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U.S. Nuclear Regulatory Commission
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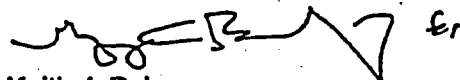
Braidwood Station, Units 1 and 2
Facility Operating License Nos. NPF-72 and NPF-77
NRC Docket Nos. STN 50-456 and STN 50-457

Subject: 2004 Annual Radiological Environmental Operating Report

Attached is the 2004 Annual Radiological Environmental Operating Report for Braidwood Station. This report is being submitted in accordance with Technical Specification 5.6.2, "Annual Radiological Environmental Operating Report." This report contains information associated with the station's radiological environmental and meteorological monitoring programs. This information is consistent with the objectives described in the Offsite Dose Calculation Manual and 10 CFR 50, Appendix I, "Numerical Guides for Design Objectives and Limiting Conditions for Operation to Meet the Criterion 'As Low as is Reasonably Achievable' for Radioactive Material In Light-Water-Cooled Nuclear Power Reactor Effluents," Sections IV.B.1, IV.B.2, and IV.B.3. Technical Specification 5.6.2 requires the Annual Radiological Environmental Operating Report to be submitted by May 15 of each year.

If you have any questions regarding this information, please contact Mr. Dale Ambler, Regulatory Assurance Manager, at (815) 417-2800.

Respectfully,



Keith J. Polson
Site Vice President
Braidwood Station

Attachment

cc: Regional Administrator - NRC Region III
 NRC Senior Resident Inspector - Braidwood Station

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6
FOIA- 2006-115

JE25

6-15

(0.034 pCi/m³, except for the period from May 16 through June 6 when it was influenced by the nuclear reactor accident at Chernobyl), 1987 (0.027 pCi/m³), 1988 (0.031 pCi/m³), 1989 (0.028 pCi/m³), and similar to 1990 (0.024 pCi/m³), 1991 (0.022 pCi/m³), 1992 (0.022 pCi/m³), 1993 (0.022 pCi/m³), 1994 (0.021 pCi/m³), 1995 (0.023 pCi/m³), 1996 (0.022 pCi/m³), 1997 (0.023 pCi/m³), 1998 (0.025 pCi/m³), 1999 (0.027 pCi/m³), 2000 (0.028 pCi/m³), 2001 (0.027 pCi/m³), 2002 (0.028 pCi/m³) and 2003 (0.026 pCi/m³).

All gamma-emitting nuclide activity was below respective LLD levels. No activity attributable to station operation was detected in any sample.

5.3 Terrestrial Radioactivity

Vegetables were collected in August and analyzed for I-131 and gamma-emitting nuclides. I-131 and gamma-emitting nuclides were below the limits of detection indicating that there was no measurable amount of radioactivity attributable to the station releases.

5.4 Aquatic Radioactivity

Well water was collected quarterly from one nearsite well (BD-13) and four farsite wells (BD-34, BD-35, BD-36, BD-37) and was analyzed for tritium and gamma-emitting nuclides. Tritium levels at BD-13, BD-34, BD-35 and BD-37 remained below the LLD level of 200 pCi/L. Tritium levels at BD-36 averaged 438 pCi/L with a first quarter high of 494 pCi/L. All gamma-emitters were below the LLD. These results are similar to those obtained since 1991 when tritium well water sampling was initiated.

Weekly surface water samples from BD-10 (Kankakee River, Downstream) and BD-25 (Kankakee River, Upstream) were composited monthly and analyzed for gamma-emitting nuclides and gross beta activity. Quarterly composites were analyzed for tritium. Public water samples from BD-22 (Wilmington) were also composited monthly and analyzed for gamma-emitting nuclides, gross beta and tritium. Weekly composite samples from BD-22 are analyzed for tritium to provide information and trending. These samples and analyses are not required by the ODCM or REMP program.

Cs-134 and Cs-137 concentrations were below the LLD level of 15 pCi/L and 18 pCi/L, respectively, in all samples.

Gross beta concentrations at BD-10 averaged 3.3 pCi/L with a range of 2.2-4.8 pCi/L; concentrations at BD-25 averaged 5.8 pCi/L with a range of 2.7-9.3 pCi/L. Gross beta concentrations at BD-22 averaged 2.7 pCi/L with a range of 1.5-3.7 pCi/L.

Tritium concentrations at BD-10 and BD-25 remained below the LLD level of 200 pCi/L in all samples. Tritium concentrations in public water samples (BD-22) averaged 853 pCi/L with a range of 42-3,144 pCi/L. These values are less than the

reportable level of 20,000 pCi/L for drinking water, and are attributable to plant operation. These results were consistent with plant effluent releases and river flow dilution.

Sediment samples were collected twice a year, in May and October, from two indicator locations (BD-10 and BD-41) and analyzed for gamma-emitters. Cs-134 and Cs-137 concentrations were below the lower limit of detection (0.15 and 0.18 pCi/g dry weight, respectively) in all samples. These values are similar to those obtained in 1986 through 2003.

Levels of gamma radioactivity in fish were measured and all samples were below the LLD for the year.

Water, fish and sediment locations are shown in Figure 5.0-3.

5.5 Milk

Milk samples were collected monthly from November through April and biweekly from May through October and analyzed for I-131 and gamma-emitting nuclides. Milk locations are shown in Figure 5.0-3.

I-131 concentration was below the LLD level of 1.0 pCi/L in all samples.

Cs-134, Cs-137 and Ba/La-140 were below the LLD level of 15, 18 and 15 pCi/L, respectively. These results are identical to those obtained in 1986 through 2002.

5.6 Sample Collections

All samples were collected as scheduled except those listed in the Listing of Missed Samples, Section 2.0 of Appendix III.

5.7 Program Modifications

There were no changes to the program in 2004.

6.0 ANALYTICAL PROCEDURES

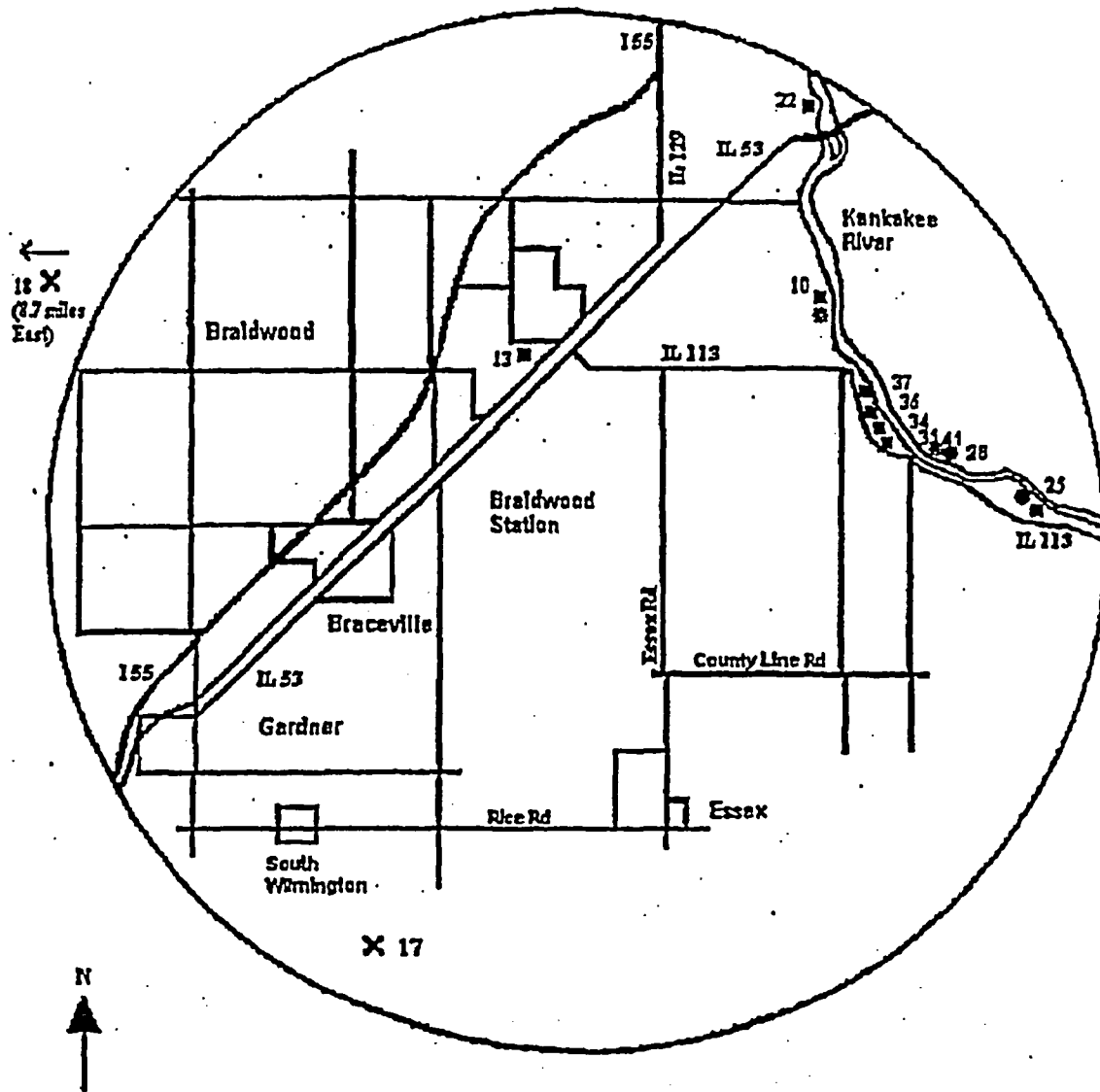
Procedures used during the period covered in this report remained unchanged. A summary of the procedures used for analyzing radioactivity in environmental samples is given in Appendix V of the report for the period January - December 1993.

