Annual Radiological Environmental Operating Report

Watts Bar
Nuclear Plant
1995

ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT
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TENNESSEE VALLEY AUTHORITY

ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION

April 1996

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EXECUTIVE SUMMARY

This report describes the preoperational radiological environmental monitoring program conducted by TVA in the vicinity of the Watts Bar Nuclear Plant (WBN) in 1995. The program includes the collection of samples from the environment and the determination of the concentrations of radioactive materials in the samples. Samples are taken from stations in the general area of the plant and from areas that will not be influenced by plant operations. Station locations are selected after careful consideration of the weather patterns and projected radiation doses to the various areas around the plant. Material sampled includes air, water, milk, foods, vegetation, soil, fish, sediment, and direct radiation levels. During plant operations, results from stations near the plant will be compared with concentrations from control stations and with preoperational measurements to determine potential impacts to the public.

Exposures calculated from environmental samples were contributed by naturally occurring radioactive materials, from materials commonly found in the environment as a result of atmospheric fallout, or from the operation of other nuclear facilities in the area. Since WBN has not operated before or during this reporting period, there has been no contribution of radioactivity from the plant to the environment.

INTRODUCTION

This report describes and summarizes the results of radioactivity measurements made in the vicinity of WBN and laboratory analyses of samples collected in the area. The measurements are made to determine the existing background radioactivity levels in the area of WBN and to comply with the requirements of 10 CFR 50, Appendix A, Criterion 64 and 10 CFR 50, Appendix I, Section IV.B. This report satisfies the annual reporting requirements of WBN Technical Specification 5.9.2 and Offsite Dose Calculation Manual (ODCM) Control 5.1. The requirements for the Radiological Environmental Monitoring Program (REMP) are outlined in Control 1.3.1 of the ODCM and the program is described in Section 9 of the ODCM. Some of the data presented are prescribed by specific requirements, while other data are included which may be useful or interesting to individuals who do not work with this material routinely.

Naturally Occurring and Background Radioactivity

Most materials in our world today contain trace amounts of naturally occurring radioactivity. Approximately 0.01 percent of all potassium is radioactive potassium-40. Potassium-40 (K-40), with a half-life of 1.3 billion years, is one of the major types of radioactive materials found naturally in our environment. An individual weighing 150 pounds contains about 140 grams of potassium (Reference 1). This is equivalent to approximately 100,000 pCi of K-40 which delivers a dose of 15 to 20 mrem per year to the bone and soft tissue of the body. Naturally occurring radioactive materials have always been in the environment. Other examples of naturally occurring radioactive materials are beryllium (Be)-7, bismuth (Bi)-212 and 214, lead (Pb)-212 and 214, thallium (Tl)-208, actinium (Ac)-228, uranium (U)-238, uranium-235, thorium (Th)-234, radium (Ra)-226, radon (Rn)-222, carbon (C)-14, and hydrogen (H)-3 (generally called tritium). These naturally occurring radioactive materials are in the soil, our food, our drinking water, and our bodies. The radiation from these materials makes up a part of the low-level natural background radiation. The remainder of the natural background radiation comes from outer space. We are all exposed to this natural radiation 24 hours per day.

The average dose equivalent at sea level resulting from radiation from outer space (part of natural background radiation) is about 27 mrem/year. This essentially doubles with each 6600-foot increase in altitude in the lower atmosphere. Another part of natural background radiation comes from naturally occurring radioactive materials in the soil and rocks. Because the quantity of naturally occurring radioactive material varies according to geographical location, the part of the natural background radiation coming from this radioactive material also depends upon the geographical location. Most of the remainder of the natural background radiation comes from the radioactive materials within each individual's body. We absorb these materials from the food we eat which contains naturally occurring radioactive materials from the soil. An example of this is K-40 as described above. Even building materials affect the natural background radiation levels in the environment. Living or working in a building which is largely made of earthen material, such as concrete or brick, will generally result in a higher natural background radiation level than would exist if the same structure were made of wood. This is due to the naturally occurring radioisotopes in the concrete or brick, such as trace amounts of uranium, radium, thorium, etc.

