< 0.0003	< 0.0006	
Be-7	0.073 ± 0.014	0.076 ± 0.015	0.082 ± 0.016	0.066 ± 0.014	
K-40	< 0.024	< 0.019	< 0.023	< 0.022	
Nb-95	< 0.0005	< 0.0014	< 0.0004	< 0.0005	
Zr-95	< 0.0011	< 0.0017	< 0.0007	< 0.0011	
Ru-103	< 0.0009	< 0.0007	< 0.0009	< 0.0006	
Ru-106	< 0.0044	< 0.0070	< 0.0028	< 0.0046	
Cs-134	< 0.0006	< 0.0008	< 0.0007	< 0.0008	
Cs-137	< 0.0004	< 0.0008	< 0.0006	< 0.0005	
Ce-141	< 0.0012	< 0.0014	< 0.0018	< 0.0008	
Ce-144	< 0.0040	< 0.0051	< 0.0044	< 0.0044	

Table 12. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.
Collection: Quarterly Composite
Units: pCi/m³

Location T-3				
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code	TAP- 1821	TAP- 4813	TAP- 7012	TAP- 9156
Volume (m ³)	3715	3696	3683	4072
Sr-89	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Sr-90	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Be-7	0.062 ± 0.013	0.075 ± 0.013	0.076 ± 0.015	0.059 ± 0.015
K-40	< 0.022	< 0.015	< 0.024	< 0.018
Nb-95	< 0.0011	< 0.0009	< 0.0009	< 0.0009
Zr-95	< 0.0013	< 0.0011	< 0.0022	< 0.0010
Ru-103	< 0.0012	< 0.0009	< 0.0013	< 0.0007
Ru-106	< 0.0078	< 0.0072	< 0.0089	< 0.0065
Cs-134	< 0.0008	< 0.0007	< 0.0007	< 0.0009
Cs-137	< 0.0006	< 0.0009	< 0.0009	< 0.0009
Ce-141	< 0.0014	< 0.0009	< 0.0013	< 0.0016
Ce-144	< 0.0034	< 0.0024	< 0.0044	< 0.0030

Location T-4				
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code	TAP- 1822	TAP- 4814	TAP- 7013	TAP- 9157
Volume (m ³)	3744	3797	3570	3882
Sr-89	< 0.0004	< 0.0005	< 0.0005	< 0.0004
Sr-90	< 0.0003	< 0.0004	< 0.0003	< 0.0003
Be-7	0.078 ± 0.014	0.082 ± 0.017	0.088 ± 0.017	0.067 ± 0.012
K-40	< 0.022	< 0.021	< 0.020	< 0.021
Nb-95	< 0.0007	< 0.0011	< 0.0010	< 0.0010
Zr-95	< 0.0009	< 0.0020	< 0.0016	< 0.0018
Ru-103	< 0.0011	< 0.0011	< 0.0009	< 0.0011
Ru-106	< 0.0076	< 0.0051	< 0.0046	< 0.0046
Cs-134	< 0.0008	< 0.0008	< 0.0010	< 0.0006
Cs-137	< 0.0011	< 0.0009	< 0.0008	< 0.0005
Ce-141	< 0.0013	< 0.0020	< 0.0013	< 0.0011
Ce-144	< 0.0053	< 0.0049	< 0.0034	< 0.0040

Table 12. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.
Collection: Quarterly Composite
Units: pCi/m³

Location		T-7			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Lab Code	TAP- 1823	TAP- 4815	TAP- 7014	TAP- 9158	
Volume (m ³)	3701	3731	3657	4014	
Sr-89	< 0.0004	< 0.0004	< 0.0011	< 0.0005	
Sr-90	< 0.0003	< 0.0003	< 0.0008	< 0.0003	
Be-7	0.090 ± 0.016	0.076 ± 0.015	0.090 ± 0.016	0.059 ± 0.011	
K-40	< 0.024	< 0.021	< 0.023	< 0.022	
Nb-95	< 0.0006	< 0.0013	< 0.0009	< 0.0007	
Zr-95	< 0.0020	< 0.0013	< 0.0016	< 0.0012	
Ru-103	< 0.0007	< 0.0009	< 0.0011	< 0.0009	
Ru-106	< 0.0088	< 0.0069	< 0.0083	< 0.0066	
Cs-134	< 0.0007	< 0.0008	< 0.0011	< 0.0007	
Cs-137	< 0.0006	< 0.0009	< 0.0008	< 0.0007	
Ce-141	< 0.0011	< 0.0017	< 0.0015	< 0.0016	
Ce-144	< 0.0026	< 0.0043	< 0.0059	< 0.0043	

Location		T-8			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Lab Code	TAP- 1824	TAP- 4816	TAP- 7016	TAP- 9159	
Volume (m ³)	3720	3800	3606	3985	
Sr-89	< 0.0004	< 0.0005	< 0.0006	< 0.0005	
Sr-90	< 0.0003	< 0.0004	< 0.0004	< 0.0003	
Be-7	0.079 ± 0.014	0.072 ± 0.013	0.089 ± 0.016	0.073 ± 0.012	
K-40	< 0.020	0.016 ± 0.009	< 0.023	< 0.023	
Nb-95	< 0.0009	< 0.0007	< 0.0011	< 0.0004	
Zr-95	< 0.0011	< 0.0009	< 0.0011	< 0.0018	
Ru-103	< 0.0006	< 0.0008	< 0.0014	< 0.0011	
Ru-106	< 0.0071	< 0.0050	< 0.0053	< 0.0060	
Cs-134	< 0.0006	0.0010 ± 0.0006 ^a	< 0.0007	< 0.0005	
Cs-137	< 0.0009	0.0012 ± 0.0007 ^a	< 0.0007	< 0.0007	
Ce-141	< 0.0014	< 0.0012	< 0.0019	< 0.0010	
Ce-144	< 0.0031	< 0.0037	< 0.0050	< 0.0036	

^a Activity observed in second quarter air samples most likely attributable to Fukushima Daiichi accident.

Table 12. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.
Collection: Quarterly Composite
Units: pCi/m³

Location		T-9 (C)			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Lab Code	TAP- 1825	TAP- 4817	TAP- 7017	TAP- 9160	
Volume (m ³)	3720	3762	3675	3998	
Sr-89	< 0.0005	< 0.0006	< 0.0006	< 0.0004	
Sr-90	< 0.0003	< 0.0004	< 0.0004	< 0.0003	
Be-7	0.069 ± 0.016	0.088 ± 0.017	0.091 ± 0.018	0.066 ± 0.013	
K-40	< 0.023	< 0.024	< 0.023	< 0.020	
Nb-95	< 0.0006	< 0.0012	< 0.0004	< 0.0010	
Zr-95	< 0.0009	< 0.0019	< 0.0014	< 0.0009	
Ru-103	< 0.0011	< 0.0008	< 0.0009	< 0.0010	
Ru-106	< 0.0085	< 0.0060	< 0.0076	< 0.0068	
Cs-134	< 0.0009	< 0.0009	< 0.0006	< 0.0007	
Cs-137	< 0.0007	< 0.0010	< 0.0008	< 0.0007	
Ce-141	< 0.0014	< 0.0015	< 0.0017	< 0.0016	
Ce-144	< 0.0060	< 0.0047	< 0.0047	< 0.0042	

Location		T-11 (C)			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Lab Code	TAP- 1826	TAP- 4818	TAP- 7018	TAP- 9161	
Volume (m ³)	3688	3733	3333	3980	
Sr-89	< 0.0004	< 0.0005	< 0.0006	< 0.0004	
Sr-90	< 0.0003	< 0.0004	< 0.0004	< 0.0003	
Be-7	0.065 ± 0.015	0.083 ± 0.015	0.089 ± 0.017	0.062 ± 0.013	
K-40	< 0.025	< 0.019	0.027 ± 0.015	< 0.021	
Nb-95	< 0.0004	< 0.0011	< 0.0012	< 0.0008	
Zr-95	< 0.0016	< 0.0014	< 0.0012	< 0.0010	
Ru-103	< 0.0005	< 0.0011	< 0.0007	< 0.0007	
Ru-106	< 0.0065	< 0.0039	< 0.0039	< 0.0071	
Cs-134	< 0.0006	< 0.0007	< 0.0006	< 0.0008	
Cs-137	< 0.0006	0.0015 ± 0.0009 ^a	< 0.0007	< 0.0008	
Ce-141	< 0.0007	< 0.0017	< 0.0013	< 0.0019	
Ce-144	< 0.0034	< 0.0032	< 0.0033	< 0.0035	

^a Activity observed in second quarter air samples most likely attributable to Fukushima Daiichi accident.