7.0 MILCH ANIMALS AND NEAREST LIVESTOCK CENSUS

A census of milch animals and nearest cattle was conducted within a 6.2-mile radius of the Station. The survey was conducted by "door-to-door" canvas and by information from Illinois Agricultural Agents. The census was conducted by A. Lewis on August 30, 2004.

BRAIDWOOD

Figure 5.0-3



- Water
- Fish
- ⊗ Sediment
- ✕ Milk

Braidwood Station	
Ingestion and Waterborne Exposure Pathway Sample Locations	
BD-10	Kankakee River, Downstream
BD-13	Braidwood City Hall Well
BD-17	[REDACTED]
BD-18	[REDACTED]
BD-22	Wilmington
BD-25	Kankakee River, Upstream
BD-28	Kankakee River, Discharge
BD-34	[REDACTED] Well
BD-35	[REDACTED] Well
BD-36	[REDACTED] Well
BD-37	[REDACTED]
BD-41	Kankakee River, Downstream

Ex 6

TABLE 5.0-2 (continued)

BRAIDWOOD STATION

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM, SAMPLING LOCATIONS

5. PUBLIC WATER

<u>Site Code</u>	<u>Location</u>	<u>Distance (miles)</u>	<u>Direction</u>	<u>Sector</u>
BD-22	Wilmington	6.0	NE	C

6. GROUND/WELL WATER

<u>Site Code</u> ^a	<u>Location</u>	<u>Distance (miles)</u>	<u>Direction</u>	<u>Sector</u>
BD-13	Braidwood City Hall Well	1.7	NNE	B
BD-34	Well	4.7	E	E
BD-35	Well	4.7	E	E
BD-36	Well	4.7	E	E
BD-37	Well	4.7	E	E

Ex. 6

7. SURFACE WATER

<u>Site Code</u> ^a	<u>Location</u>	<u>Distance (miles)</u>	<u>Direction</u>	<u>Sector</u>
BD-10	Kankakee River, Downstream	5.4	NE	C
BD-25 (C)	Kankakee River, Upstream	9.6	E	E

8. FISH

<u>Site Code</u> ^a	<u>Location</u>	<u>Distance (miles)</u>	<u>Direction</u>	<u>Sector</u>
BD-25 (C)	Kankakee River, Upstream	9.6	E	E
BD-28	Kankakee River, Discharge	5.4	E	E

9. SHORELINE SEDIMENTS

<u>Site Code</u> ^a	<u>Location</u>	<u>Distance (miles)</u>	<u>Direction</u>	<u>Sector</u>
BD-10	Kankakee River, Downstream	5.4	NE	C
BD-41	Kankakee River, Downstream	5.2	E	E

^a Control (background) locations are denoted by a "C" after site code. All other locations are indicators.

Table 5.0-3

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457
 Location of Facility Will, Illinois Reporting Period 1st Quarter 2004
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results
Air Particulates (pCi/m ³)	Gross Beta 65	0.01	0.027 (52/52) (0.010-0.045)	BD-06 ^b , Godley 0.5 mi. WSW, Sector M	0.028 (13/13) (0.016-0.043)	0.028 (13/13) (0.018-0.039)	0
	Gamma Spec. 5						
	Cs-134	0.05	<LLD	-	-	<LLD	0
	Cs-137	0.06	<LLD	-	-	<LLD	0
	Other Gammas	0.01-0.04	<LLD	-	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131 35	0.07	<LLD	-	-	<LLD	0
Milk (pCi/L)	I-131 6	1	<LLD	-	-	<LLD	0
	Gamma Spec. 6						
	Cs-134	15	<LLD	-	-	<LLD	0
	Cs-137	18	<LLD	-	-	<LLD	0
	Ba-140	60	<LLD	-	-	<LLD	0
	La-140	15	<LLD	-	-	<LLD	0
Other Gammas	10-15	<LLD	-	-	<LLD	0	
Surface Water (pCi/L)	Gross Beta 6	4	<LLD	BD-25, Kankakee River, Upstream, 9.6 mi. E, Sector E	6.4 (3/3) (4.3-9.3)	6.4 (2/3) (4.3-9.3)	0
	Gamma Spec. 6						
	Cs-134	15	<LLD	-	-	<LLD	0
	Cs-137	18	<LLD	-	-	<LLD	0
	Other ODCM-Required Gammas	15-60	<LLD	-	-	<LLD	0
Tritium	2	200	<LLD	-	-	<LLD	0
Well Water (pCi/L)	Tritium 5	200	494 (1/5)	BD-36 Well, 4.7 mi. E, Sector E	494 (1/1)	None	0
	Gamma Spec. 5						
	Cs-134	15	<LLD	-	-	None	0
	Cs-137	18	<LLD	-	-	None	0
	Other ODCM-Required Gammas	15-60	<LLD	-	-	None	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

^b Locations BD-06, BD-20 and BD-03 (C) had identical means of 0.028 pCi/m³. BD-06 and BD-03 (C) are detailed in this summary.

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Table 5.0-3 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457
 Location of Facility Will, Illinois Reporting Period 1st Quarter 2004
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results
Public Water (pCi/L)	Gross Beta 3	4	<LLD	-	-	None	0
	Tritium 3	200	345 (3/3) (219-432)	BD-22, Wilmington, 6.0 mi NE, Sector C	345 (3/3) (219-432)	None	0
	Gamma Spec. 3						
	Cs-134	15	<LLD	-	-	None	0
	Cs-137	18	<LLD	-	-	None	0
	Other ODCM-Required Gammas	15-60	<LLD	-	-	None	0
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose 80	9.7	22.6 (78/78) (19.0-29.0)	BD-211-1 4.8 mi. SW, Sector L	29.0 (1/1)	24.0 (2/2) (24.0-24.0)	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

Table 5.0-4

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456-50-457Location of Facility Will, Illinois Reporting Period 2nd Quarter 2004
(County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results
Air Particulates (pCi/m ³)	Gross Beta 65	0.01	0.018 (51/51) (0.010-0.031)	BD-20, Nearsite N 0.6 mi N, Sector A	0.020 (13/13) (0.012-0.031)	0.019 (13/13) (0.012-0.028)	0
	Gamma Spec. 5						
	Cs-134	0.01	<LLD	-	-	<LLD	0
	Cs-137	0.01	<LLD	-	-	<LLD	0
	Other Gammas	0.01-0.04	<LLD	-	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131 30	0.07	<LLD	-	-	<LLD	0
Milk (pCi/L)	I-131 10	1	<LLD	-	-	<LLD	0
	Gamma Spec. 10						
	Cs-134	15	<LLD	-	-	<LLD	0
	Cs-137	18	<LLD	-	-	<LLD	0
	Ba-140	60	<LLD	-	-	<LLD	0
	La-140	15	<LLD	-	-	<LLD	0
	Other Gammas	10-15	<LLD	-	-	<LLD	0
Fish (pCi/g wet)	Gamma Spec. 4						
	Cs-134	0.13	<LLD	-	-	<LLD	0
	Cs-137	0.15	<LLD	-	-	<LLD	0
	Other ODCM-Required Gammas	0.13-0.26	<LLD	-	-	<LLD	0
	Other Gammas	0.20-0.30	<LLD	-	-	<LLD	0
Bottom Sediments (pCi/g dry)	Gamma Spec. 2						
	Cs-134	0.15	<LLD	-	-	None	0
	Cs-137	0.18	<LLD	-	-	None	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