Because the city of Denver, Colorado, is over 5000 feet in altitude and the soil and rocks there contain more radioactive material than the U.S. average, the people of Denver receive around 350 mrem/year total natural background radiation dose equivalent compared to about 295 mrem/year for the national average. People in some locations of the world receive over 1000 mrem/year natural background radiation dose equivalent, primarily because of the greater quantity of radioactive materials in the soil and rocks in those locations. Scientists have never been able to show that these levels of radiation have caused harmful effects to anyone.

It is possible to get an idea of the relative hazard of different types of radiation sources by evaluating the amount of radiation the U.S. population receives from each general type of radiation source. The information below is primarily adapted from References 2 and 3.

U.S. GENERAL POPULATION AVERAGE DOSE EQUIVALENT ESTIMATES

Source		Millirem/Year Per Person
Natural background dose equivalent		
Cosmic	27	
Cosmogenic	1	
Terrestrial	28	
In the body	39	
Radon	200	
Total		295
Release of radioactive material in natural gas, mining, ore processing, etc.		5
Medical (effective dose equivalent)		53
Nuclear weapons fallout		less than 1
Nuclear energy		0.28
Consumer products		0.03
Total		355 (approximately)

As can be seen from the table, natural background radiation dose equivalent to the U.S. population normally exceeds that from nuclear plants by several hundred times. This indicates that nuclear plant operations normally result in a population radiation dose equivalent which is insignificant compared to that which results from natural background radiation. It should be noted that the use of radiation and radioactive materials for medical uses has resulted in a similar effective dose equivalent to the U.S. population as that caused by natural background cosmic and terrestrial radiation.

Significant discussion recently has centered around exposures from radon. Radon is an inert gas given off as a result of the decay of naturally occurring Ra-226 in soil. When dispersed in

the atmosphere, radon concentrations are relatively low. However, when the gas is trapped in closed spaces, it can build up until concentrations become significant. The National Council of Radiation Protection and Measurements (Reference 2) has estimated that the average annual effective dose equivalent from radon in the United States is approximately 200 mrem/year. This estimated dose is approximately twice the average dose equivalent from all other natural background sources.

Electric Power Production

Nuclear power plants are similar in many respects to conventional coal burning (or other fossil fuel) electrical generating plants. The basic process behind electrical power production in both types of plants is that fuel is used to heat water to produce steam which provides the force to turn turbines and generators. However, nuclear plants include many complex systems to control the nuclear fission process and to safeguard against the possibility of reactor malfunction, which could lead to the release of radioactive materials. Very small amounts of these fission and activation products are released into the plant systems. This radioactive material can be transported throughout plant systems and some of it released to the environment.

Paths through which radioactivity from a nuclear power plant is routinely released are monitored. Liquid and gaseous effluent monitors record the radiation levels for each release. These monitors also provide alarm mechanisms to prompt termination of any release above limits.

At WBN releases will be monitored at the onsite points of release and through the radiological environmental monitoring program which will measure the environmental radiation in outlying areas around the plant. In this way, not only will the release of radioactive materials from the plant be tightly controlled, but measurements will be made in surrounding areas to verify that the population will not be exposed to significant levels of radiation or radioactive materials.

Appendix B to 10 CFR 20 presents annual average limits for the concentrations of radioactive materials released in gaseous and liquid effluents at the boundary of the unrestricted areas. Table 1 of this report presents the annual average concentration limits for the principal radionuclides associated with nuclear power plant effluents. The table also presents (1) the concentrations of radioactive materials in the environment which would require a special report to the NRC and (2) the detection limits for measured radionuclides. It should be noted that the levels of radioactive materials measured in the environment are typically below or only slightly above the lower limit of detection.

SITE/PLANT DESCRIPTION

The WBN site is located in Rhea county, Tennessee, on the west bank of the Tennessee River at Tennessee River Mile (TRM) 528. Figure 1 shows the site in relation to other TVA projects. The WBN site, containing approximately 1770 acres on Chickamauga Lake, is about 1.25 miles south of the Watts Bar Dam and approximately 31 miles north-northeast of TVA's Sequoyah Nuclear Plant (SQN) site. Also located within the reservation are the Watts Bar Dam and Hydro-Electric Plant, the Watts Bar Steam Plant, and the Watts Bar Resort Area.