Table 12. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.
Collection: Quarterly Composite
Units: pCi/m³

Location		T-12 (C)			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Lab Code	TAP- 1827	TAP- 4819	TAP- 7019	TAP- 9162	
Volume (m ³)	3849	3783	3631	3996	
Sr-89	< 0.0004	< 0.0009	< 0.0005	< 0.0004	
Sr-90	< 0.0003	< 0.0006	< 0.0003	< 0.0003	
Be-7	0.079 ± 0.012	0.066 ± 0.012	0.088 ± 0.018	0.069 ± 0.014	
K-40	< 0.020	0.019 ± 0.009	< 0.023	< 0.022	
Nb-95	< 0.0012	< 0.0007	< 0.0005	< 0.0004	
Zr-95	< 0.0019	< 0.0012	< 0.0009	< 0.0006	
Ru-103	< 0.0010	< 0.0006	< 0.0011	< 0.0006	
Ru-106	< 0.0068	< 0.0054	< 0.0035	< 0.0064	
Cs-134	< 0.0006	< 0.0008	< 0.0008	< 0.0004	
Cs-137	< 0.0010	< 0.0005	< 0.0006	< 0.0004	
Ce-141	< 0.0013	< 0.0013	< 0.0015	< 0.0014	
Ce-144	< 0.0058	< 0.0037	< 0.0048	< 0.0036	

Location		T-27 (C)			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
Lab Code	TAP- 1828	TAP- 4820	TAP- 7020	TAP- 9163	
Volume (m ³)	3703	3764	3674	4004	
Sr-89	< 0.0004	< 0.0005	< 0.0005	< 0.0004	
Sr-90	< 0.0003	< 0.0004	< 0.0003	< 0.0003	
Be-7	0.089 ± 0.016	0.079 ± 0.015	0.094 ± 0.016	0.081 ± 0.014	
K-40	< 0.022	< 0.022	< 0.023	< 0.018	
Nb-95	< 0.0008	< 0.0021	< 0.0008	< 0.0010	
Zr-95	< 0.0012	< 0.0017	< 0.0009	< 0.0010	
Ru-103	< 0.0011	< 0.0012	< 0.0007	< 0.0009	
Ru-106	< 0.0073	< 0.0083	< 0.0041	< 0.0055	
Cs-134	< 0.0007	< 0.0011	< 0.0006	< 0.0008	
Cs-137	< 0.0010	< 0.0013	< 0.0006	< 0.0006	
Ce-141	< 0.0013	< 0.0012	< 0.0011	< 0.0012	
Ce-144	< 0.0048	< 0.0053	< 0.0041	< 0.0029	

Table 13. Area monitors (TLD), Quarterly.
Units: mR/91 days

<u>Indicator</u>	<u>1st Qtr.</u>	<u>2nd Qtr.</u>	<u>3rd Qtr.</u>	<u>4th Qtr.</u>
T-1	12.3 ± 1.1	12.0 ± 0.6	12.3 ± 0.8	12.5 ± 0.8
T-2	14.2 ± 0.9	14.8 ± 0.7	14.4 ± 0.6	15.4 ± 0.8
T-3	14.5 ± 1.0	14.2 ± 0.9	15.3 ± 1.0	15.5 ± 1.1
T-4	14.2 ± 0.6	14.0 ± 0.8	14.5 ± 0.6	14.9 ± 0.8
T-5	16.7 ± 1.2	16.6 ± 0.6	16.6 ± 0.9	18.3 ± 0.8
T-6	14.8 ± 1.3	12.4 ± 0.6	14.9 ± 1.2	14.2 ± 0.9
T-7	19.9 ± 0.6	20.5 ± 0.7	21.5 ± 0.5	21.8 ± 0.8
T-8	23.8 ± 1.4	25.9 ± 2.1	25.6 ± 1.8	23.7 ± 1.6
T-10	16.5 ± 0.7	17.9 ± 0.8	17.7 ± 0.9	18.8 ± 0.9
T-38	11.8 ± 0.7	13.4 ± 1.1	14.1 ± 0.8	14.2 ± 1.3
T-39	12.8 ± 1.1	13.0 ± 0.7	14.8 ± 1.4	13.8 ± 0.8
T-40	15.8 ± 0.5	16.3 ± 0.7	17.9 ± 0.6	17.0 ± 0.8
T-41	11.5 ± 0.7	13.5 ± 0.7	13.1 ± 0.7	14.3 ± 0.7
T-42	13.6 ± 0.9	13.8 ± 0.9	15.5 ± 1.0	15.1 ± 1.3
T-43	17.5 ± 0.9	18.1 ± 0.7	21.2 ± 1.0	18.7 ± 0.9
T-44	19.9 ± 1.0	20.2 ± 0.9	23.1 ± 1.3	21.3 ± 1.2
T-45	23.4 ± 0.9	24.8 ± 0.7	27.2 ± 0.5	25.4 ± 0.8
T-46	15.4 ± 0.8	15.5 ± 0.8	17.2 ± 1.2	16.8 ± 1.1
T-47	13.2 ± 1.0	10.9 ± 0.7	14.5 ± 1.3	12.5 ± 1.1
T-48	14.3 ± 0.5	14.6 ± 0.8	15.7 ± 0.6	15.6 ± 0.8
T-49	12.7 ± 0.8	11.7 ± 1.2	14.3 ± 0.7	13.0 ± 1.4
T-50	16.0 ± 0.5	19.6 ± 1.5	18.4 ± 0.6	19.9 ± 2.1
T-51	18.9 ± 1.7	23.4 ± 0.9	22.4 ± 2.1	22.3 ± 1.1
T-52	19.2 ± 1.1	21.1 ± 0.6	22.7 ± 1.5	19.5 ± 0.8
T-53	18.0 ± 0.5	18.5 ± 1.8	20.9 ± 0.7	16.3 ± 2.1
T-54	17.9 ± 0.5	20.4 ± 0.8	20.2 ± 0.6	18.2 ± 1.0
T-55	14.7 ± 1.2	17.7 ± 0.9	16.9 ± 1.3	16.9 ± 1.2
T-60	12.2 ± 1.2	12.7 ± 1.2	12.2 ± 0.8	12.8 ± 1.5
T-62	12.7 ± 0.6	12.1 ± 0.9	13.1 ± 0.6	12.8 ± 1.3
T-65	19.8 ± 0.9	19.5 ± 0.9	21.2 ± 1.1	19.8 ± 0.8
T-66	22.7 ± 0.8	22.7 ± 2.1	23.3 ± 0.9	22.0 ± 0.7
T-67	22.3 ± 1.4	21.7 ± 1.2	24.0 ± 1.3	22.1 ± 0.9
T-68	17.1 ± 1.3	17.4 ± 1.4	18.1 ± 0.9	18.5 ± 0.9
T-69	20.9 ± 0.8	19.2 ± 0.8	21.7 ± 0.6	19.7 ± 0.7
T-71	19.2 ± 0.6	18.6 ± 1.1	19.4 ± 0.5	16.6 ± 0.8
T-73	15.4 ± 1.1	14.8 ± 1.1	17.5 ± 1.7	15.4 ± 1.3
T-74	18.2 ± 0.8	18.7 ± 1.4	19.4 ± 0.8	19.4 ± 1.5
T-75	17.8 ± 0.7	17.1 ± 0.9	19.0 ± 0.5	17.3 ± 0.7
T-76	13.6 ± 0.7	13.1 ± 1.0	15.3 ± 0.6	13.3 ± 0.8
T-91	19.9 ± 1.2	21.8 ± 1.8	21.9 ± 1.3	21.8 ± 1.8
T-92	13.9 ± 0.6	15.9 ± 0.8	16.3 ± 0.8	16.3 ± 0.8

Table 13. Area monitors (TLD), Quarterly.
Units: mR/91 days

<u>Indicator</u>	<u>1st Qtr.</u>	<u>2nd Qtr.</u>	<u>3rd Qtr.</u>	<u>4th Qtr.</u>
T-93	17.5 ± 0.9	15.6 ± 0.9	19.9 ± 1.4	16.2 ± 0.8
T-94	18.3 ± 1.1	17.7 ± 1.0	20.4 ± 1.0	18.4 ± 1.3
T-112	15.4 ± 0.8	11.7 ± 0.8	16.6 ± 0.7	12.0 ± 0.8
T-121	19.4 ± 1.7	20.8 ± 1.3	21.1 ± 1.0	20.4 ± 1.2
T-122	17.1 ± 1.2	16.1 ± 0.8	18.6 ± 1.4	18.1 ± 0.7
T-123	19.6 ± 1.2	19.1 ± 0.7	20.4 ± 1.4	19.7 ± 0.7
T-125	18.7 ± 0.9	17.4 ± 0.8	19.0 ± 0.8	17.7 ± 0.8
T-126	18.5 ± 0.8	17.5 ± 1.0	19.2 ± 0.5	17.9 ± 1.0
T-127	20.0 ± 0.8	20.5 ± 1.0	22.5 ± 0.7	20.1 ± 1.1
T-128	20.6 ± 1.9	19.7 ± 0.8	21.5 ± 2.0	19.6 ± 0.7
T-142	13.7 ± 0.9	11.9 ± 0.8	14.2 ± 0.7	12.6 ± 0.7
T-150	14.9 ± 0.9	14.2 ± 1.4	15.5 ± 0.9	14.1 ± 1.5
T-151	18.5 ± 0.9	18.9 ± 0.9	20.0 ± 0.8	18.2 ± 0.9
T-153	18.2 ± 0.7	17.3 ± 0.8	19.6 ± 0.7	16.7 ± 0.8
T-154	15.5 ± 0.9	15.2 ± 0.9	16.1 ± 1.1	14.9 ± 1.0
T-201	13.0 ± 1.1	8.3 ± 0.8	14.0 ± 1.0	14.0 ± 0.3
T-202	13.1 ± 1.1	4.2 ± 0.6	13.6 ± 1.1	14.4 ± 0.6
T-203	13.1 ± 1.1	3.8 ± 0.4	13.6 ± 1.2	14.8 ± 1.2
T-204	11.2 ± 1.1	13.9 ± 1.4	11.8 ± 1.0	11.3 ± 0.6
T-205	10.0 ± 1.1	11.0 ± 0.5	10.2 ± 1.1	13.5 ± 1.2
T-206	9.4 ± 1.2	11.2 ± 0.3	9.4 ± 1.3	11.7 ± 0.4
T-207	9.2 ± 1.5	7.9 ± 0.4	9.0 ± 1.3	8.1 ± 0.5
T-208	9.7 ± 1.6	10.7 ± 0.7	10.0 ± 1.7	11.1 ± 0.4
T-211	12.1 ± 0.9	10.9 ± 0.6	13.1 ± 1.2	11.7 ± 0.6
T-212	11.7 ± 0.6	12.3 ± 0.8	13.0 ± 0.8	13.2 ± 0.8
T-213	18.1 ± 0.6	18.6 ± 0.8	19.7 ± 0.6	18.8 ± 0.9
T-214	18.7 ± 0.7	21.2 ± 0.7	20.8 ± 0.7	20.6 ± 0.8
T-215	18.9 ± 1.2	19.7 ± 1.0	21.3 ± 1.0	19.9 ± 0.9
T-216	17.8 ± 0.7	18.2 ± 1.1	18.7 ± 0.9	18.2 ± 1.4
T-217	19.5 ± 0.9	21.9 ± 1.7	21.9 ± 1.1	22.0 ± 1.7
T-218	19.4 ± 1.0	23.1 ± 0.9	21.2 ± 0.8	21.7 ± 0.9
T-219	15.2 ± 0.8	18.2 ± 1.3	16.2 ± 0.8	17.8 ± 1.6
T-220	17.8 ± 0.9	22.3 ± 1.6	19.9 ± 0.8	21.8 ± 1.8
T-222	11.3 ± 0.8	13.7 ± 0.7	11.8 ± 0.8	13.7 ± 0.7
T-223	12.7 ± 0.7	13.6 ± 0.8	13.5 ± 0.7	13.8 ± 0.9
T-224	15.3 ± 1.1	16.3 ± 0.8	16.7 ± 1.0	15.7 ± 0.6
Mean ± s.d.	16.1 ± 3.4	16.3 ± 4.4	17.5 ± 4.0	16.9 ± 3.5