Table 5.0-4 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457Location of Facility Will, Illinois Reporting Period 2nd Quarter 2004
(County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results		
Surface Water (pCi/L)	Gross Beta 6	4	4.8 (1/1)	BD-25, Kankakee River, Upstream 9.6 mi. E, Sector E	5.5 (3/3) (4.2-6.9)	5.5 (3/3) (4.2-6.9)	0		
	Gamma Spec. 6								
	Cs-134 15	<LLD	-					<LLD	0
	Cs-137 18	<LLD	-					<LLD	0
	Other ODCM-Required Gammas 15-30	<LLD	-					<LLD	0
	Tritium 2	200	<LLD					-	<LLD
Well Water (pCi/L)	Tritium 5	200	396 (1/5)	BD-36, Well 4.7 mi. E, Sector E JV	396 (1/1)	None	0		
	Gamma Spec. 5								
	Cs-134 15	<LLD	-					None	0
	Cs-137 18	<LLD	-					None	0
	Other ODCM-Required Gammas 15-30	<LLD	-					None	0
Public Water (pCi/L)	Gross Beta 3	4	<LLD	-	-	None	0		
	Tritium 3	200	<LLD						
	Gamma Spec. 3								
	Cs-134 15	<LLD	-					None	0
	Cs-137 18	<LLD	-					None	0
	Other ODCM-Required Gammas 15-30	<LLD	-					None	0
Gamma Background (TLDs) (mR/Qtr.)	Gamma Dose 80	9.7	23.5 (78/78) (21.0-30.0)	BD-209-1, 4.8 mi. S, Sector J	30.0 (1/1)	22.5 (2/2) (22.0-23.0)	0		

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

Table 5.0-5

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457Location of Facility Will, Illinois Reporting Period 3rd Quarter 2004
(County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results
Air Particulates (pCi/m ³)	Gross Beta 70	0.01	0.023 (56/56) (0.013-0.035)	BD-19 ^b , Nearsite, NW 0.3 mi NW, Sector Q	0.024 (14/14) (0.017-0.035)	0.024 (14/14) (0.015-0.043)	0
	Gamma Spec. 5			-	-		
	Cs-134	0.01	<LLD	-	-	<LLD	0
	Cs-137	0.01	<LLD	-	-	<LLD	0
	Other Gammas	0.01-0.04	<LLD	-	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131 35	0.07	<LLD	-	-	<LLD	0
Milk (pCi/L)	I-131 14	1	<LLD	-	-	<LLD	0
	Gamma Spec. 14			-	-		
	Cs-134	15	<LLD	-	-	<LLD	0
	Cs-137	18	<LLD	-	-	<LLD	0
	Ba-140	60	<LLD	-	-	<LLD	0
	La-140	15	<LLD	-	-	<LLD	0
Vegetation (pCi/g wet)	I-131 10	0.06	<LLD	-	-	<LLD	0
	Gamma Spec. 10			-	-		
	Cs-134	0.06	<LLD	-	-	<LLD	0
	Cs-137	0.08	<LLD	-	-	<LLD	0
	Other Gammas	0.01-0.10	<LLD	-	-	<LLD	0
Surface Water (pCi/L)	Gross Beta 6	4	4.3 (1/3)	BD-25 Kankakee River, Upstream, 9.6 mi E, Sector E	6.4 (2/3) (5.0-7.7)	6.4 (2/3) (5.0-7.7)	0
	Gamma Spec. 6			-	-		
	Cs-134	15	<LLD	-	-	<LLD	0
	Cs-137	18	<LLD	-	-	<LLD	0
	Other ODCM-Required Gammas	15-30	<LLD	-	-	<LLD	0
	Tritium 2	200	<LLD	-	-	<LLD	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.^b Locations BD-03 (C) and BD-19 had identical means of 0.024 pCi/m³. Both are detailed in this summary.

Table 5.0-5 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457
 Location of Facility Will, Illinois Reporting Period 3rd Quarter 2004
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results
Well Water (pCi/L)	Tritium 5	200	485 (1/5)	BD-36 Well 4.7 mi. E, Sector E	485 (1/1)	None	0
	Gamma Spec. 5						
	Cs-134 15		<LLD	-	-	None	0
	Cs-137 18		<LLD	-	-	None	0
	Other ODCM-Required Gammas 15-30		<LLD	-	-	None	0
Public Water (pCi/L)	Gross Beta 3	4	<LLD	-	-	None	0
	Tritium 3	200	1,911 (3/3) (685-3,144)	BD-22, Wilmington, 6.0 mi NE, Sector C	1,911 (3/3) (685-3,144)	None	0
	Gamma Spec. 3						
	Cs-134 15		<LLD	-	-	None	0
	Cs-137 18		<LLD	-	-	None	0
	Other ODCM-Required Gammas 15-30		<LLD	-	-	None	0
Gamma Background (TLDs) (mR/Qt.)	Gamma Dose 80	9.7	25.7 (78/78) (22.0-31.0)	BD-109-1 3.8 mi. S, Sector J	31.0 (1/1)	24.0 (2/2) (24.0-24.0)	0

Ex. 6

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.

^b Locations BD-109-1, 209-1 and 209-2 had identical means of 31 mR. Only BD-109-1 is detailed in this summary.

Table 5.0-6

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457Location of Facility Will, Illinois Reporting Period 4th Quarter 2004
(County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results
Air Particulates (pCi/m ³)	Gross Beta 65	0.01	0.028 (52/52) (0.013-0.038)	BD19 ^b , Nearsite NW, 0.3 mi. NW, Sector Q	0.028 (13/13) (0.016-0.036)	0.027 (13/13) (0.015-0.040)	0
	Gamma Spec. 5						
	Cs-134	0.05	<LLD	-	-	<LLD	0
	Cs-137	0.06	<LLD	-	-	<LLD	0
	Other Gammas	0.01-0.04	<LLD	-	-	<LLD	0
Airborne Iodine (pCi/m ³)	I-131 35	0.07	<LLD	-	-	<LLD	0
Milk (pCi/L)	I-131 8	1	<LLD	-	-	<LLD	0
	Gamma Spec. 8						
	Cs-134	15	<LLD	-	-	<LLD	0
	Cs-137	18	<LLD	-	-	<LLD	0
	Ba-140	60	<LLD	-	-	<LLD	0
	La-140	15	<LLD	-	-	<LLD	0
	Other Gammas	10-15	<LLD	-	-	<LLD	0
Fish (pCi/g wet)	Gamma Spec. 4						
	Cs-134	0.13	<LLD	-	-	<LLD	0
	Cs-137	0.15	<LLD	-	-	<LLD	0
	Other ODCM-Required Gammas	0.13-0.26	<LLD	-	-	<LLD	0
	Other Gammas	0.20-0.30	<LLD	-	-	<LLD	0
Bottom Sediments (pCi/g dry)	Gamma Spec. 2						
	Cs-134	0.15	<LLD	-	-	None	0
	Cs-137	0.18	<LLD	-	-	None	0
	Other Gammas	0.10-0.60	<LLD	-	-	None	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.^b BD-19 and BD-20 had identical means of 0.028 pCi/m³. Only BD-19 is detailed in this summary.

Table 5.0-6 (continued)

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM QUARTERLY SUMMARY

Name of Facility Braidwood Nuclear Power Station Docket No. 50-456, 50-457
 Location of Facility Will, Illinois Reporting Period 4th Quarter, 2004
 (County, State)

Sample Type (Units)	Type and Number of Analyses	LLD	Indicator Locations Mean ^a Range	Location with Highest Quarterly Mean	Highest Mean ^a Range	Control Locations Mean ^a Range	Number of Non-routine Results
Surface Water (pCi/L)	Gross Beta 6	4	4.0 (1/3)	BD-25, Kankakee River Upstream, 9.6 mi. E, Sector E	7.3 (2/3) (6.3-8.3)	7.3 (2/3) (6.3-8.3)	0
	Gamma Spec. 6						
	Cs-134 15	<LLD					
	Cs-137 18	<LLD					
	Other ODCM-Required Gammas 15-30	<LLD					
Tritium 2	200	<LLD			<LLD	0	
Well Water (pCi/L)	Gamma Spec. 5			BD-36, [redacted] Well, 4.7 mi. E, Sector E		None	0
	Cs-134 15	<LLD					
	Cs-137 18	<LLD					
	Other ODCM-Required Gammas 15-30	<LLD					
Tritium 5	200	376 (1/5)	376 (1/1)	None	0		
Public Water (pCi/L)	Gross Beta 3	4	<LLD	BD-22, Wilmington, 6.0 mi NE, Sector C		None	0
	Gamma Spec. 3						
	Cs-134 15	<LLD					
	Cs-137 18	<LLD					
	Other ODCM-Required Gammas 15-30	<LLD					
Tritium 3	200	1,554 (2/3) (364-2,743)	1,554 (2/3) (364-2,743)	None	0		
Gamma Background (TLDs) (mR/Qt.)	Gamma Dose 80	9.7	25.3 (78/78) (22.0-30.0)	BD209-2 ^b 4.8 mi S, Sector J	30.0 (1/1)	25.0 (2/2) (25.0-25.0)	0

^a Mean and range based on detectable measurements only. Fractions indicated in parentheses.
^b BD-209-2 and BD-211-1 had identical means of 30 mR. Only BD-209-2 is detailed in this summary.