Approximately 16,000 people live within 10 miles of the WBN site. More than 80 percent of these live between 5 and 10 miles from the site. Two small towns, Spring City and Decatur, are located in this area. Spring City, with a population of approximately 2,200, is northwest and north-northwest from the site, while Decatur, with about 1,400 people, is south and south-southwest from the plant. The remainder of the area within 10 miles of the site is sparsely populated, consisting primarily of small farms.

The area between 10 and 50 miles from the site includes portions of the cities of Chattanooga and Knoxville. The largest urban concentration in this area is the city of Chattanooga, located to the southwest and south-southwest. The city of Chattanooga has a population of about 160,000, with approximately 80 percent located between 40 and 50 miles from the site and the remainder located beyond 50 miles. The city of Knoxville is located to the east-northeast, with not more than 10 percent of its 165,000 plus people living within 50 miles of the site. Three smaller urban areas of greater than 20,000 people are located between 30 and 40 miles from the site. Oak Ridge is approximately 40 miles to the northeast, the twin cities of Alcoa and Maryville are located 45 to 50 miles to the east-northeast, and Cleveland is located about 30 miles to the south.

Chickamauga Reservoir, on which WBN is located, is one of a series of highly controlled multiple-use reservoirs whose primary uses are flood control, navigation, and the generation of electric power. Secondary uses include industrial and public water supply and waste disposal, commercial fishing, and

recreation. Public access areas, boat docks, and residential subdivisions have been developed along the reservoir shoreline in scattered locations.

WBN consists of two pressurized water reactors: each unit is rated at 1160 megawatts (electrical). WBN unit 1 received a low power operating license (NPF-20) on November 9, 1995.

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Most of the radiation and radioactivity generated in a nuclear power reactor is contained within the reactor itself or one of the other plant systems. Plant effluent monitors are designed to detect the small amounts released to the environment. Environmental monitoring is a final verification that the systems are performing as planned. The monitoring program is designed to most efficiently monitor the pathways between the plant and the people in the immediate vicinity of the plant. Sample types are chosen so that the potential for detection of radioactivity in the environment will be maximized. The Radiological Environmental Monitoring Program (REMP) for WBN is outlined in Appendix A.

There are two primary pathways by which radioactivity can move through the environment to humans: air and water (see Figure 2). The air pathway can be separated into two components: the direct (airborne) pathway and the indirect (ground or terrestrial) pathway. The direct airborne pathway consists of direct radiation and inhalation by humans. In the terrestrial pathway, radioactive materials may be deposited on the ground or on plants and subsequently ingested by animals and/or humans. Human exposure through the liquid pathway may result from drinking water, eating fish, or by direct exposure at the shoreline. The types of samples collected in this program are designed to monitor these pathways.

A number of factors were considered in determining the locations for collecting environmental samples. The locations for the atmospheric monitoring stations were determined from a critical pathway analysis based on weather patterns, dose projections, population distribution, and land use. Terrestrial sampling stations were selected after reviewing such things as the locations of dairy animals and gardens in conjunction with the air pathway analysis. Liquid pathway stations were selected based on dose projections, water use information, and availability of media such as fish and sediment. Table A-2 (Appendix A, Table 2: This identification system is used for all tables and figures given in the appendices.) lists the sampling stations and the types of samples collected from each. Modifications made to the program in 1995 are described in Appendix B and exceptions to the sampling and analysis schedule are presented in Appendix C.

To determine the amount of radioactivity in the environment prior to the operation of WBN, a preoperational radiological environmental monitoring program was initiated in December 1976 and operated through December 31, 1995. Measurements of the same types of radioactive materials that are expected from an operating plant are assessed during the preoperational phase to establish normal background levels for various radionuclides in the environment.

The preoperational monitoring program is a very important part of the overall program. During the 1950s, 60s, and 70s, atmospheric nuclear weapons testing released radioactive material to the environment causing fluctuations in background radiation levels. This radioactive material is the same type as that which will be produced by the operation of the WBN reactors. Preoperational knowledge of preexisting radionuclide patterns in the environment will permit a determination, through comparison and trending analyses, of whether the operation of WBN is impacting the environment and thus the surrounding population. The determination of impact during the operating phase also considers the presence of control stations that have been established in the environment. Results of environmental samples taken at control stations (far from the plant) will be compared with those from indicator stations (near the plant) to aid in the determination of the impacts from WBN after the plant becomes operational.