Table 13. Area monitors (TLD), Quarterly.
Units: mR/91 days

	<u>1st Qtr.</u>	<u>2nd Qtr.</u>	<u>3rd Qtr.</u>	<u>4th Qtr.</u>
<u>Control</u>				
T-9	15.1 ± 0.7	16.3 ± 0.9	16.0 ± 0.6	17.1 ± 1.0
T-11	14.4 ± 0.6	15.0 ± 0.8	15.4 ± 0.7	16.0 ± 1.1
T-12	22.1 ± 0.6	24.6 ± 1.2	24.1 ± 0.6	24.7 ± 1.0
T-24	17.9 ± 1.0	20.2 ± 0.7	19.6 ± 1.1	19.9 ± 0.8
T-27	18.7 ± 1.1	20.9 ± 0.9	22.7 ± 1.2	21.3 ± 1.0
Mean ± s.d.	17.6 ± 3.1	19.4 ± 3.8	19.6 ± 3.9	19.8 ± 3.5
T-95	16.7 ± 1.5	17.8 ± 0.9	18.7 ± 1.4	16.8 ± 0.9
T-100	15.5 ± 1.9	16.5 ± 1.0	16.6 ± 2.0	16.0 ± 1.2
T-111	19.2 ± 1.8	18.8 ± 1.1	21.0 ± 1.9	18.9 ± 0.9
T-124	16.9 ± 1.7	16.3 ± 1.6	17.6 ± 1.5	ND ^a
T-155	13.3 ± 0.8	13.9 ± 1.1	13.6 ± 0.6	13.5 ± 1.3
T-221	14.8 ± 1.4	19.7 ± 1.3	16.3 ± 0.8	19.2 ± 1.2
Mean ± s.d.	16.1 ± 2.0	17.2 ± 2.1	17.3 ± 2.5	16.9 ± 2.3
<u>QC</u>				
T-80	10.2 ± 0.9	10.0 ± 0.8	10.4 ± 0.8	10.2 ± 0.8
T-81	18.3 ± 1.0	17.9 ± 0.8	19.5 ± 1.1	17.7 ± 0.7
T-82	10.5 ± 0.7	10.7 ± 0.8	11.5 ± 0.8	10.7 ± 0.7
T-83	9.8 ± 0.7	11.0 ± 1.3	10.5 ± 0.9	10.8 ± 1.7
T-84	11.5 ± 0.9	11.4 ± 0.8	12.7 ± 1.0	11.3 ± 0.8
T-85	13.6 ± 0.9	13.9 ± 1.0	15.3 ± 1.0	14.2 ± 1.2
T-86	21.7 ± 1.1	21.7 ± 1.1	24.1 ± 1.0	21.8 ± 1.3
T-88	16.6 ± 1.3	19.1 ± 0.9	18.9 ± 1.4	19.1 ± 1.1
T-89	18.1 ± 1.0	19.3 ± 0.8	20.1 ± 1.1	19.8 ± 0.9
T-113	15.0 ± 0.9	15.5 ± 1.0	16.7 ± 1.1	15.6 ± 0.9
T-114	14.7 ± 0.9	13.4 ± 1.0	15.5 ± 0.8	ND ^a
T-115	13.0 ± 1.0	15.7 ± 0.9	14.7 ± 0.9	16.2 ± 0.8
T-116	16.0 ± 0.7	17.2 ± 1.1	16.8 ± 0.8	17.2 ± 1.3
T-117	13.7 ± 1.0	14.1 ± 1.2	14.6 ± 1.1	13.9 ± 1.5
T-118	16.1 ± 1.1	16.5 ± 1.1	17.1 ± 0.9	16.4 ± 1.3
T-119	15.1 ± 0.7	13.8 ± 0.8	15.7 ± 0.8	14.7 ± 0.9
T-120	13.0 ± 1.0	11.1 ± 1.0	13.3 ± 0.7	12.1 ± 0.8
T-200	11.6 ± 1.2	11.9 ± 0.6	12.4 ± 1.0	13.6 ± 0.8
Mean ± s.d.	14.4 ± 3.2	14.7 ± 3.4	15.5 ± 3.6	15.0 ± 3.4
<u>Shield</u>				
T-87	8.2 ± 0.7	8.1 ± 0.8	9.4 ± 0.6	7.9 ± 1.0

^a ND = No Data, TLD lost in the field.

Table 14. Area monitors (TLD), Annual.
 Units: mR/365 days

<u>Indicator</u>	<u>2011</u>
T-1	47.2 ± 1.4
T-2	61.5 ± 1.7
T-3	59.9 ± 2.9
T-4	52.1 ± 1.9
T-5	67.7 ± 2.9
T-6	54.3 ± 1.5
T-7	81.3 ± 6.3
T-8	104.6 ± 2.0
T-10	72.0 ± 3.4
T-38	53.5 ± 2.0
T-39	50.6 ± 1.8
T-40	67.5 ± 2.3
T-41	47.7 ± 1.7
T-42	55.3 ± 2.1
T-43	71.2 ± 2.1
T-44	82.3 ± 3.8
T-45	95.4 ± 4.6
T-46	59.7 ± 3.7
T-47	38.6 ± 1.2
T-48	49.6 ± 1.7
T-49	39.0 ± 1.6
T-50	74.6 ± 2.5
T-51	83.6 ± 2.1
T-52	77.3 ± 1.9
T-53	70.9 ± 1.3
T-54	80.9 ± 3.3
T-55	66.9 ± 5.7
T-60	53.3 ± 2.5
T-62	49.0 ± 3.4
T-65	77.5 ± 4.8
T-66	79.0 ± 2.7
T-67	77.7 ± 3.1
T-68	62.5 ± 1.9
T-69	71.6 ± 1.8
T-71	64.1 ± 1.0
T-73	55.2 ± 1.4
T-74	65.4 ± 2.0
T-75	63.6 ± 4.5
T-76	47.3 ± 1.7
T-91	70.4 ± 1.2
T-92	50.6 ± 1.8

Table 14. Area monitors (TLD), Annual.
Units: mR/365 days

Indicator	2011
T-93	55.1 ± 1.2
T-94	64.5 ± 1.6
T-112	51.9 ± 1.4
T-121	75.7 ± 2.7
T-122	59.8 ± 1.7
T-123	68.7 ± 1.9
T-125	63.2 ± 1.3
T-126	62.1 ± 1.0
T-127	72.4 ± 1.6
T-128	72.5 ± 5.8
T-142	41.9 ± 1.3
T-150	55.0 ± 4.2
T-151	69.6 ± 1.4
T-153	71.0 ± 2.6
T-154	58.5 ± 1.2
T-201	54.2 ± 2.7
T-202	51.5 ± 2.7
T-203	53.3 ± 2.7
T-204	44.1 ± 2.9
T-205	41.1 ± 2.8
T-206	41.9 ± 2.6
T-207	39.3 ± 2.7
T-208	42.0 ± 2.7
T-211	42.1 ± 3.0
T-212	42.8 ± 1.9
T-213	66.6 ± 3.2
T-214	63.3 ± 1.9
T-215	72.1 ± 2.2
T-216	62.2 ± 3.0
T-217	74.1 ± 2.1
T-218	81.1 ± 1.6
T-219	57.8 ± 2.4
T-220	68.7 ± 2.1
T-222	48.7 ± 1.5
T-223	53.2 ± 2.0
T-224	56.0 ± 2.7
Mean ± s.d.	61.7 ± 13.7

^a ND = No Data, TLD lost in the field.

Table 14. Area monitors (TLD), Annual.

Units: mR/365 days

<u>Control</u>	<u>2011</u>
T-9	62.7 ± 1.4
T-11	55.1 ± 1.7
T-12	101.6 ± 2.4
T-24	83.3 ± 3.1
T-27	90.1 ± 2.0
Mean ± s.d.	78.6 ± 19.3
T-95	62.0 ± 2.5
T-100	56.4 ± 2.0
T-111	63.0 ± 3.1
T-124	ND ^a
T-155	48.8 ± 1.8
T-221	63.9 ± 1.9
Mean ± s.d.	58.8 ± 6.3
<u>QC</u>	
T-80	42.8 ± 1.3
T-81	60.1 ± 1.4
T-82	41.4 ± 2.1
T-83	37.7 ± 1.3
T-84	46.5 ± 1.5
T-85	48.5 ± 2.5
T-86	76.4 ± 4.3
T-88	63.2 ± 1.6
T-89	49.1 ± 1.2
T-113	58.8 ± 1.9
T-114	ND ^a
T-115	56.0 ± 1.8
T-116	64.4 ± 1.3
T-117	55.9 ± 1.5
T-118	58.6 ± 1.3
T-119	55.2 ± 2.8
T-120	44.5 ± 1.3
T-200	47.3 ± 3.1
Mean ± s.d.	53.3 ± 9.9
<u>Shield</u>	
T-87	26.8 ± 1.0

^a ND = No Data, TLD lost in the field.