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Table 7. Surface Water
 Collection: Quarterly composites of weekly collections
 Required LLD: H-3 = 200 pCi/L
 Units: pCi/L

2004 Collection Period	<u>Sample Description and Concentration</u>	Tritium
	Lab Code	
	<u>BD-10 Kankakee River, Downstream</u>	
1st Quarter	BDSW - 1260	90 ± 84 ; 85
2nd Quarter	BDSW - 3541	45 ± 83 ; 83
3rd Quarter	BDSW - 5612,3	83 ± 62 ; 63
4th Quarter	BDSW - 7611	176 ± 90 ; 94
	<u>BD-25 (C) Kankakee River, Upstream</u>	
1st Quarter	BDSW - 1261	125 ± 86 ; 87
2nd Quarter	BDSW - 3542	-10 ± 80 ; 80
3rd Quarter	BDSW - 5614	47 ± 86 ; 86
4th Quarter	BDSW - 7612	176 ± 90 ; 94

BRAIDWOOD

Table 8. Well Water
 Collection: Quarterly
 ODCM-
 Required LLDs: H-3 = 200, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30,
 Zr-95 = 30, Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba-140 = 60, La-140 = 15 pCi/L
 Units: pCi/L

Sample Description and Concentration

BD-13 Braidwood City Hall Well

Date Collected	01-08-04	04-08-04	07-08-04	10-14-04
Lab Code	BDWW-157	BDWW-1563	BDWW-3583	BDWW-6053
H-3	22 ± 80; 80	11 ± 77; 77	113 ± 82; 84	55 ± 82; 82
Mn-54	1.0 ± 1.8; 1.8	2.4 ± 3.0; 3.0	0.2 ± 2.0; 2.0	-0.7 ± 1.3; 1.3
Fe-59	-2.5 ± 3.7; 3.7	-4.4 ± 7.3; 7.3	-4.3 ± 3.5; 3.5	-2.0 ± 2.4; 2.4
Co-58	-0.8 ± 1.8; 1.5	-1.4 ± 3.7; 3.4	-0.7 ± 1.5; 1.4	-0.6 ± 1.1; 1.2
Co-60	-0.4 ± 1.5; 1.8	-1.3 ± 3.4; 3.7	0.9 ± 1.4; 1.5	-1.8 ± 1.2; 1.1
Zn-65	-5.3 ± 4.9; 5.0	-3.8 ± 7.5; 7.5	-1.2 ± 4.0; 4.0	-1.1 ± 2.6; 2.6
Zr-95	2.6 ± 3.6; 3.6	3.8 ± 7.3; 7.3	0.6 ± 3.8; 3.8	-1.7 ± 2.9; 3.0
Nb-95	-1.5 ± 2.2; 2.2	-1.9 ± 3.9; 3.9	1.0 ± 1.7; 1.7	0.4 ± 1.2; 1.2
Cs-134	0.5 ± 2.1; 2.1	2.4 ± 4.0; 4.1	1.6 ± 2.2; 2.2	0.9 ± 1.3; 1.3
Cs-137	1.3 ± 2.5; 2.5	-1.6 ± 3.9; 3.9	-1.9 ± 2.2; 2.2	0.1 ± 1.2; 1.2
Ba-140	3.0 ± 8.4; 8.4	2.9 ± 13.6; 13.6	-8.6 ± 6.0; 6.2	-2.8 ± 4.6; 4.6
La-140	-1.5 ± 2.0; 2.1	-5.9 ± 3.9; 4.0	1.8 ± 1.4; 1.4	-0.7 ± 1.4; 1.5

BD-34 Well

Ex. 6

Date Collected	01-08-04	04-08-04	07-08-04	10-14-04
Lab Code	BDWW-158	BDWW-1564	BDWW-3584	BDWW-6054
H-3	20 ± 80; 80	43 ± 78; 79	134 ± 83; 85	-36 ± 77; 77
Mn-54	0.2 ± 1.6; 1.6	1.3 ± 1.9; 1.9	-1.8 ± 2.6; 2.6	1.0 ± 1.2; 1.2
Fe-59	-2.7 ± 3.0; 3.1	0.7 ± 3.4; 3.4	3.5 ± 5.5; 5.5	-0.6 ± 2.0; 2.0
Co-58	0.3 ± 1.6; 1.7	0.7 ± 1.7; 2.3	-0.9 ± 2.8; 3.4	-0.6 ± 1.2; 1.3
Co-60	-2.0 ± 1.7; 1.6	-0.7 ± 2.3; 1.7	-4.6 ± 3.4; 2.8	-0.3 ± 1.3; 1.2
Zn-65	-4.1 ± 4.0; 4.0	-6.6 ± 4.5; 4.6	1.2 ± 4.6; 4.6	-0.5 ± 2.8; 2.8
Zr-95	0.7 ± 3.9; 3.9	-1.7 ± 4.9; 4.9	2.2 ± 5.2; 5.2	-0.8 ± 2.7; 2.7
Nb-95	1.0 ± 2.1; 2.1	1.4 ± 2.2; 2.2	0.9 ± 2.9; 2.9	-1.5 ± 1.4; 1.4
Cs-134	-0.6 ± 2.2; 2.2	0.2 ± 2.3; 2.3	0.1 ± 3.4; 3.4	1.6 ± 1.5; 1.5
Cs-137	-2.2 ± 2.2; 2.2	1.0 ± 2.3; 2.3	0.5 ± 2.7; 2.7	0.8 ± 1.5; 1.5
Ba-140	9.0 ± 6.5; 6.6	-2.8 ± 8.5; 8.5	-12.6 ± 8.4; 8.6	-6.5 ± 4.9; 5.0
La-140	2.8 ± 1.9; 1.9	0.3 ± 2.3; 2.3	1.7 ± 3.6; 3.6	0.4 ± 1.4; 1.4

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Table 8. Well Water
 Collection: Quarterly
 ODCM-
 Required LLDs: H-3 = 200, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30,
 Zr-95 = 30, Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba-140 = 60, La-140 = 15 pCi/L
 Units: pCi/L

Sample Description and Concentration

	BD-35 Well			
Date Collected	01-08-04	04-08-04	07-08-04	10-14-04
Lab Code	BDWW-159	BDWW-1565	BDWW-3585	BDWW-6055
H-3	-1 ± 79; 79	20 ± 77; 77	158 ± 84; 87	2 ± 79; 79
Mn-54	-1.9 ± 3.6; 3.6	2.0 ± 3.7; 3.8	1.3 ± 2.5; 2.5	-0.0 ± 1.9; 1.9
Fe-59	0.8 ± 5.6; 5.6	7.2 ± 6.8; 6.9	0.3 ± 4.3; 4.3	0.4 ± 2.9; 2.9
Co-58	2.2 ± 3.7; 3.4	0.7 ± 3.9; 5.1	-1.0 ± 2.9; 3.0	-0.3 ± 1.5; 1.9
Co-60	3.2 ± 3.4; 3.7	7.0 ± 5.0; 3.9	-0.5 ± 3.0; 2.9	0.4 ± 1.9; 1.5
Zn-65	2.3 ± 7.7; 7.7	-7.5 ± 9.0; 9.1	-2.4 ± 5.2; 5.2	-0.2 ± 3.0; 3.0
Zr-95	3.3 ± 6.8; 6.8	2.8 ± 9.0; 9.1	-4.0 ± 6.6; 6.6	-3.7 ± 3.5; 3.6
Nb-95	1.5 ± 3.7; 3.7	-0.1 ± 4.2; 4.2	-5.3 ± 2.8; 2.9	0.2 ± 1.7; 1.7
Cs-134	-2.6 ± 3.4; 3.4	2.3 ± 4.2; 4.2	0.9 ± 3.4; 3.4	0.4 ± 2.0; 2.0
Cs-137	1.3 ± 3.3; 3.3	-1.6 ± 3.8; 3.8	-0.7 ± 3.2; 3.2	0.6 ± 1.9; 1.9
Ba-140	-5.0 ± 11.7; 11.7	-14.4 ± 12.5; 12.7	0.3 ± 8.9; 8.9	-9.2 ± 6.8; 6.9
La-140	-9.2 ± 5.3; 5.5	1.2 ± 4.4; 4.4	-2.5 ± 3.5; 3.5	-2.3 ± 1.8; 1.8