All samples are analyzed by the radioanalytical laboratory of TVA's Environmental Radiological Monitoring and Instrumentation group located at the Western Area Radiological Laboratory (WARL) in Muscle Shoals, Alabama. Analyses are conducted in accordance with written and approved procedures and are based on accepted methods. A summary of the analysis techniques and methodology is presented in Appendix D. Data tables summarizing the sample analysis results are presented in Appendix H. A listing of the results of the analyses of all radiological environmental samples and of all environmental radiation measurements taken during 1995 are presented in the Data Supplement to this report.

The radiation detection devices used to determine the radionuclide content of samples collected in the environment are generally quite sensitive to small amounts of radioactivity. The sensitivity of the measurement process is defined in terms of the lower limit of detection (LLD).

A description of the nominal LLDs for the Radioanalytical Laboratory is presented in Appendix E.

The Radioanalytical Laboratory employs a comprehensive quality assurance/quality control program to monitor laboratory performance throughout the year. The program is intended to detect any problems in the measurement process as soon as possible so they can be corrected. This program includes equipment checks to ensure that the radiation detection instruments are working properly and the analysis of special samples which are included alongside routine environmental samples. The laboratory participates in the Environmental Protection Agency (EPA) Interlaboratory Comparison Program. In addition, samples split with the EPA National Air and Radiation Environmental Laboratory and with the State of Tennessee provide an independent verification of the overall performance of the laboratory. A complete description of the program is presented in Appendix F.

DIRECT RADIATION MONITORING

Direct radiation levels are measured at a number of stations around the plant site. These measurements include contributions from cosmic radiation, radioactivity in the ground, fallout from atmospheric nuclear weapons tests conducted in the past, and any radioactivity that may be present as a result of plant operations. Because of the relatively large variations in background radiation as compared to the small levels from the plant, contributions from the plant may be difficult to distinguish.

Radiation levels measured in the area around the WBN site in 1995 were consistent with levels from previous years and with levels measured at other locations in the region.

Measurement Techniques

Direct radiation measurements are made with thermoluminescent dosimeters (TLDs). When certain materials are exposed to ionizing radiation, many of the electrons which become displaced are trapped in the crystalline structure of the material. They remain trapped for long periods of time as long as the material is not heated. When heated (thermo-), the electrons are released, producing a pulse of light (-luminescence). The intensity of the light pulse is proportional to the amount of radiation to which the material was exposed. Materials which display these characteristics are used in the manufacture of TLDs.

From 1977 through 1989, TVA used a Victoreen dosimeter consisting of a manganese activated calcium fluoride (Ca_2F:Mn) TLD material encased in a glass bulb. In 1989, TVA began the process of changing from the Victoreen dosimeter to the Panasonic Model UD-814 dosimeter, and completely changed to the Panasonic dosimeter in 1990. This dosimeter contains four elements consisting of one lithium borate and three calcium sulfate phosphors. The calcium sulfate phosphors are shielded by approximately 1000 mg/cm^2 plastic and lead to compensate for the over-response of the detector to low energy radiation.

The TLDs are placed approximately one meter above the ground, with three TLDs at each

station. Sixteen stations are located around the plant near the site boundary, one station in each of the 16 compass sectors. An additional 16 stations are located approximately 5 miles from the plant in each of the 16 sectors. Dosimeters are also placed at the perimeter and remote air monitoring sites and at six additional stations out to approximately 32 miles from the site. The TLDs are exchanged every 3 months and the accumulated exposure on the detectors is read with a Panasonic Model UD-710A automatic reader interfaced with a Hewlett Packard Model 9000 computer system. Eight of the locations also have TLD devices which are processed by the NRC. The results from the NRC measurements are reported in NUREG 0837.