Table 15. Milk, analyses for strontium-89, strontium-90, iodine-131, gamma emitting isotopes, calcium and stable potassium.
Monthly collections, location T-24

Units: pCi/L

Date Collected	01-31-11	02-28-11	03-30-11	05-04-11
Lab Code	TMI- 441	TMI- 829	TMI- 1450	TMI- 2716
I-131	< 0.3	< 0.3	< 0.4	< 0.4
Sr-89	< 0.5	< 0.6	< 0.5	< 0.5
Sr-90	0.6 ± 0.3	0.9 ± 0.4	0.7 ± 0.3	0.5 ± 0.3
K-40	1392 ± 118	1341 ± 110	1410 ± 115	1286 ± 110
Cs-134	< 2.9	< 3.3	< 3.8	< 3.5
Cs-137	< 4.5	< 3.5	< 4.5	< 3.9
Ba-La-140	< 3.3	< 2.2	< 3.2	< 2.1
Ca (g/L)	1.22	1.29	1.26	1.10
Sr-90/g Ca	0.49	0.70	0.56	0.45
K (g/L)	1.70 ± 0.14	1.64 ± 0.13	1.72 ± 0.14	1.57 ± 0.13
Cs-137/g K	< 2.65	< 2.13	< 2.62	< 2.48
Date Collected	05-31-11	06-29-11	08-02-11	08-31-11
Lab Code	TMI- 3352	TMI- 4067	TMI- 5248	TMI- 5849
I-131	< 0.4	< 0.5	< 0.4	< 0.4
Sr-89	< 0.5	< 0.6	< 0.6	< 0.7
Sr-90	0.5 ± 0.3	< 0.5	< 0.6	< 0.6
K-40	1297 ± 114	1314 ± 123	1350 ± 119	1387 ± 115
Cs-134	< 3.6	< 3.4	< 3.1	< 3.0
Cs-137	< 4.4	< 4.5	< 2.9	< 3.7
Ba-La-140	< 1.7	< 2.9	< 2.1	< 1.9
Ca (g/L)	1.29	0.93	1.05	0.97
Sr-90/g Ca	0.39	< 0.54	< 0.57	< 0.62
K (g/L)	1.58 ± 0.14	1.60 ± 0.15	1.65 ± 0.15	1.69 ± 0.14
Cs-137/g K	< 2.78	< 2.81	< 1.76	< 2.19
Date Collected	09-28-11	10-31-11	11-29-11	01-04-12
Lab Code	TMI- 6493	TMI- 7619	TMI- 8393	TMI- 9100
I-131	< 0.2	< 0.3	< 0.2	< 0.3
Sr-89	< 0.6	< 0.6	< 0.5	< 0.6
Sr-90	< 0.5	0.6 ± 0.3	0.6 ± 0.3	0.6 ± 0.3
K-40	1346 ± 117	1388 ± 100	1391 ± 117	1362 ± 115
Cs-134	< 3.3	< 3.2	< 3.7	< 3.0
Cs-137	< 3.4	< 3.1	< 2.1	< 3.3
Ba-La-140	< 3.2	< 3.1	< 2.3	< 1.9
Ca (g/L)	1.13	1.20	1.01	1.22
Sr-90/g Ca	< 0.44	0.50	0.59	0.49
K (g/L)	1.64 ± 0.14	1.69 ± 0.12	1.70 ± 0.14	1.66 ± 0.14
Cs-137/g K	< 2.07	< 1.83	< 1.24	< 1.99

^a Corrected value.

Table 16. Ground water samples, analyses for gross beta, tritium, strontium-89, strontium-90 and gamma-emitting isotopes.

Collection: Quarterly

Units: pCi/L

Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Location		T-27A (C)			
Lab Code	ND	TWW- 3431	TWW- 5981	TWW- 7663	Req. LLD
Date Collected	-	04-19-11	08-24-11	10-25-11	
Gross beta	-	< 1.6	1.7 ± 0.8	3.2 ± 1.3	4.0
H-3	-	< 330	< 330	< 330	330
Sr-89	-	< 1.5	< 0.8	< 0.8	
Sr-90	-	< 0.5	< 0.4	< 0.5	
Mn-54	-	< 1.2	< 2.2	< 2.6	15
Fe-59	-	< 4.5	< 4.1	< 5.7	30
Co-58	-	< 1.2	< 1.8	< 2.4	15
Co-60	-	< 1.0	< 1.6	< 2.0	15
Zn-65	-	< 2.0	< 3.3	< 1.8	30
Zr-Nb-95	-	< 2.1	< 2.6	< 4.3	15
Cs-134	-	< 0.9	< 3.2	< 2.7	15
Cs-137	-	< 1.2	< 3.6	< 2.1	18
Ba-La-140	-	< 23.3	< 6.7	< 3.3	15
Location		T-225 (I)			
Lab Code	ND	ND	TWW- 5983	TWW- 7665	Req. LLD
Date Collected	-	-	08-24-11	10-25-11	
Gross beta	-	-	1.7 ± 0.3	1.3 ± 0.6	4.0
H-3	-	-	< 330	< 330	330
Sr-89	-	-	< 0.9	< 0.8	
Sr-90	-	-	< 0.5	< 0.5	
Mn-54	-	-	< 2.4	< 2.5	15
Fe-59	-	-	< 7.1	< 5.5	30
Co-58	-	-	< 2.7	< 2.4	15
Co-60	-	-	< 1.6	< 2.6	15
Zn-65	-	-	< 1.9	< 3.3	30
Zr-Nb-95	-	-	< 3.1	< 3.1	15
Cs-134	-	-	< 2.4	< 2.0	15
Cs-137	-	-	< 2.0	< 2.5	18
Ba-La-140	-	-	< 3.6	< 3.7	15

ND = No Data, Sample not received.

Table 16. Ground water samples, analyses for gross beta, tritium, strontium-89, strontium-90 and gamma-emitting isotopes.

Collection: Quarterly

Units: pCi/L

Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Location	T-226 (I)				
Lab Code	ND	TWW- 3433	TWW- 5984	TWW- 7666	Req. LLD
Date Collected	-	05-31-11	08-24-11	10-25-11	
Gross beta	-	1.6 ± 0.4	1.3 ± 0.3	1.5 ± 0.7	4.0
H-3	-	< 330	< 330	< 330	330
Sr-89	-	< 0.9	< 0.9	< 0.8	
Sr-90	-	< 0.5	< 0.5	< 0.5	
Mn-54	-	< 1.9	< 2.1	< 1.8	15
Fe-59	-	< 5.2	< 5.6	< 3.0	30
Co-58	-	< 2.3	< 2.3	< 1.6	15
Co-60	-	< 1.9	< 1.7	< 1.1	15
Zn-65	-	< 2.9	< 5.0	< 2.0	30
Zr-Nb-95	-	< 2.0	< 2.7	< 2.5	15
Cs-134	-	< 2.5	< 2.7	< 1.8	15
Cs-137	-	< 3.1	< 3.7	< 2.7	18
Ba-La-140	-	< 1.8	< 5.4	< 1.6	15
Location	T-141 (QC)				
Lab Code	ND	TWW- 3432	TWW- 5982	TWW- 7664	Req. LLD
Date Collected	-	04-19-11	08-24-11	10-25-11	
Gross beta	-	< 1.6	1.1 ± 0.3	1.8 ± 1.3	4.0
H-3	-	< 330	< 330	< 330	330
Sr-89	-	< 1.6	< 0.9	< 0.7	
Sr-90	-	< 0.5	< 0.5	< 0.5	
Mn-54	-	< 1.1	< 2.0	< 2.5	15
Fe-59	-	< 3.7	< 2.1	< 5.8	30
Co-58	-	< 1.7	< 1.5	< 2.0	15
Co-60	-	< 0.8	< 2.1	< 1.7	15
Zn-65	-	< 2.2	< 3.4	< 2.9	30
Zr-Nb-95	-	< 2.1	< 3.8	< 3.5	15
Cs-134	-	< 0.8	< 2.4	< 1.9	15
Cs-137	-	< 1.2	< 2.7	< 1.8	18
Ba-La-140	-	< 22.7	< 5.9	< 3.4	15

ND = No Data, Sample not received.

Table 18. Wild meat, analyses for gamma-emitting isotopes.
 Collection: Annually
 Units: pCi/g wet

Location	T-31(I)	T-210 (C)
Lab Code	TWL- 9105	ND
Date Collected	12-08-11	-
Sample Type	Muskrat	
Be-7	< 0.062	-
K-40	2.72 ± 0.197	-
Nb-95	< 0.0068	-
Zr-95	< 0.0096	-
Ru-103	< 0.0052	-
Ru-106	< 0.0435	-
Cs-134	< 0.0036	-
Cs-137	< 0.0056	-
Ce-141	< 0.0179	-
Ce-144	< 0.0279	-

ND = No Data, Sample not received.

Table 19. Green leafy vegetables, analyses for strontium-89, strontium-90, iodine-131 and other gamma-emitting isotopes.

Collection: Monthly, in season

Units: pCi/g wet

Location				T-227 (I)			
Lab Code	TVE- 5750	TVE- 6496	TVE- 7244				
Date Collected	08-24-11	09-27-11	10-18-11				
Sample Type	Cabbage	Cabbage	Cabbage				
Sr-89	< 0.002	< 0.002	< 0.004				
Sr-90	< 0.002	< 0.001	< 0.002				
I-131	< 0.009	< 0.013	< 0.006				
K-40	2.95 ± 0.22	2.21 ± 0.21	1.71 ± 0.12				
Nb-95	< 0.004	< 0.006	< 0.005				
Zr-95	< 0.011	< 0.010	< 0.007				
Cs-134	< 0.006	< 0.005	< 0.004				
Cs-137	< 0.008	< 0.006	< 0.004				
Ce-141	< 0.011	< 0.011	< 0.008				
Ce-144	< 0.059	< 0.048	< 0.025				

Location				T-19 (I)			
Lab Code	TVE- 5748	TVE- 6494	TVE- 7242				
Date Collected	08-24-11	09-27-11	10-18-11				
Sample Type	Cabbage	Cabbage	Cabbage				
Sr-89	< 0.002	< 0.003	< 0.003				
Sr-90	< 0.002	< 0.002	< 0.001				
I-131	< 0.007	< 0.014	< 0.014				
K-40	1.98 ± 0.06	1.97 ± 0.20	2.12 ± 0.19				
Nb-95	< 0.003	< 0.005	< 0.005				
Zr-95	< 0.003	< 0.012	< 0.010				
Cs-134	< 0.002	< 0.007	< 0.007				
Cs-137	< 0.002	< 0.004	< 0.005				
Ce-141	< 0.004	< 0.011	< 0.016				
Ce-144	< 0.018	< 0.054	< 0.049				