Ex. 6

	BD-36 Well			
Date Collected	01-08-04	04-08-04	07-08-04	10-14-04
Lab Code	BDWW-160	BDWW-1566,7	BDWW-3586	BDWW-6056
H-3	494 ± 100; 121	396 ± 66; 77	485 ± 98; 118	376 ± 95; 108
Mn-54	-0.5 ± 3.1; 3.1	0.1 ± 1.6; 1.6	-0.2 ± 1.5; 1.5	-0.7 ± 1.2; 1.2
Fe-59	1.9 ± 6.2; 6.2	1.6 ± 2.7; 2.7	0.1 ± 2.5; 2.5	-3.0 ± 1.9; 2.0
Co-58	-3.0 ± 2.7; 3.7	-0.8 ± 1.5; 1.6	-0.3 ± 1.3; 1.4	0.2 ± 1.1; 1.1
Co-60	-2.6 ± 3.7; 2.7	2.2 ± 1.5; 1.5	-0.2 ± 1.4; 1.3	1.6 ± 1.1; 1.1
Zn-65	1.5 ± 7.8; 7.8	-10.0 ± 4.4; 4.6	3.1 ± 3.0; 3.0	-0.5 ± 2.1; 2.1
Zr-95	-0.8 ± 7.3; 7.3	-1.8 ± 3.4; 3.4	-2.4 ± 2.9; 2.9	1.3 ± 2.6; 2.6
Nb-95	0.1 ± 3.1; 3.1	-1.0 ± 1.9; 2.0	0.5 ± 1.3; 1.3	-0.2 ± 1.3; 1.3
Cs-134	0.3 ± 3.2; 3.2	-1.3 ± 1.6; 1.6	1.5 ± 1.4; 1.4	-0.0 ± 1.2; 1.2
Cs-137	-1.3 ± 3.3; 3.3	0.2 ± 1.6; 1.6	-0.3 ± 1.5; 1.5	-0.0 ± 1.3; 1.3
Ba-140	22.0 ± 11.2; 11.6	-3.8 ± 6.1; 6.1	-2.6 ± 4.8; 4.9	6.8 ± 4.5; 4.6
La-140	6.7 ± 4.6; 4.7	-0.8 ± 1.8; 1.8	-4.4 ± 1.6; 1.7	-1.3 ± 1.3; 1.4

Ex 6

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Table 8. Well Water
 Collection: Quarterly
 ODCM-
 Required LLDs: H-3 = 200, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15, Zn-65 = 30,
 Zr-95 = 30, Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba-140 = 60, La-140 = 15 pCi/L
 Units: pCi/L

Sample Description and Concentration

Date Collected	BD-37 Well			
	01-15-04	04-15-04	07-08-04	10-14-04
Lab Code	BDWW-248*	BDWW-1690†	BDWW-3587	BDWW-6057
H-3	-15 ± 78; 78	45 ± 78; 79	103 ± 82; 83	29 ± 80; 80
Mn-54	-0.3 ± 3.3 ; 3.3	-0.9 ± 3.8 ; 3.8	0.2 ± 2.0 ; 2.0	-0.4 ± 1.9 ; 1.9
Fe-59	1.7 ± 5.7 ; 5.7	-0.4 ± 5.9 ; 5.9	-0.7 ± 3.9 ; 3.9	2.7 ± 3.5 ; 3.5
Co-58	1.1 ± 3.4 ; 4.0	-4.2 ± 3.5 ; 3.6	-1.2 ± 1.7 ; 1.8	0.3 ± 1.9 ; 2.0
Co-60	1.6 ± 4.0 ; 3.4	4.1 ± 3.5 ; 3.6	2.3 ± 1.8 ; 1.7	4.1 ± 1.9 ; 1.9
Zn-65	-0.3 ± 7.6 ; 7.6	-3.4 ± 7.8 ; 7.9	-0.2 ± 4.0 ; 4.0	-1.7 ± 4.3 ; 4.3
Zr-95	-4.0 ± 7.9 ; 8.0	3.1 ± 7.9 ; 7.9	-3.6 ± 3.9 ; 4.0	-1.3 ± 4.7 ; 4.7
Nb-95	1.7 ± 3.1 ; 3.1	-1.1 ± 3.7 ; 3.7	-2.7 ± 1.8 ; 1.8	2.1 ± 1.9 ; 1.9
Cs-134	0.1 ± 3.6 ; 3.6	-0.3 ± 3.8 ; 3.8	1.6 ± 2.2 ; 2.2	-0.6 ± 2.3 ; 2.3
Cs-137	1.4 ± 3.5 ; 3.5	1.0 ± 3.2 ; 3.2	1.8 ± 2.1 ; 2.1	0.7 ± 2.3 ; 2.3
Ba-140	8.0 ± 10.8 ; 10.9	2.5 ± 11.7 ; 11.7	1.1 ± 6.0 ; 6.0	10.5 ± 7.4 ; 7.6
La-140	-0.9 ± 4.0 ; 4.0	4.3 ± 4.4 ; 4.4	2.3 ± 2.5 ; 2.5	-0.4 ± 2.3 ; 2.3

Ex. 6

* Unable to collect on scheduled date of 01-08-04; owner not home.

† Unable to collect on scheduled date of 04-08-04; owner not home.

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Table 9. Public Water
 Collection: Monthly composites of weekly collections
 ODCM- Gross Beta = 4, H-3 = 200, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15,
 Required LLDs: Zn-65 = 30, Zr-95 = 30, Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba-140 = 60, La-140
 Units: pCi/L

Sample Description and Concentration

BD-22 Wilmington

2004 Collection Period	January	February	March
Lab Code	BDPW-391	BDPW-812	BDPW-1243
Gross Beta	1.7 ± 1.0 ; 1.1	2.0 ± 1.2 ; 1.3	3.3 ± 1.0 ; 1.1
H-3	383 ± 97 ; 110	432 ± 99 ; 115	219 ± 90 ; 94
Mn-54	0.7 ± 2.8 ; 2.8	2.1 ± 1.7 ; 1.7	1.8 ± 3.5 ; 3.5
Fe-59	-4.5 ± 5.6 ; 5.6	-1.5 ± 3.9 ; 4.0	1.5 ± 4.9 ; 4.9
Co-58	-0.8 ± 2.6 ; 2.6	-0.6 ± 1.8 ; 1.8	0.2 ± 3.8 ; 3.8
Co-60	5.6 ± 3.4 ; 3.4	0.4 ± 1.9 ; 1.9	-2.6 ± 3.9 ; 3.9
Zn-65	0.6 ± 4.0 ; 4.0	-3.1 ± 5.4 ; 5.5	3.0 ± 6.9 ; 6.9
Zr-95	-1.2 ± 6.5 ; 6.5	-0.7 ± 4.7 ; 4.7	-5.9 ± 7.9 ; 7.9
Nb-95	-1.0 ± 3.1 ; 3.1	1.2 ± 1.9 ; 1.9	0.2 ± 3.3 ; 3.3
Cs-134	1.6 ± 3.1 ; 3.1	-0.4 ± 2.2 ; 2.2	-0.3 ± 3.8 ; 3.8
Cs-137	1.0 ± 2.7 ; 2.7	-1.3 ± 2.2 ; 2.2	3.4 ± 3.8 ; 3.9
Ba-140	-3.8 ± 9.2 ; 9.2	-4.2 ± 8.3 ; 8.3	-4.6 ± 11.3 ; 11.3
La-140	-0.8 ± 2.7 ; 2.7	-1.0 ± 2.3 ; 2.3	-2.8 ± 3.0 ; 3.0
2004 Collection Period	April	May	June
Lab Code	BDPW-2129	BDPW-2748,9	BDPW-3445
Gross Beta	2.4 ± 0.9 ; 1.0	2.3 ± 0.7 ; 0.7	3.3 ± 1.0 ; 1.1
H-3	56 ± 84 ; 84	117 ± 62 ; 63	42 ± 80 ; 81
Mn-54	-1.6 ± 3.6 ; 3.6	-0.9 ± 2.5 ; 2.5	1.0 ± 2.6 ; 2.6
Fe-59	-8.9 ± 7.1 ; 7.2	-2.1 ± 3.8 ; 3.8	2.9 ± 4.9 ; 5.0
Co-58	1.2 ± 3.3 ; 3.3	-2.0 ± 2.1 ; 2.1	0.3 ± 3.3 ; 3.3
Co-60	2.0 ± 3.4 ; 3.5	-0.3 ± 2.5 ; 2.5	-0.9 ± 3.1 ; 3.1
Zn-65	0.8 ± 7.2 ; 7.2	0.4 ± 4.8 ; 4.8	-4.6 ± 7.0 ; 7.0
Zr-95	-3.1 ± 7.0 ; 7.0	3.1 ± 4.8 ; 4.8	0.5 ± 7.6 ; 7.6
Nb-95	0.2 ± 3.3 ; 3.3	-1.0 ± 2.1 ; 2.1	0.9 ± 2.7 ; 2.7
Cs-134	-1.5 ± 3.4 ; 3.4	-0.5 ± 2.6 ; 2.6	-1.5 ± 3.3 ; 3.3
Cs-137	0.3 ± 3.5 ; 3.5	0.8 ± 2.5 ; 2.5	1.8 ± 2.9 ; 2.9
Ba-140	1.4 ± 11.6 ; 11.6	5.2 ± 7.4 ; 7.5	-10.2 ± 9.9 ; 10.0
La-140	-4.2 ± 4.4 ; 4.5	-1.7 ± 2.3 ; 2.3	-6.0 ± 4.2 ; 4.3