Since the calcium sulfate phosphor is much more sensitive than the lithium borate, the measured exposure is taken as the median of the results obtained from the nine calcium sulfate phosphors in three detectors. The values are corrected for gamma response, system variations, and transit exposure, with individual gamma response calibrations for each element. The system meets or exceeds the performance specifications outlined in Regulatory Guide 4.13 for environmental applications of TLDs.

Since 1974, TVA has participated in eight of the ten intercomparisons of environmental dosimeters conducted by the U.S. Department of Energy and other interested parties. The results, shown in Table 2 and Figure 3, demonstrate that direct radiation levels determined by TVA are generally within ten percent of the calculated or known values.

Results

Results are normalized to a standard quarter (91.25 days or 2190 hours). The stations are grouped according to the distance from the plant. The first group consists of stations within 1 mile of the plant. The second group lies between 1 and 2 miles, the third group between 2 and 4 miles, the fourth between 4 and 6 miles, and the fifth group is made up of stations more than 6 miles from the plant. Past data have shown that the average results from groups greater than 2 miles from the plant are essentially the same. Therefore, for purposes of this report, stations 2 miles or less from the plant are identified as "onsite" and all others are considered "offsite."

The quarterly gamma radiation levels determined from the TLDs deployed around WBN in 1995 are summarized in Table H-1. The results from all measurements at individual stations are presented in Table H-2. The exposures are measured in milliroentgens and reported in millirem per standard quarter. For purposes of this report, one milliroentgen and one millirem (mrem) are assumed to be equivalent. The rounded average annual exposures are shown below. For comparison purposes, the average direct radiation measurements made in the preoperational monitoring program are also shown.

Annual Average
Direct Radiation Levels
WBN
mrem/year

	1995	Preoperational Average
Onsite Stations	64	75
Offsite Stations	58	65

The data in Table H-1 indicate that the average quarterly radiation levels at the WBN onsite stations are approximately 2 mrem/quarter higher than levels at the offsite stations. This difference has also been noted in the preoperational monitoring at the Browns Ferry and Sequoyah Nuclear Plants and at other nonoperating TVA nuclear power plant construction sites where the average levels onsite are generally 2-6 mrem/quarter higher than levels offsite. The causes of these differences have not been isolated; however, it is postulated that the differences are probably attributable to combinations of influences such as natural variations in environmental radiation levels, earth-moving activities onsite, and the mass of concrete employed in the construction of the plant. Other undetermined influences may also play a part.

Figure H-1 compares plots of the data from the onsite or site boundary stations with those from the offsite stations over the period from 1977 through 1995. To reduce the seasonal variations present in the data sets, a 4-quarter moving average was constructed for each data set. Figure H-2 presents a trend plot of the direct radiation levels as defined by the moving averages. The data follow the same general trend as the raw data, but the curves are much smoother.

The results reported in 1995 are consistent with direct radiation levels reported in previous years.

ATMOSPHERIC MONITORING

The atmospheric monitoring network is divided into three groups identified as local, perimeter, and remote. Four local air monitoring stations are located on or adjacent to the plant site in the general directions of greatest wind frequency. Four perimeter air monitoring stations are located in communities out to about 12 miles from the plant, and two remote air monitors are located out to 20 miles. The monitoring program and the locations of monitoring stations are identified in the tables and figures of Appendix A. The remote stations are used as control or baseline stations.

As a result of delays in the scheduled fuel load date for WBN, the atmospheric monitoring program was discontinued for calendar year 1989. The full program was restarted in January 1990. The results from the program conducted in 1995 are included in this report.

Sample Collection and Analysis

Air particulates are collected by continuously sampling air at a flow rate of approximately 2 cubic feet per minute (cfm) through a 2-inch Hollingsworth and Vose LB5211 glass fiber filter. The sampling system consists of a pump, a magnehelic gauge for measuring the drop in pressure across the system, and a dry gas meter. This allows an accurate determination of the volume of air passing through the filter. This system is housed in a building approximately 2 feet by 3 feet by 4 feet. The filter is contained in a sampling head mounted on the outside of the monitor building. The filter is replaced every 7 days. Each filter is analyzed for gross beta activity about 3 days after collection to allow time for the radon daughters to decay. Every 4 weeks composites of the filters from each location are analyzed for gamma-emitting radionuclides (gamma spectroscopy).