Location				T-37 (C)			
Lab Code	TVE- 5749	TVE- 6495	TVE- 7243				
Date Collected	08-23-11	09-27-11	10-18-11				
Sample Type	Cabbage	Cabbage	Cabbage				
Sr-89	< 0.002	< 0.003	< 0.004				
Sr-90	< 0.001	< 0.002	< 0.002				
I-131	< 0.007	< 0.014	< 0.012				
K-40	2.02 ± 0.18	2.10 ± 0.19	3.10 ± 0.25				
Nb-95	< 0.005	< 0.005	< 0.009				
Zr-95	< 0.007	< 0.009	< 0.010				
Cs-134	< 0.007	< 0.007	< 0.006				
Cs-137	< 0.006	< 0.005	< 0.007				
Ce-141	< 0.014	< 0.013	< 0.009				
Ce-144	< 0.048	< 0.038	< 0.053				

Table 20. Fruit, analyses for strontium-89, strontium-90, iodine-131 and other gamma-emitting isotopes.
 Collection: Annual
 Units: pCi/g wet

Location	T-8 (I)	T-25 (I)
Lab Code	TVE- 6497	TVE- 6498
Date Collected	09-27-11	09-27-11
Sample Type	Apples	Apples
Sr-89	< 0.002	< 0.002
Sr-90	< 0.001	< 0.002
I-131	< 0.010	< 0.009
K-40	1.03 ± 0.13	1.60 ± 0.16
Nb-95	< 0.006	< 0.004
Zr-95	< 0.006	< 0.010
Cs-134	< 0.004	< 0.005
Cs-137	< 0.008	< 0.007
Ce-141	< 0.011	< 0.013
Ce-144	< 0.042	< 0.044

Location	T-209 (C)
Lab Code	TVE- 6499
Date Collected	09-27-11
Sample Type	Apples
Sr-89	< 0.003
Sr-90	< 0.002
I-131	< 0.008
K-40	1.28 ± 0.12
Nb-95	< 0.006
Zr-95	< 0.007
Cs-134	< 0.003
Cs-137	< 0.006
Ce-141	< 0.008
Ce-144	< 0.029

Table 21. Animal - wildlife feed, analyses for gamma-emitting isotopes.
 Collection: Annual
 Units: pCi/g wet

Indicators		
Location	T-31	T-198
Lab Code	TCF- 7259	TCF- 7261
Date Collected	10-18-11	10-18-11
Sample Type	Cattails	Cattails
Be-7	1.09 ± 0.36	0.96 ± 0.21
K-40	2.45 ± 0.59	2.00 ± 0.35
Nb-95	< 0.016	< 0.020
Zr-95	< 0.052	< 0.025
Ru-103	< 0.025	< 0.014
Ru-106	< 0.172	< 0.077
Cs-134	< 0.020	< 0.017
Cs-137	< 0.028	< 0.021
Ce-141	< 0.047	< 0.035
Ce-144	< 0.205	< 0.162
Control		
Location	T-32	
Lab Code	TCF- 7260	
Date Collected	10-18-11	
Sample Type	Cattails	
Be-7	0.66 ± 0.22	
K-40	0.91 ± 0.31	
Nb-95	< 0.015	
Zr-95	< 0.024	
Ru-103	< 0.025	
Ru-106	< 0.130	
Cs-134	< 0.017	
Cs-137	< 0.022	
Ce-141	< 0.042	
Ce-144	< 0.211	

Table 22. Soil samples, analyses for gamma-emitting isotopes.

Collection: Annual

Units: pCi/g dry

Location	T-1	T-2	T-3	T-4
Lab Code	TSO- 2954	TSO- 2955	TSO- 2956	TSO- 2957
Date Collected	04-27-11	04-27-11	04-27-11	04-27-11
Be-7	0.95 ± 0.22	< 0.21	0.58 ± 0.28	< 0.32
K-40	7.74 ± 0.57	12.11 ± 0.74	9.45 ± 0.70	19.42 ± 0.94
Mn-54	< 0.018	< 0.026	< 0.026	< 0.036
Nb-95	< 0.019	< 0.023	< 0.017	< 0.030
Zr-95	< 0.020	< 0.036	< 0.021	< 0.025
Ru-103	< 0.023	< 0.019	< 0.025	< 0.023
Ru-106	< 0.127	< 0.139	< 0.169	< 0.176
Cs-134	< 0.016	< 0.015	< 0.016	< 0.018
Cs-137	0.059 ± 0.018	0.24 ± 0.044	< 0.029	0.106 ± 0.039
Ce-141	< 0.041	< 0.052	< 0.058	< 0.072
Ce-144	< 0.106	< 0.113	< 0.110	< 0.105

Location	T-7	T-8
Lab Code	TSO- 2958	TSO- 2959
Date Collected	04-27-11	04-27-11
Be-7	0.37 ± 0.21	0.84 ± 0.22
K-40	10.47 ± 0.61	23.52 ± 1.05
Mn-54	< 0.024	< 0.026
Nb-95	< 0.019	< 0.034
Zr-95	< 0.032	< 0.022
Ru-103	< 0.012	< 0.028
Ru-106	< 0.074	< 0.147
Cs-134	< 0.014	< 0.022
Cs-137	< 0.014	0.21 ± 0.037
Ce-141	< 0.041	< 0.036
Ce-144	< 0.097	< 0.144

Location	T-9	T-11	T-12	T-27
Lab Code	TSO- 2960	TSO- 2962	TSO- 2963	TSO- 2964
Date Collected	04-27-11	04-27-11	04-27-11	04-27-11
Be-7	< 0.36	< 0.24	0.55 ± 0.28	< 0.33
K-40	22.90 ± 0.96	14.70 ± 0.76	12.84 ± 0.71	23.98 ± 1.05
Mn-54	< 0.028	< 0.028	< 0.023	< 0.032
Nb-95	< 0.036	< 0.032	< 0.014	< 0.053
Zr-95	< 0.048	< 0.042	< 0.040	< 0.047
Ru-103	< 0.026	< 0.025	< 0.030	< 0.029
Ru-106	< 0.127	< 0.093	< 0.180	< 0.141
Cs-134	< 0.023	< 0.016	< 0.020	< 0.019
Cs-137	< 0.029	0.048 ± 0.022	0.109 ± 0.028	0.169 ± 0.044
Ce-141	< 0.061	< 0.047	< 0.057	< 0.076
Ce-144	< 0.141	< 0.132	< 0.076	< 0.094

Table 23. Treated surface water samples, analyses for gross beta.
 Collection: Monthly composites of weekly grab samples
 Units: pCi/L

T-11 (C)			T-12 (C)		
Lab Code	Date Collected	Gross Beta	Lab Code	Date Collected	Gross Beta
TSWT- 442	01-31-11	1.8 ± 0.8	TSWT- 443	01-31-11	1.7 ± 0.7
TSWT- 844	03-01-11	0.9 ± 0.4	TSWT- 845	03-01-11	1.0 ± 0.4
TSWT- 1454	03-29-11	2.0 ± 0.8	TSWT- 1456	03-29-11	2.7 ± 0.8
TSWT- 2943	04-26-11	2.9 ± 0.9	TSWT- 2944	04-26-11	2.0 ± 0.7
TSWT- 3427	05-31-11	2.1 ± 0.6	TSWT- 3428	05-31-11	1.5 ± 0.6
TSWT- 4353	06-29-11	2.6 ± 1.1	TSWT- 4354	06-29-11	2.5 ± 0.9
TSWT- 5324	08-02-11	1.1 ± 0.5	TSWT- 5325	08-02-11	< 0.8
TSWT- 5882	08-30-11	1.7 ± 0.6	TSWT- 5883	08-30-11	1.3 ± 0.6
TSWT- 6586	09-27-11	2.8 ± 0.7	TSWT- 6587	09-27-11	2.4 ± 0.8
TSWT- 7651	11-01-11	1.2 ± 0.5	TSWT- 7652	11-01-11	1.5 ± 0.6
TSWT- 8394	11-29-11	1.6 ± 0.6	TSWT- 8395	11-29-11	1.2 ± 0.5
TSWT- 9080	01-03-12	3.4 ± 0.9	TSWT- 9081	01-03-12	2.6 ± 0.7

T-22			T-143 (QC)		
Lab Code	Date Collected	Gross Beta	Lab Code	Date Collected	Gross Beta
TSWT- 444	01-31-11	2.8 ± 0.8	TSWT- 445	01-31-11	2.2 ± 0.8
TSWT- 846	03-01-11	1.1 ± 0.4	TSWT- 848	03-01-11	0.9 ± 0.4
TSWT- 1457	03-28-11	3.1 ± 0.8	TSWT- 1458	03-29-11	1.9 ± 0.8
TSWT- 2945	04-26-11	2.1 ± 0.8	TSWT- 2946	04-26-11	2.4 ± 0.8
TSWT- 3429	05-31-11	2.1 ± 0.6	TSWT- 3430	05-31-11	1.7 ± 0.6
TSWT- 4355	06-29-11	2.6 ± 1.0	TSWT- 4356	06-29-11	2.7 ± 0.9
TSWT- 5326	08-02-11	1.4 ± 0.6	TSWT- 5327	08-02-11	1.0 ± 0.5
TSWT- 5884	08-30-11	< 0.9	TSWT- 5885	08-30-11	1.2 ± 0.5
TSWT- 6588	09-27-11	2.7 ± 0.7	TSWT- 6589	09-27-11	1.9 ± 0.7
TSWT- 7653	11-01-11	1.4 ± 0.6	TSWT- 7654	11-01-11	1.1 ± 0.6
TSWT- 8396	11-29-11	2.0 ± 0.6	TSWT- 8397	11-29-11	< 0.8
TSWT- 9082	01-03-12	3.0 ± 0.8	TSWT- 9083	01-03-12	2.7 ± 0.8

Table 24. Treated surface water samples, analyses for tritium, strontium-89, strontium-90 and gamma-emitting isotopes.
 Collection: Quarterly composites of weekly grab samples
 Units: pCi/L