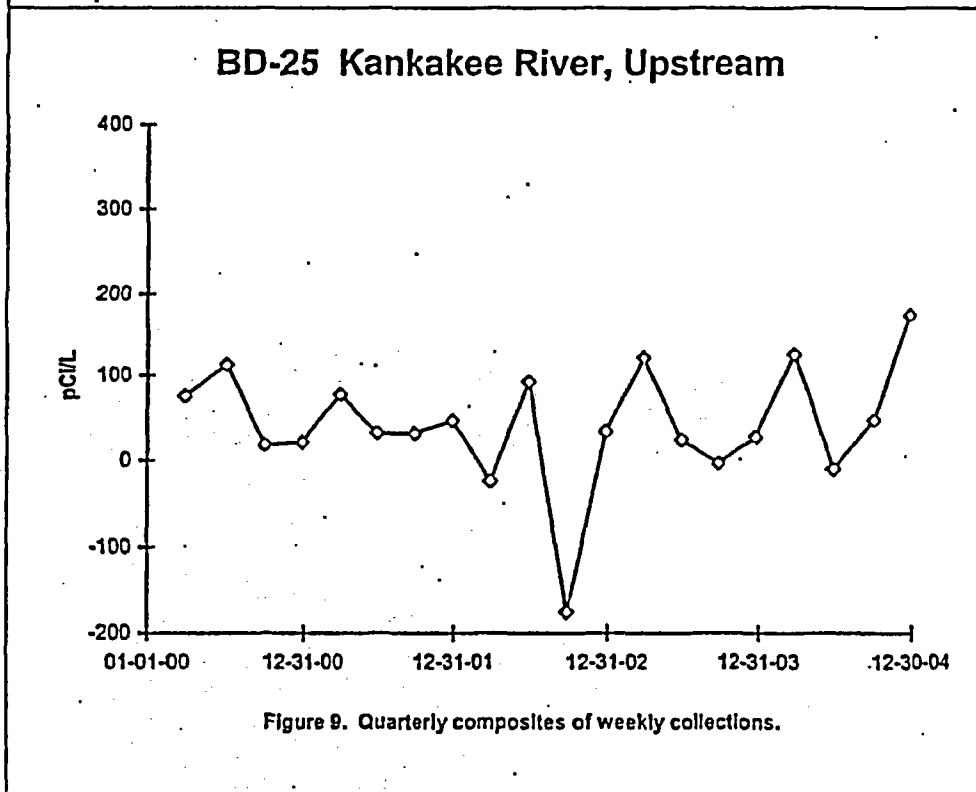
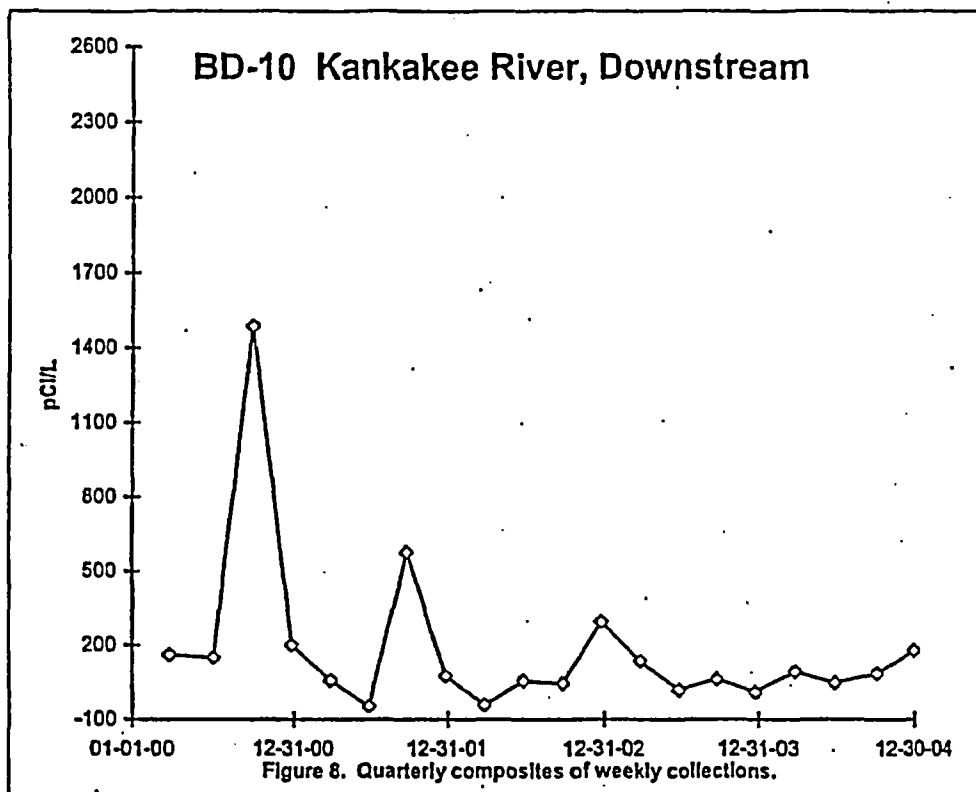
BRAIDWOOD