Gaseous radioiodine is collected using a commercially available cartridge containing TEDA-impregnated charcoal. This system is designed to collect iodine in both the elemental form and as organic compounds. The cartridge is located in the same sampling head as the air particulate filter and is downstream of the particulate filter. The cartridge is changed at the

same time as the particulate filter and samples the same volume of air. Each cartridge is analyzed for iodine (I)-131 by a complete gamma spectroscopy analysis.

Rainwater is collected by use of a collection tray attached to the monitor building. The collection tray is protected from debris by a screen cover. As water drains from the tray, it is collected in one of two 5-gallon containers inside the monitor building. A 1-gallon sample is removed from the container every 4 weeks. Any excess water is discarded. Rainwater samples are held to be analyzed only if air particulate samples indicate the presence of elevated levels or if fallout is expected. For example, rainwater samples were analyzed during the period of fallout following the accident at Chernobyl in 1986. Since no plant-related air activity was detected in 1995, no rainwater samples from WBN were analyzed in this reporting period.

Results

The results from the analysis of air particulate samples are summarized in Table H-3. Gross beta activity in 1995 was consistent with levels reported in previous years. The average level at indicator stations was 0.021 pCi/m^3 and the average at control stations was 0.021 pCi/m^3. The annual averages of the gross beta activity in air particulate filters at these stations for the years 1971-1995 are presented in Figure H-3. Increased levels due to fallout from atmospheric nuclear weapons testing are evident, especially in 1971, 1977, 1978, and 1981. Evidence of a small increase resulting from the Chernobyl accident can also be seen in 1986. These patterns are consistent with data from monitoring programs conducted by TVA at nonoperating nuclear power plant construction sites.

Only natural radioactive materials were identified by the monthly gamma spectral analysis of the air particulate samples. No fission or activation products were found at levels greater than the LLDs. As shown in Table H-4, I-131 was not detected in any charcoal canister samples collected in 1995.

TERRESTRIAL MONITORING

Terrestrial monitoring is accomplished by collecting samples of environmental media that may transport radioactive material from the atmosphere to humans. For example, radioactive material may be deposited on a vegetable garden and be ingested along with the vegetables or it may be deposited on pasture grass where dairy cattle are grazing. When the cow ingests the radioactive material, some of it may be transferred to the milk and consumed by humans who drink the milk. Therefore, samples of milk, vegetation, soil, and food crops are collected and analyzed to determine potential impacts from exposure through this pathway. The results from the analysis of these samples are shown in Tables H-5 through H-13.

A land use survey is conducted periodically to identify the location of the nearest milk animal, the nearest residence, and the nearest garden of greater than 500 square feet producing fresh leafy vegetables in each of 16 meteorological sectors within a distance of 5 miles from the plant. From these data, radiation doses are projected for individuals living near the plant. Doses from air submersion are calculated for the nearest resident in each sector, while doses from drinking milk or eating foods produced near the plant are calculated for the areas with milk-producing animals and gardens, respectively. The doses projected as a result of the 1995 land use survey are presented in Appendix G.

Sample Collection and Analysis

Milk samples are purchased every 2 weeks from three indicator dairies and from at least one of three control dairies. In addition, samples were collected from a farm producing milk for private consumption as they were available. For this sample period, thirteen samples were collected from this farm. Milk samples are placed on ice for transport to the radioanalytical laboratory. A specific analysis for I-131 and a gamma spectral analysis are performed on each sample and quarterly samples are analyzed for Sr-89 and Sr-90.

Samples of vegetation are collected every 4 weeks from one farm that had milk producing animals in the past. In addition, samples are also collected every 4 weeks from one dairy farm

and from one control station. The samples are collected by cutting or breaking enough vegetation to provide between 100 and 200 grams of sample. Care is taken not to include any soil with the vegetation. The sample is placed in a container with 1650 ml of 0.5N NaOH for transport back to the Radioanalytical Laboratory for I-131 analysis. A second sample of between 750 and 1000 grams is also collected from each location. After drying and grinding, these samples are analyzed by gamma spectroscopy. Once each quarter, the sample is ashed after the gamma analysis is completed and analyzed for Sr-89,90.