Location					
T-11 (C)					
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Lab Code	TSWT- 1574	TSWT- 4511	TSWT- 6651	TSWT- 9097	<u>Req. LLD</u>
H-3	< 330	< 330	< 330	< 330	330
Sr-89	< 0.6	< 0.8	< 0.9	< 0.7	
Sr-90	0.4 ± 0.3	< 0.5	< 0.5	< 0.5	
Mn-54	< 2.5	< 2.9	< 2.6	< 3.4	15
Fe-59	< 3.8	< 4.9	< 2.0	< 5.2	30
Co-58	< 1.7	< 1.9	< 2.0	< 2.3	15
Co-60	< 1.9	< 1.6	< 2.2	< 2.5	15
Zn-65	< 4.3	< 2.9	< 3.7	< 2.6	30
Zr-Nb-95	< 3.4	< 3.4	< 3.1	< 4.3	15
Cs-134	< 3.4	< 2.1	< 2.7	< 2.4	10
Cs-137	< 1.6	< 2.1	< 2.6	< 4.0	18
Ba-La-140	< 2.1	< 6.8	< 3.9	< 3.0	15

Location					
T-12 (C)					
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Lab Code	TSWT- 1575	TSWT- 4512	TSWT- 6652	TSWT- 9098	<u>Req. LLD</u>
H-3	< 330	< 330	< 330	< 330	330
Sr-89	< 0.9	< 0.8	< 1.0	< 0.9	
Sr-90	< 0.6	< 0.5	< 0.5	< 0.7	
Mn-54	< 1.9	< 2.5	< 1.9	< 2.7	15
Fe-59	< 5.4	< 4.4	< 5.6	< 6.6	30
Co-58	< 2.5	< 2.1	< 1.8	< 2.3	15
Co-60	< 2.9	< 1.6	< 1.4	< 2.5	15
Zn-65	< 3.1	< 2.5	< 3.9	< 4.9	30
Zr-Nb-95	< 2.3	< 3.4	< 2.6	< 2.2	15
Cs-134	< 2.3	< 2.6	< 3.4	< 2.1	10
Cs-137	< 2.6	< 1.7	< 2.6	< 3.2	18
Ba-La-140	< 4.6	< 5.6	< 4.1	< 1.9	15

Table 24. Treated surface water samples, analyses for tritium, strontium-89, strontium-90 and gamma-emitting isotopes.
 Collection: Quarterly composites of weekly grab samples.
 Units: pCi/L

Location		T-22				
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.		
Lab Code	TSWT- 1576	TSWT- 4513	TSWT- 6653	TSWT- 9099	<u>Req. LLD</u>	
H-3	< 330	< 330	< 330	< 330	330	
Sr-89	< 0.8	< 0.7	< 0.8	< 0.6		
Sr-90	< 0.5	< 0.4	< 0.5	< 0.4		
Mn-54	< 2.9	< 1.6	< 2.0	< 3.0	15	
Fe-59	< 2.0	< 5.0	< 3.3	< 5.5	30	
Co-58	< 2.4	< 1.5	< 1.9	< 3.1	15	
Co-60	< 1.6	< 2.4	< 1.9	< 2.4	15	
Zn-65	< 3.2	< 3.4	< 5.5	< 6.2	30	
Zr-Nb-95	< 3.4	< 2.2	< 3.1	< 3.6	15	
Cs-134	< 2.3	< 2.5	< 2.3	< 2.9	10	
Cs-137	< 2.0	< 2.6	< 3.3	< 2.5	18	
Ba-La-140	< 4.1	< 3.2	< 4.3	< 4.1	15	

Table 25. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes.

Location: T-3

Collection: Monthly composites of weekly grab samples

Units: pCi/L

Lab Code	TSWU- 446	TSWU- 849	TSWU- 1518	TSWU- 2947	
Date Collected	01-31-11	03-01-11	03-29-11	04-26-11	Req. LLD
Gross beta	1.4 ± 0.4	4.8 ± 0.9	2.4 ± 0.8	2.9 ± 0.7	4.0
H-3	620 ± 119	< 330	< 330	< 330	330
Mn-54	< 2.3	< 2.9	< 2.9	< 2.1	15
Fe-59	< 4.0	< 4.6	< 4.3	< 3.5	30
Co-58	< 2.7	< 3.0	< 2.6	< 2.6	15
Co-60	< 0.9	< 3.4	< 3.7	< 2.0	15
Zn-65	< 4.0	< 3.8	< 4.0	< 2.3	30
Zr-Nb-95	< 2.1	< 2.6	< 2.7	< 3.1	15
Cs-134	< 2.7	< 3.0	< 4.1	< 1.8	10
Cs-137	< 3.6	< 4.0	< 2.8	< 2.7	18
Ba-La-140	< 2.4	< 5.1	< 2.4	< 4.7	15
Lab Code	TSWU- 3420	TSWU- 4357	TSWU- 5328	TSWU- 5887	
Date Collected	05-31-11	06-29-11	08-02-11	08-30-11	Req. LLD
Gross Beta	2.7 ± 0.7	2.8 ± 0.8	2.3 ± 0.8	2.4 ± 0.7	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.2	< 3.5	< 2.8	< 2.4	15
Fe-59	< 6.4	< 7.3	< 4.7	< 5.6	30
Co-58	< 1.7	< 2.7	< 1.8	< 1.1	15
Co-60	< 1.7	< 1.4	< 2.0	< 1.7	15
Zn-65	< 3.9	< 6.1	< 5.0	< 2.8	30
Zr-Nb-95	< 3.8	< 2.8	< 2.8	< 3.0	15
Cs-134	< 1.9	< 3.1	< 2.1	< 2.6	10
Cs-137	< 3.4	< 3.5	< 2.8	< 2.5	18
Ba-La-140	< 2.1	< 4.7	< 9.0	< 2.7	15
Lab Code	TSWU- 6590	TSWU- 7655	TSWU- 8385	TSWU- 9084	
Date Collected	09-27-11	11-01-11	11-29-11	01-03-12	Req. LLD
Gross Beta	3.1 ± 0.5	3.2 ± 0.9	1.3 ± 0.6	4.1 ± 0.8	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 1.6	< 2.0	< 2.9	< 2.3	15
Fe-59	< 5.0	< 3.6	< 4.1	< 3.4	30
Co-58	< 2.0	< 1.2	< 2.8	< 2.4	15
Co-60	< 1.7	< 0.9	< 1.9	< 1.9	15
Zn-65	< 3.9	< 1.9	< 4.1	< 3.7	30
Zr-Nb-95	< 3.0	< 1.9	< 2.2	< 3.5	15
Cs-134	< 2.5	< 2.4	< 2.3	< 2.4	10
Cs-137	< 2.6	< 2.7	< 2.3	< 3.3	18
Ba-La-140	< 2.4	< 3.7	< 1.5	< 2.7	15

Table 25. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes.

Location: T-11 (C)

Collection: Monthly composites of weekly grab samples

Units: pCi/L

Lab Code	TSWU- 449	TSWU- 851	TSWU- 1520	TSWU- 2949	
Date Collected	01-31-11	03-01-11	03-29-11	04-26-11	Req. LLD
Gross beta	1.0 ± 0.4	2.0 ± 0.8	1.3 ± 0.8	2.4 ± 0.7	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 4.1	< 2.6	< 2.1	< 2.0	15
Fe-59	< 7.4	< 6.1	< 5.3	< 3.9	30
Co-58	< 3.2	< 2.9	< 3.1	< 2.5	15
Co-60	< 3.3	< 2.4	< 3.1	< 1.3	15
Zn-65	< 4.4	< 2.9	< 5.0	< 4.0	30
Zr-Nb-95	< 2.1	< 4.2	< 3.3	< 3.2	15
Cs-134	< 3.1	< 2.9	< 3.2	< 1.8	10
Cs-137	< 4.4	< 2.4	< 2.1	< 2.7	18
Ba-La-140	< 2.9	< 2.4	< 2.7	< 7.4	15
Lab Code	TSWU- 3422	TSWU- 4359	TSWU- 5330	TSWU- 5889	
Date Collected	05-31-11	06-29-11	08-02-11	08-30-11	Req. LLD
Gross Beta	1.9 ± 0.6	3.4 ± 0.8	1.8 ± 0.8	< 0.9	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.1	< 2.0	< 2.4	< 3.1	15
Fe-59	< 6.1	< 5.4	< 6.5	< 2.8	30
Co-58	< 1.7	< 2.6	< 1.6	< 2.3	15
Co-60	< 3.0	< 1.8	< 2.4	< 1.9	15
Zn-65	< 4.1	< 4.9	< 2.6	< 4.8	30
Zr-Nb-95	< 2.3	< 4.9	< 4.2	< 2.0	15
Cs-134	< 2.7	< 2.7	< 2.6	< 2.3	10
Cs-137	< 3.4	< 2.8	< 2.1	< 2.5	18
Ba-La-140	< 3.4	< 4.6	< 4.6	< 3.9	15
Lab Code	TSWU- 6592	TSWU- 7657	TSWU- 8387	TSWU- 9086	
Date Collected	09-27-11	11-01-11	11-29-11	01-03-12	Req. LLD
Gross Beta	1.7 ± 0.4	3.1 ± 0.8	1.3 ± 0.6	1.7 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 3.3	< 3.3	< 4.2	< 2.7	15
Fe-59	< 6.6	< 6.6	< 8.6	< 3.3	30
Co-58	< 4.4	< 2.3	< 3.8	< 2.2	15
Co-60	< 2.1	< 2.8	< 4.4	< 1.5	15
Zn-65	< 6.8	< 4.1	< 11.7	< 4.9	30
Zr-Nb-95	< 4.2	< 3.0	< 8.4	< 3.3	15
Cs-134	< 3.8	< 2.4	< 4.1	< 2.3	10
Cs-137	< 4.0	< 3.5	< 5.4	< 3.3	18
Ba-La-140	< 7.2	< 4.8	< 4.8	< 2.1	15

Table 25. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes.
 Location: T-12 (C)
 Collection: Monthly composites of weekly grab samples
 Units: pCi/L