Table 9. Public Water

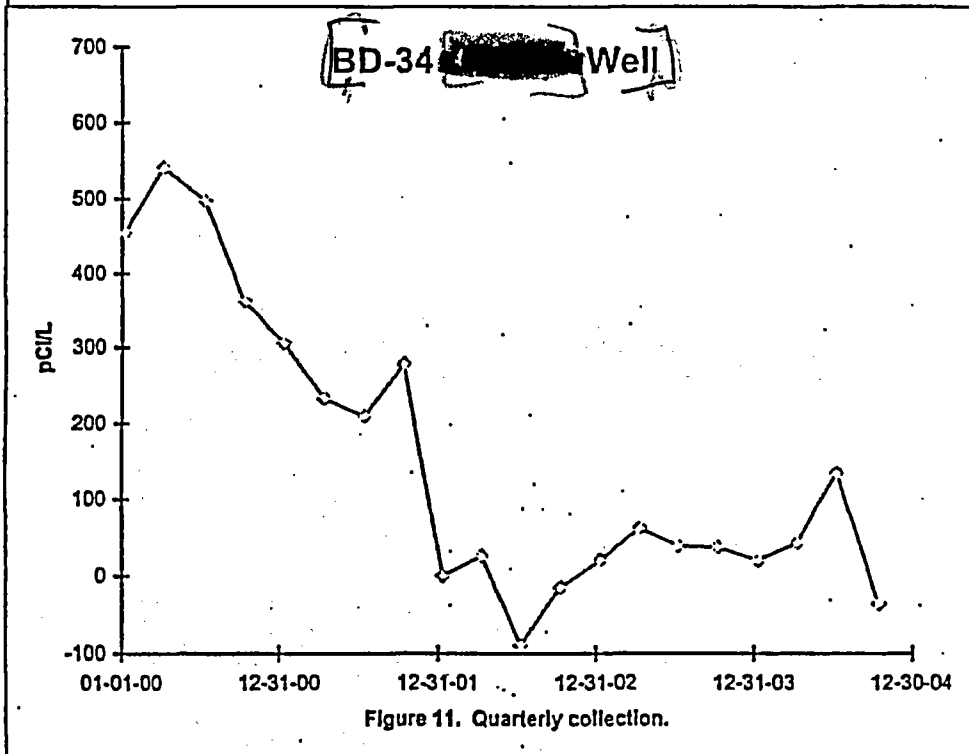
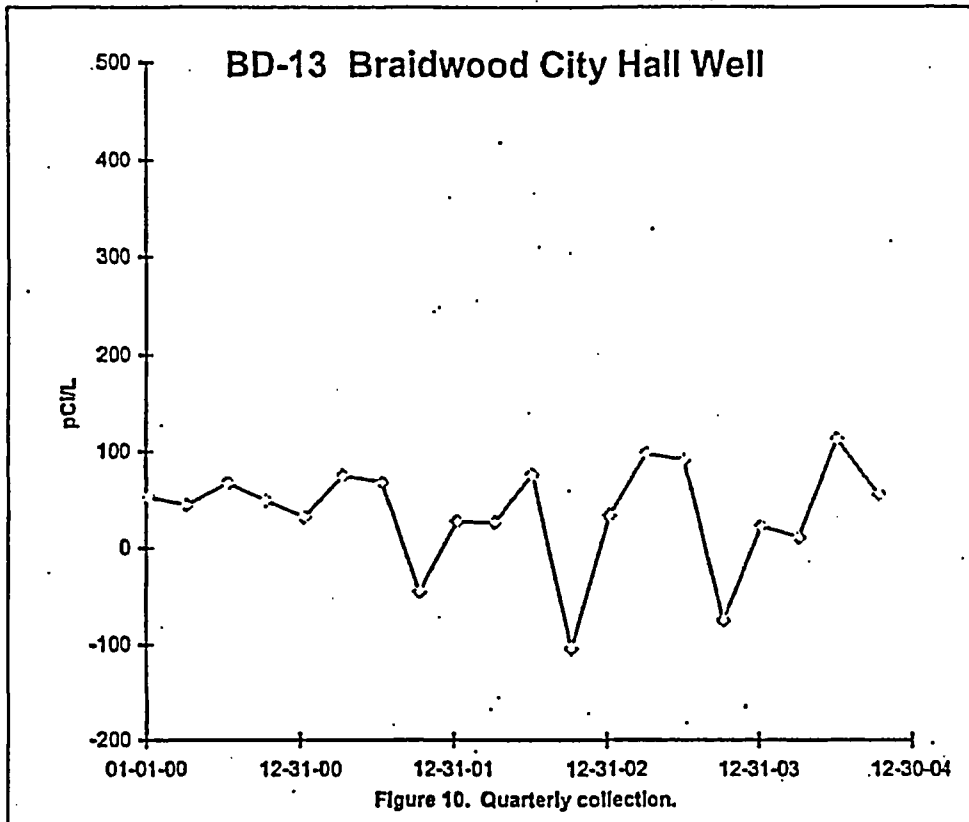
Collection: Monthly composites of weekly collections
 ODCM- Gross Beta = 4, H-3 = 200, Mn-54 = 15, Fe-59 = 30, Co-58 = 15, Co-60 = 15,
 Required LLDs: Zn-65 = 30, Zr-95 = 30, Nb-95 = 15, Cs-134 = 15, Cs-137 = 18, Ba-140 = 60, La-140
 Units: pCi/L

Sample Description and Concentration				
BD-22 Wilmington				
2004 Collection Period	July	August	September	
Lab Code	BDPW-4433	BDPW-5021	BDPW-5583	
Gross Beta	1.5 ± 1.1 ; 1.1	3.3 ± 1.1 ; 1.3	2.8 ± 1.1 ; 1.1	
H-3	685 ± 105 ; 141	1,903 ± 144 ; 296	3,144 ± 176 ; 463	
Mn-54	-0.1 ± 2.1 ; 2.1	-0.3 ± 1.8 ; 1.8	-0.6 ± 2.0 ; 2.0	
Fe-59	2.4 ± 4.3 ; 4.3	0.5 ± 3.2 ; 3.2	-3.4 ± 3.4 ; 3.5	
Co-58	-0.4 ± 2.2 ; 2.2	-0.5 ± 1.9 ; 1.9	-0.4 ± 2.1 ; 2.1	
Co-60	3.3 ± 2.8 ; 2.9	-2.1 ± 1.3 ; 1.3	-2.9 ± 2.6 ; 2.6	
Zn-65	0.2 ± 3.9 ; 3.9	1.0 ± 4.5 ; 4.5	0.2 ± 4.0 ; 4.0	
Zr-95	-2.4 ± 4.7 ; 4.7	2.4 ± 4.0 ; 4.0	-0.7 ± 4.2 ; 4.2	
Nb-95	-0.2 ± 2.2 ; 2.2	1.3 ± 2.0 ; 2.0	-1.3 ± 1.8 ; 1.8	
Cs-134	-1.8 ± 2.9 ; 2.9	-2.0 ± 2.0 ; 2.1	-0.5 ± 2.2 ; 2.2	
Cs-137	1.4 ± 2.9 ; 2.9	-0.3 ± 2.1 ; 2.1	-2.0 ± 2.1 ; 2.2	
Ba-140	5.5 ± 9.8 ; 9.8	2.2 ± 8.1 ; 8.1	14.7 ± 7.3 ; 7.6	
La-140	2.0 ± 2.9 ; 2.9	-1.9 ± 2.2 ; 2.2	2.1 ± 2.2 ; 2.2	
2004 Collection Period	October	November	December	
Lab Code	BDPW-6590	BDPW-7148	BDPW-7604	
Gross Beta	3.7 ± 1.0 ; 1.2	3.0 ± 1.0 ; 1.1	2.6 ± 1.3 ; 1.3	
H-3	2,743 ± 156 ; 404	364 ± 101 ; 112	152 ± 89 ; 92	
Mn-54	-1.2 ± 1.6 ; 1.6	2.0 ± 2.6 ; 2.6	0.4 ± 1.8 ; 1.8	
Fe-59	0.2 ± 2.6 ; 2.6	-5.3 ± 4.4 ; 4.4	1.3 ± 2.9 ; 2.9	
Co-58	-0.4 ± 1.5 ; 1.5	-0.1 ± 2.6 ; 2.6	1.4 ± 1.5 ; 1.5	
Co-60	1.1 ± 1.7 ; 1.8	-2.3 ± 4.0 ; 4.0	1.1 ± 1.9 ; 1.9	
Zn-65	-1.8 ± 3.6 ; 3.6	1.9 ± 5.3 ; 5.3	-1.1 ± 3.3 ; 3.4	
Zr-95	0.2 ± 3.6 ; 3.6	1.1 ± 6.0 ; 6.0	-1.0 ± 4.2 ; 4.2	
Nb-95	-2.7 ± 1.8 ; 1.8	-1.6 ± 3.1 ; 3.1	1.8 ± 1.9 ; 1.9	
Cs-134	-0.8 ± 2.0 ; 2.0	1.7 ± 3.4 ; 3.4	0.1 ± 1.8 ; 1.8	
Cs-137	1.0 ± 1.9 ; 1.9	2.7 ± 2.9 ; 2.9	0.3 ± 1.8 ; 1.8	
Ba-140	-0.7 ± 6.1 ; 6.1	-4.4 ± 9.9 ; 10.0	5.9 ± 6.0 ; 6.0	
La-140	-4.8 ± 2.2 ; 2.3	0.6 ± 3.4 ; 3.4	-1.9 ± 2.0 ; 2.0	

Surface Water-Tritium



Well Water-Tritium



Ex. 6

Well Water-Tritium

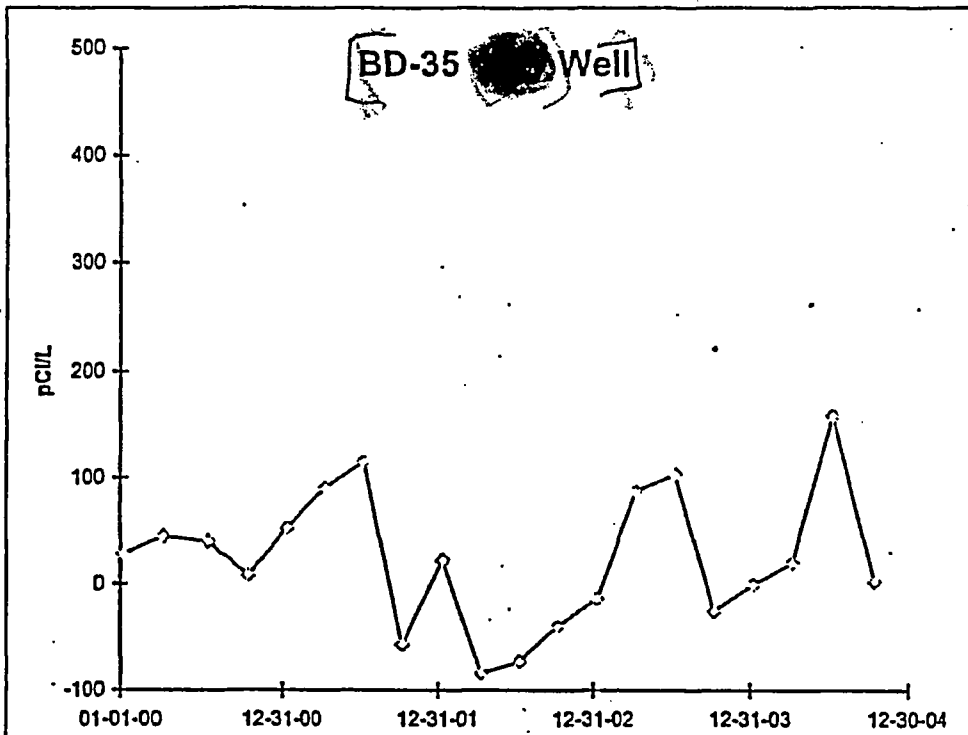


Figure 12. Quarterly collection.