Soil samples are collected annually from the air monitoring locations. The samples are collected with either a "cookie cutter" or an auger type sampler. After drying and grinding, the sample is analyzed by gamma spectroscopy. When the gamma analysis is complete, the sample is ashed and analyzed for Sr-89,90.

Samples representative of food crops raised in the area near the plant are obtained from individual gardens, corner markets, or cooperatives. Types of foods may vary from year to year as a result of changes in the local vegetable gardens. In 1995 samples of cabbage, corn, green beans, potatoes, and tomatoes were collected from local vegetable gardens. In addition, samples of apples were also obtained from the area. The edible portion of each sample is analyzed by gamma spectroscopy.

Results

The results from the analysis of milk samples are presented in Table H-5. All I-131 values were below the established nominal LLD of 0.4 pCi/liter. Sr-90 was found in less than one-fourth of the samples. These levels are consistent with concentrations measured in samples collected in TVA's preoperational radiological environmental monitoring programs and with concentrations reported in milk as a result of fallout from atmospheric nuclear weapons tests (Reference 1). Figure H-4 displays the average Sr-90 concentrations measured in milk since 1976. The concentrations have steadily decreased as a result of the 28-year half-life of Sr-90 and the washout and transport of the element through the soil over the period. The average Sr-90 concentration reported from indicator stations in 1995 was 2.9 pCi/liter.

An average of 2.1 pCi/liter was identified in samples from control stations. By far the predominant isotope reported in milk samples was the naturally occurring K-40. An average of approximately 1300 pCi/liter of K-40 was identified in all milk samples.

The levels of Sr-90 in milk samples from farms producing milk for private consumption only are up to six times the levels found in milk from commercial dairy farms. Samples of feed and water supplied to the animals were analyzed in 1979 in an effort to determine the source of the strontium. Analysis of dried hay samples indicated levels of Sr-90 slightly higher than those encountered in routine vegetation samples. Analysis of pond water indicated no significant strontium activity.

This phenomenon was observed during the preoperational radiological monitoring near SQN and near the Bellefonte Nuclear Plant construction site at farms where only one or two cows were being milked for private consumption of the milk. It is postulated that the feeding practices of these small farms differ from those of the larger dairy farmers to the extent that fallout from atmospheric nuclear weapons testing may be more concentrated in these instances. Similarly, Hansen, et al. (Reference 4), reported an inverse relationship between the levels of Sr-90 in milk and the quality of fertilization and land management. From 1982 through 1991 milk was sampled from two smaller dairy farms in the vicinity of WBN that exhibited Sr-90 levels similar to those found at small farms milking for private use only.

Results from the analysis of vegetation samples are presented in Table H-6. All Cs-137 values were less than the nominal LLD. Sr-90 was identified in one indicator sample at a concentration of 30.0 pCi/kg and averaged 22.5 pCi/Kg in two control samples. Again, the highest concentrations identified were for the naturally occurring isotopes K-40 and Be-7.

The only fission product identified in soil samples was Cs-137. The maximum concentration of Cs-137 was 1.2 pCi/g. This value is consistent with levels previously reported from fallout. All other radionuclides reported were naturally occurring isotopes (Table H-7).

A plot of the annual average Cs-137 concentrations in soil is presented in Figure H-5. Like the levels of Sr-90 in milk, concentrations of Cs-137 in soil are steadily decreasing as a result of the cessation of weapons testing in the atmosphere, the 30 year half-life of Cs-137 and transport through the environment.

All radionuclides reported in food samples were naturally occurring. The maximum K-40 value was 3820 pCi/kg in potatoes. The results are reported in Tables H-8 through H-13.

AQUATIC MONITORING

Potential exposures from the liquid pathway can occur from drinking water, ingestion of edible fish and clams, or from direct radiation exposure from radioactive materials deposited in the river sediment. The aquatic monitoring program includes the collection of samples of river (reservoir) water, groundwater, drinking water supplies, fish, Asiatic clams, plankton and bottom and shoreline sediment. Samples from the reservoir are collected both upstream and downstream from the plant.