Lab Code	TSWU- 450	TSWU- 852	TSWU- 1521	TSWU- 2950	
Date Collected	01-31-11	03-01-11	03-29-11	04-26-11	Req. LLD
Gross beta	1.0 ± 0.4	2.1 ± 0.7	1.8 ± 0.8	1.7 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.7	< 2.0	< 3.6	< 2.0	15
Fe-59	< 3.2	< 6.9	< 3.1	< 4.5	30
Co-58	< 2.6	< 2.8	< 3.1	< 1.6	15
Co-60	< 1.4	< 2.4	< 2.5	< 1.3	15
Zn-65	< 2.3	< 4.3	< 2.4	< 4.0	30
Zr-Nb-95	< 1.9	< 3.3	< 2.2	< 2.3	15
Cs-134	< 2.5	< 3.0	< 2.7	< 2.0	10
Cs-137	< 3.1	< 3.7	< 4.0	< 2.7	18
Ba-La-140	< 1.7	< 3.8	< 4.1	< 6.9	15
Lab Code	TSWU- 3423	TSWU- 4360	TSWU- 5331	TSWU- 5890	
Date Collected	05-31-11	06-29-11	08-02-11	08-30-11	Req. LLD
Gross Beta	2.1 ± 0.6	3.5 ± 0.7	2.5 ± 0.7	1.6 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 1.7	< 3.2	< 2.6	< 1.6	15
Fe-59	< 4.1	< 2.8	< 4.2	< 4.3	30
Co-58	< 2.1	< 1.8	< 1.4	< 1.9	15
Co-60	< 1.3	< 2.5	< 1.6	< 1.6	15
Zn-65	< 3.9	< 5.4	< 4.1	< 4.6	30
Zr-Nb-95	< 2.6	< 4.0	< 3.9	< 3.1	15
Cs-134	< 2.3	< 3.1	< 2.1	< 2.6	10
Cs-137	< 3.4	< 2.3	< 2.2	< 3.0	18
Ba-La-140	< 4.3	< 5.7	< 7.3	< 2.3	15
Lab Code	TSWU- 6593	TSWU- 7658	TSWU- 8388	TSWU- 9087	
Date Collected	09-27-11	11-01-11	11-29-11	01-03-12	Req. LLD
Gross Beta	1.9 ± 0.4	2.9 ± 0.7	1.7 ± 0.6	2.3 ± 0.7	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.8	< 4.5	< 2.0	< 3.3	15
Fe-59	< 3.3	< 7.3	< 4.1	< 4.1	30
Co-58	< 1.9	< 4.8	< 1.6	< 1.3	15
Co-60	< 1.8	< 5.6	< 2.4	< 2.7	15
Zn-65	< 2.6	< 5.4	< 3.4	< 6.7	30
Zr-Nb-95	< 1.8	< 5.3	< 2.8	< 3.0	15
Cs-134	< 2.3	< 3.4	< 2.0	< 2.5	10
Cs-137	< 2.4	< 5.8	< 3.1	< 3.4	18
Ba-La-140	< 2.0	< 4.4	< 1.8	< 1.6	15

Table 25. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes.

Location: T-22

Collection: Monthly composites of weekly grab samples

Units: pCi/L

Lab Code	TSWU- 452	TSWU- 854	TSWU- 1524	TSWU- 2952	
Date Collected	01-31-11	03-01-11	03-29-11	04-26-11	Req. LLD
Gross beta	2.7 ± 0.8	1.8 ± 0.8	1.6 ± 0.8	1.7 ± 0.6	4.0
H-3	351 ± 109	< 330	< 330	< 330	330
Mn-54	< 2.9	< 1.9	< 2.2	< 1.7	15
Fe-59	< 2.6	< 4.4	< 5.5	< 3.1	30
Co-58	< 1.8	< 3.0	< 2.1	< 2.4	15
Co-60	< 2.5	< 1.4	< 1.8	< 1.6	15
Zn-65	< 3.6	< 2.6	< 2.2	< 2.4	30
Zr-Nb-95	< 3.9	< 2.8	< 3.2	< 2.9	15
Cs-134	< 2.6	< 3.2	< 2.5	< 2.3	10
Cs-137	< 2.8	< 2.4	< 3.4	< 2.1	18
Ba-La-140	< 2.4	< 2.4	< 4.1	< 4.2	15
Lab Code	TSWU- 3425	TSWU- 4362	TSWU- 5333	TSWU- 5892	
Date Collected	05-31-11	06-29-11	08-02-11	08-30-11	Req. LLD
Gross Beta	1.5 ± 0.6	2.1 ± 0.8	2.1 ± 0.8	1.5 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.6	< 5.5	< 1.9	< 1.1	15
Fe-59	< 6.2	< 9.0	< 5.7	< 3.3	30
Co-58	< 2.5	< 2.9	< 3.2	< 1.7	15
Co-60	< 1.8	< 3.7	< 2.0	< 1.4	15
Zn-65	< 4.3	< 6.0	< 2.0	< 3.5	30
Zr-Nb-95	< 3.5	< 5.6	< 3.8	< 2.1	15
Cs-134	< 2.9	< 3.8	< 2.0	< 2.5	10
Cs-137	< 2.5	< 2.7	< 2.4	< 2.6	18
Ba-La-140	< 2.7	< 6.6	< 5.5	< 4.0	15
Lab Code	TSWU- 6595	TSWU- 7660	TSWU- 8391	TSWU- 9089	
Date Collected	09-27-11	11-01-11	11-29-11	01-03-12	Req. LLD
Gross Beta	1.9 ± 0.5	3.4 ± 0.8	< 0.9	3.5 ± 0.7	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 3.2	< 2.9	< 3.2	< 3.9	15
Fe-59	< 7.0	< 6.5	< 5.1	< 7.5	30
Co-58	< 2.9	< 3.5	< 3.1	< 4.2	15
Co-60	< 1.9	< 4.6	< 2.1	< 2.3	15
Zn-65	< 5.6	< 6.8	< 7.1	< 5.7	30
Zr-Nb-95	< 2.6	< 5.0	< 3.0	< 4.5	15
Cs-134	< 2.8	< 3.8	< 3.5	< 2.0	10
Cs-137	< 3.7	< 4.1	< 4.4	< 4.5	18
Ba-La-140	< 4.0	< 2.2	< 4.8	< 4.3	15

Table 25. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes.
 Location: T-145 (QC)
 Collection: Monthly composites of weekly grab samples
 Units: pCi/L

Lab Code	TSWU- 453	TSWU- 855	TSWU- 1525	TSWU- 2953	
Date Collected	01-31-11	03-01-11	03-29-11	04-26-11	Req. LLD
Gross beta	3.2 ± 0.8	2.7 ± 0.7	1.8 ± 0.8	2.0 ± 0.7	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 4.1	< 5.0	< 2.5	< 2.4	15
Fe-59	< 5.4	< 6.2	< 2.5	< 4.7	30
Co-58	< 4.8	< 2.5	< 1.7	< 3.4	15
Co-60	< 2.7	< 3.6	< 1.5	< 1.6	15
Zn-65	< 6.1	< 3.9	< 4.5	< 1.0	30
Zr-Nb-95	< 5.0	< 3.5	< 3.9	< 2.2	15
Cs-134	< 3.8	< 4.5	< 3.1	< 1.9	10
Cs-137	< 4.1	< 3.9	< 2.7	< 1.6	18
Ba-La-140	< 6.9	< 3.4	< 3.4	< 6.8	15
Lab Code	TSWU- 3426	TSWU- 4363	TSWU- 5334	TSWU- 5893	
Date Collected	05-31-11	06-29-11	08-02-11	08-30-11	Req. LLD
Gross Beta	2.9 ± 1.1	3.5 ± 0.9	2.3 ± 0.8	4.1 ± 1.0	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.5	< 2.5	< 2.4	< 4.0	15
Fe-59	< 2.8	< 5.8	< 4.7	< 8.6	30
Co-58	< 2.2	< 4.6	< 1.7	< 4.0	15
Co-60	< 1.8	< 3.5	< 1.6	< 2.3	15
Zn-65	< 2.1	< 5.7	< 2.9	< 6.3	30
Zr-Nb-95	< 1.8	< 4.0	< 3.5	< 3.9	15
Cs-134	< 2.7	< 2.2	< 2.6	< 2.6	10
Cs-137	< 2.1	< 3.7	< 2.9	< 3.6	18
Ba-La-140	< 4.0	< 5.8	< 5.9	< 5.6	15
Lab Code	TSWU- 6596	TSWU- 7661	TSWU- 8392	TSWU- 9090	
Date Collected	09-27-11	11-01-11	11-29-11	01-03-12	Req. LLD
Gross Beta	3.3 ± 0.8	1.5 ± 0.6	1.3 ± 0.6	3.3 ± 0.7	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.5	< 2.2	< 1.9	< 2.9	15
Fe-59	< 2.8	< 6.9	< 4.2	< 3.5	30
Co-58	< 3.2	< 3.0	< 1.8	< 1.7	15
Co-60	< 1.3	< 2.0	< 2.3	< 2.1	15
Zn-65	< 4.1	< 7.7	< 4.9	< 6.0	30
Zr-Nb-95	< 2.8	< 3.6	< 2.0	< 2.8	15
Cs-134	< 1.5	< 3.9	< 1.8	< 2.5	10
Cs-137	< 2.1	< 3.6	< 3.2	< 3.3	18
Ba-La-140	< 3.8	< 5.3	< 2.6	< 2.0	15

Table 26. Untreated surface water samples, analyses for strontium-89 and strontium-90.
 Collection: Quarterly composites of weekly grab samples
 Units: pCi/L

Location				
T-3				
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	TSWU- 1835	TSWU- 4514	TSWU- 6749	TSWU- 9118
Sr-89	< 1.1	< 0.7	< 1.0	< 0.7
Sr-90	< 0.7	< 0.4	< 0.6	< 0.5

Location				
T-11 (C)				
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	TSWU- 1836	TSWU- 4515	TSWU- 6750	TSWU- 9119
Sr-89	< 0.8	< 0.7	< 1.1	< 0.7
Sr-90	< 0.5	< 0.7	< 0.6	< 0.5

Location				
T-12 (C)				
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	TSWU- 1837	TSWU- 4516	TSWU- 6751	TSWU- 9120
Sr-89	< 0.7	< 0.8	< 0.9	< 0.7
Sr-90	< 0.5	< 0.5	< 0.5	< 0.5

Location				
T-22				
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	TSWU- 1838	TSWU- 4517	TSWU- 6752	TSWU- 9121
Sr-89	< 0.6	< 0.7	< 0.8	< 0.7
Sr-90	< 0.4	< 0.5	< 0.4	< 0.5

Table 27. Fish samples, analyses for gross beta and gamma-emitting isotopes.