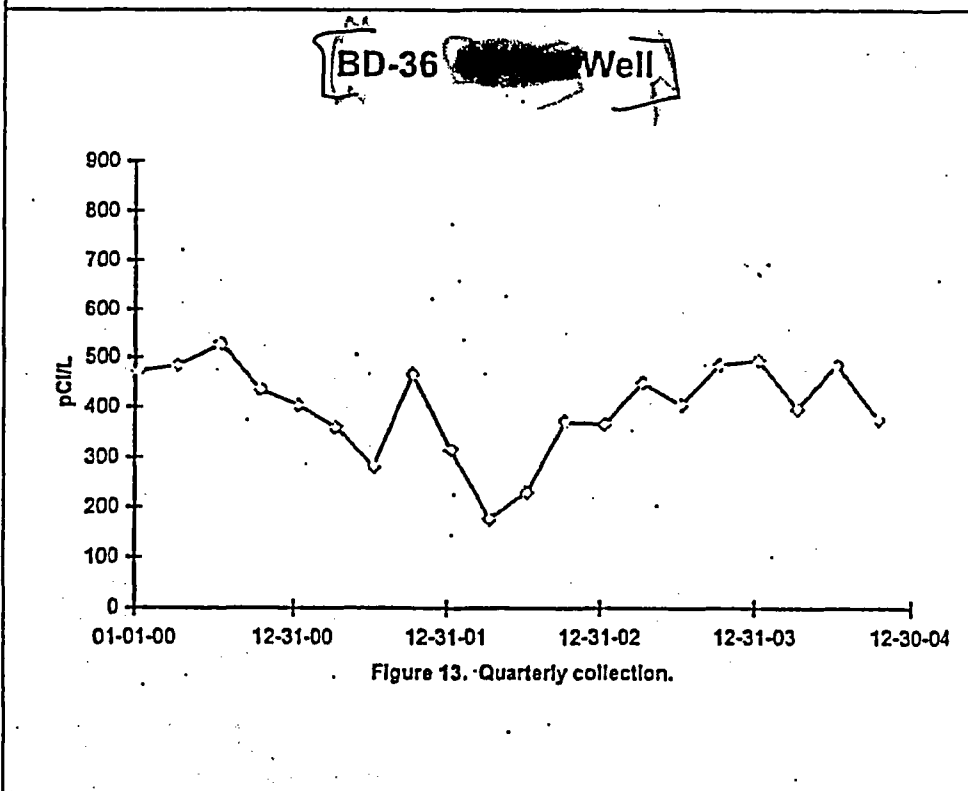
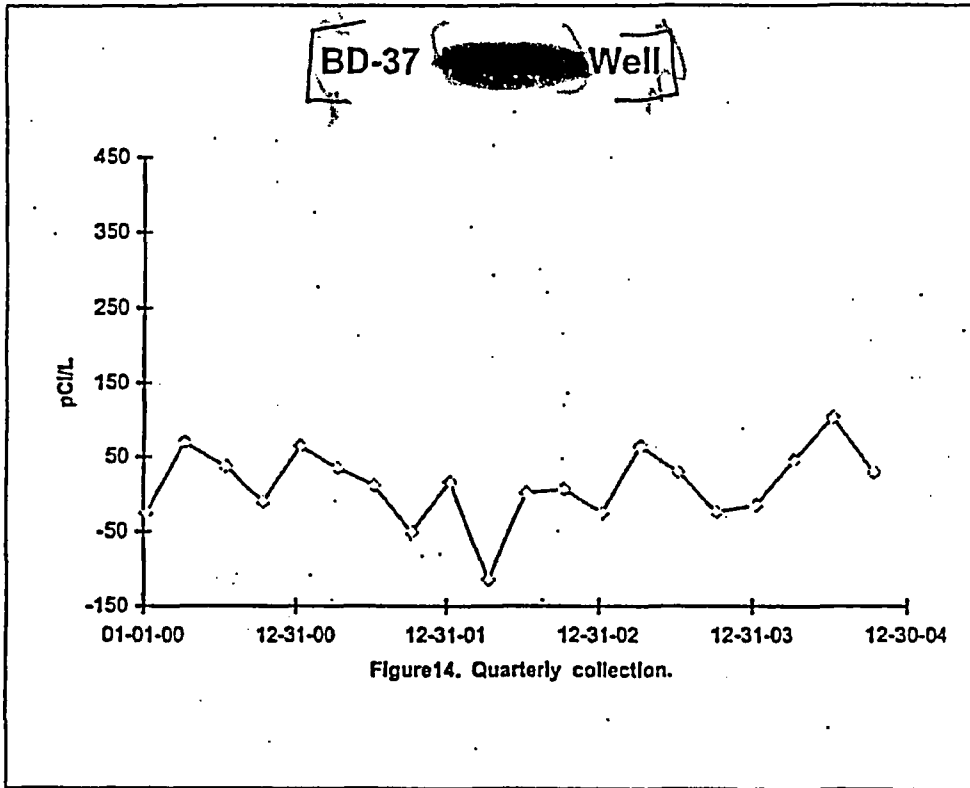


Figure 13. Quarterly collection.

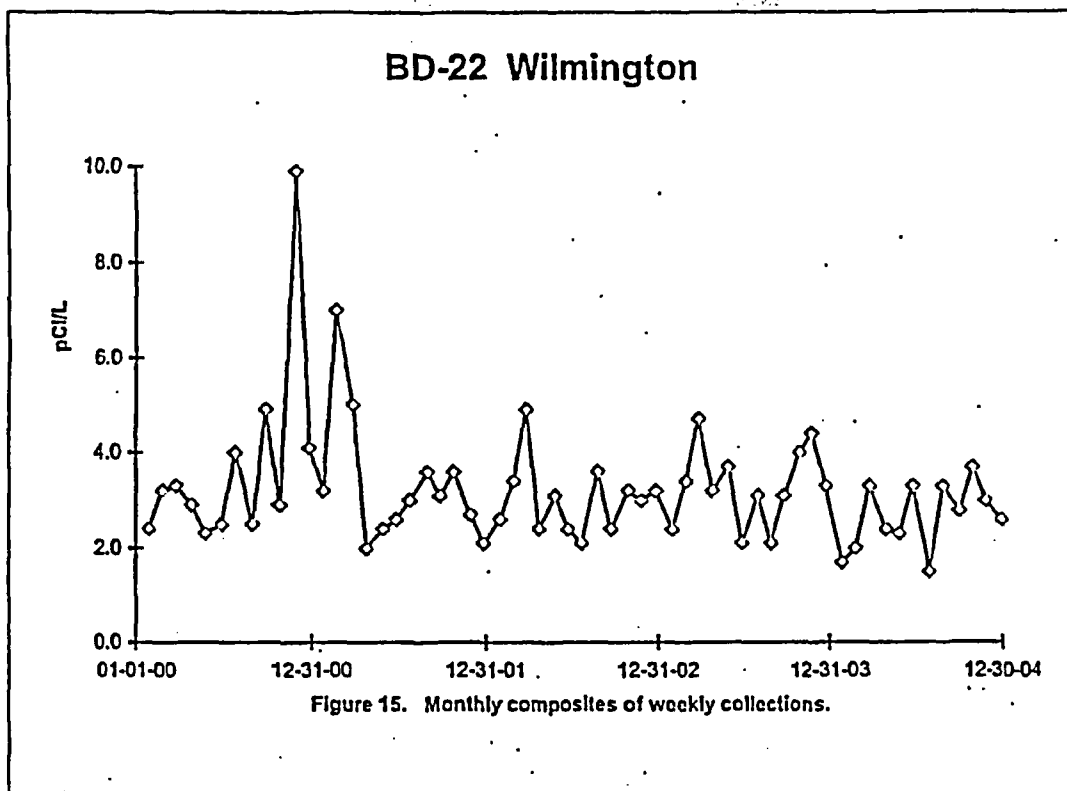
Ex. 6

Well Water-Tritium

Ex. 6



Public Water - Gross Beta



Public Water-Tritium