Collection: Annually

Units: pCi/g wet

Location	T-33 (Lake Erie, 1.5 mi. NE of Station)		
Lab Code	TF- 5242	TF- 5243	TF- 5244
Date Collected	06-07-11	05-24-11	04-13-11
Sample Type	Commercial sp.	Carp	Walleye
Gross Beta	2.9 ± 0.1	2.9 ± 0.1	4.4 ± 0.1
K-40	3.23 ± 0.43	1.47 ± 0.31	3.30 ± 0.43
Mn-54	< 0.014	< 0.016	< 0.013
Fe-59	< 0.066	< 0.060	< 0.118
Co-58	< 0.027	< 0.018	< 0.024
Co-60	< 0.012	< 0.011	< 0.012
Zn-65	< 0.018	< 0.017	< 0.039
Cs-134	< 0.016	< 0.011	< 0.014
Cs-137	< 0.012	< 0.010	< 0.017

Location	T-35		
Lab Code	TF- 5245	TF- 5246	TF- 5247
Date Collected	05-14-11	07-27-11	04-01-11
Sample Type	Commercial sp.	Carp	Walleye
Gross Beta	3.0 ± 0.1	3.5 ± 0.1	4.6 ± 0.1
K-40	2.54 ± 0.37	2.83 ± 0.36	3.26 ± 0.43
Mn-54	< 0.012	< 0.012	< 0.015
Fe-59	< 0.091	< 0.023	< 0.213
Co-58	< 0.018	< 0.007	< 0.034
Co-60	< 0.012	< 0.010	< 0.010
Zn-65	< 0.020	< 0.011	< 0.015
Cs-134	< 0.009	< 0.010	< 0.008
Cs-137	< 0.015	< 0.009	< 0.011

Table 28. Shoreline sediment samples, analyses for gamma-emitting isotopes.
 Collection: Semiannually
 Units: pCi/g dry

Location	T-3	T-4	T-4P	T-27B	T-132
Lab Code	TSS- 3434	TSS- 3436	TSS- 3437	TSS- 3438	TSS- 3439
Date Collected	05-25-11	05-25-11	05-25-11	05-25-11	05-25-11
K-40	11.53 ± 0.56	16.69 ± 0.93	18.25 ± 0.94	9.57 ± 0.54	8.86 ± 0.49
Mn-54	< 0.018	< 0.034	< 0.023	< 0.014	< 0.015
Co-58	< 0.019	< 0.038	< 0.012	< 0.010	< 0.014
Co-60	< 0.013	< 0.036	< 0.010	< 0.018	< 0.011
Cs-134	< 0.011	< 0.026	< 0.021	< 0.012	< 0.012
Cs-137	< 0.011	< 0.034	< 0.026	< 0.014	< 0.011
Lab Code	TSS- 8104	TSS- 8105	TSS- 8106	TSS- 8107	TSS- 8108
Date Collected	11-08-11	11-16-11	11-16-11	11-08-11	11-16-11
K-40	7.67 ± 0.46	12.00 ± 0.67	17.12 ± 0.92	10.69 ± 0.55	10.21 ± 0.64
Mn-54	< 0.013	< 0.021	< 0.034	< 0.017	< 0.020
Co-58	< 0.008	< 0.012	< 0.020	< 0.025	< 0.029
Co-60	< 0.009	< 0.012	< 0.023	< 0.015	< 0.013
Cs-134	< 0.010	< 0.012	< 0.023	< 0.015	< 0.016
Cs-137	< 0.010	< 0.017	< 0.027	< 0.014	< 0.014

APPENDIX B

DATA REPORTING CONVENTIONS

Data Reporting Conventions

1.0. All activities, except gross alpha and gross beta, are decay corrected to collection time or the end of the collection period.

2.0. Single Measurements

Each single measurement is reported as follows: $x \pm s$
where: x = value of the measurement;
 $s = 2\sigma$ counting uncertainty (corresponding to the 95% confidence level).

In cases where the activity is less than the lower limit of detection L , it is reported as: $< L$,
where L = the lower limit of detection based on 4.66σ uncertainty for a background sample.

3.0. Duplicate analyses

If duplicate analyses are reported, the convention is as follows. :

- 3.1 Individual results: For two analysis results; $x_1 \pm s_1$ and $x_2 \pm s_2$
Reported result: $x \pm s$; where $x = (1/2)(x_1 + x_2)$ and $s = (1/2)\sqrt{s_1^2 + s_2^2}$
- 3.2. Individual results: $< L_1, < L_2$ Reported result: $< L$, where L = lower of L_1 and L_2
- 3.3. Individual results: $x \pm s, < L$ Reported result: $x \pm s$ if $x \geq L$; $< L$ otherwise.

4.0. Computation of Averages and Standard Deviations

4.1 Averages and standard deviations listed in the tables are computed from all of the individual measurements over the period averaged; for example, an annual standard deviation would not be the average of quarterly standard deviations. The average \bar{x} and standard deviation "s" of a set of n numbers $x_1, x_2 \dots x_n$ are defined as follows:

$$\bar{x} = \frac{1}{n} \sum x \qquad s = \sqrt{\frac{\sum (x - \bar{x})^2}{n-1}}$$

4.2 Values below the highest lower limit of detection are not included in the average.

4.3 If all values in the averaging group are less than the highest LLD, the highest LLD is reported.

4.4 If all but one of the values are less than the highest LLD, the single value x and associated two sigma error is reported.

4.5 In rounding off, the following rules are followed:

4.5.1. If the number following those to be retained is less than 5, the number is dropped, and the retained numbers are kept unchanged. As an example, 11.443 is rounded off to 11.44.

4.5.2. If the number following those to be retained is equal to or greater than 5, the number is dropped and the last retained number is raised by 1. As an example, 11.445 is rounded off to 11.45.

APPENDIX C

SUPPLEMENTAL ANALYSES

C-1. Airborne iodine-131, as measured in activated charcoal canisters.

Units: pCi/m³ Required LLD: 0.070

Collection: Continuous, weekly exchange.

Location	Date Collected	Volume (m ³)	Concentration I-131 (pCi/m ³)
T-1	03-22-11	304	0.043 ± 0.022
T-2	03-22-11	286	0.047 ± 0.023
T-3	03-22-11	288	0.046 ± 0.020
T-4	03-22-11	289	0.040 ± 0.018
T-7	03-22-11	286	0.033 ± 0.015
T-8	03-22-11	289	0.034 ± 0.020
T-9	03-22-11	289	0.056 ± 0.024
T-11	03-22-11	284	0.044 ± 0.015
T-12	03-22-11	297	0.060 ± 0.022
T-27	03-22-11	286	0.049 ± 0.022
T-1	03-29-11	302	0.080 ± 0.020
T-2	03-29-11	275	0.076 ± 0.020
T-3	03-29-11	285	0.070 ± 0.016
T-4	03-29-11	284	0.065 ± 0.023
T-7	03-29-11	285	0.081 ± 0.021
T-8	03-29-11	288	0.061 ± 0.027
T-9	03-29-11	289	0.074 ± 0.025
T-11	03-29-11	283	0.083 ± 0.021
T-12	03-29-11	293	0.075 ± 0.025
T-27	03-29-11	285	0.057 ± 0.025
T-1	04-05-11	305	0.134 ± 0.023
T-2	04-05-11	287	0.139 ± 0.025
T-3	04-05-11	287	0.132 ± 0.020
T-4	04-05-11	292	0.160 ± 0.033
T-7	04-05-11	287	0.140 ± 0.022
T-8	04-05-11	289	0.148 ± 0.029
T-9	04-05-11	279	0.140 ± 0.020
T-11	04-05-11	285	0.140 ± 0.022
T-12	04-05-11	301	0.166 ± 0.031
T-27	04-05-11	292	0.155 ± 0.026
T-1	04-12-11	302	0.066 ± 0.024
T-2	04-12-11	285	< 0.031
T-3	04-12-11	285	< 0.026
T-4	04-12-11	289	< 0.032
T-7	04-12-11	286	0.053 ± 0.026
T-8	04-12-11	289	0.056 ± 0.032
T-9	04-12-11	294	< 0.030
T-11	04-12-11	284	< 0.033
T-12	04-12-11	292	0.064 ± 0.031
T-27	04-12-11	280	< 0.026

C-1. Airborne iodine-131, as measured in activated charcoal canisters.

Units: pCi/m³ Required LLD: 0.070

Collection: Continuous, weekly exchange.

Location	Date Collected	Volume (m ³)	Concentration I-131 (pCi/m ³)
T-1	04-19-11	304	< 0.015
T-2	04-19-11	286	< 0.017
T-3	04-19-11	286	< 0.018
T-4	04-19-11	291	< 0.020
T-7	04-19-11	286	< 0.015
T-8	04-19-11	288	< 0.022
T-9	04-19-11	284	< 0.018
T-11	04-19-11	284	< 0.017
T-12	04-19-11	297	< 0.018
T-27	04-19-11	291	< 0.017
T-1	04-26-11	304	< 0.017
T-2	04-26-11	287	< 0.016
T-3	04-26-11	281	< 0.017
T-4	04-26-11	292	< 0.015
T-7	04-26-11	286	< 0.014
T-8	04-26-11	291	0.034 ± 0.019
T-9	04-26-11	278	< 0.024
T-11	04-26-11	284	< 0.019
T-12	04-26-11	286	< 0.016
T-27	04-26-11	287	< 0.016