Results from the analysis of aquatic samples are presented in Tables H-14 through H-24. Radioactivity levels in water, fish, sediment, and clams were consistent with background and/or fallout levels previously reported. The presence of Cs-137 was identified in some samples. Since WBN has not operated prior to the end of this reporting period, these activity levels are from some other sources, such as fallout or other operations in the area.

Sample Collection and Analysis

Samples of surface water are collected from the Tennessee River using automatic sampling pumps from two downstream stations and one upstream station. A timer turns on the pump at least once every 2 hours. The line is flushed and a sample collected into a composite container. A 1-gallon sample is removed from the container at 4-week intervals and the remaining water is discarded. Each sample is analyzed for gamma-emitting radionuclides and for gross beta activity. The samples are composited quarterly and analyzed for Sr-89,90 and for tritium.

Samples are also collected by an automatic sampling pump at the first two downstream drinking water intakes. These samples are collected in the same manner as the surface water samples. These monthly samples are analyzed for gamma-emitting radionuclides and for gross beta activity. Quarterly composites are analyzed for Sr-89, Sr-90, and tritium. The samples collected by the automatic pumping device are taken directly from the river at the intake structure. Since the sample at this point is raw water, not water processed through the water treatment plant, the control sample should also be unprocessed water.

Therefore, the upstream surface water sample is also considered as a control sample for drinking water.

Groundwater is sampled from an onsite well and from a private well in an area unaffected by WBN. The samples are composited by location quarterly and analyzed for gross beta activity, for gamma-emitting radionuclides and for Sr-89,90 and tritium content.

Samples of commercial and game fish species are collected semiannually from each of two reservoirs: the reservoir on which the plant is located (Chickamauga Reservoir) and the upstream reservoir (Watts Bar Reservoir). The samples are collected using a combination of netting techniques and electrofishing. Most of the fish are filleted, but one group is processed whole for analysis. After drying and grinding, the samples are analyzed by gamma spectroscopy.

Bottom sediment is collected semiannually from selected Tennessee River Mile (TRM) locations using a dredging apparatus or divers. Samples of shoreline sediment are also taken from recreation areas in the vicinity of the plant. The samples are dried, ground and analyzed by gamma spectroscopy.

Samples of sediment are also collected from two onsite ponds; the Low Volume Waste Treatment Pond and the Yard Pond. Four samples were collected from the Low Volume Waste Treatment Pond and fourteen from the Yard Pond. Each sample was dried, ground and analyzed by gamma spectroscopy.

Efforts are made to sample Asiatic clams semiannually from one location downstream from the plant and one location upstream The clams are usually collected in the same process with the sediment. However, the clams are becoming more and more difficult to find. Enough clams are collected to produce approximately 50 grams of wet flesh. The flesh is separated from the shells and the dried flesh samples are analyzed by gamma spectroscopy.

Results

Gross beta activity was present in most of the surface water samples. Concentrations averaged 3.0 pCi/liter in downstream samples and 2.6 pCi/liter in upstream samples. All other activity was consistent with previously reported levels from fallout or naturally occurring isotopes. A trend plot of the gross beta activity in surface water samples from 1977 through 1995 is presented in Figure H-6. A summary table of the results is shown in Table H-14.

No fission or activation products were identified in drinking water samples. Average gross beta activity was 2.9 pCi/liter at downstream stations and 2.6 pCi/liter at upstream stations. The results are shown in Table H-15 and a trend plot of the gross beta activity in drinking water from 1977 through 1995 is presented in Figure H-7.

Concentrations of all fission and activation products in ground water were all below the LLDs. Only naturally occurring radionuclides were identified in these samples. Gross beta concentrations in samples from the onsite well averaged 7.7 pCi/liter, while concentrations from the offsite well were all below the lower limit of detection. The results are presented in Table H-16.

Cs-137 was identified in four fish samples. The downstream samples contained a maximum of 0.07 pCi/g, while the upstream samples had a maximum of 0.07 pCi/g. Other radioisotopes found in fish were naturally occurring, with the most notable being K-40. The concentrations of K-40 ranged from 5.5 pCi/g to 15.6 pCi/g. The results are summarized in Tables H-17, H-18, H-19, and H-20. Plots of the annual average Cs-137 concentrations are presented in Figures H-8, H-9, H-10, and H-11. The Cs-137 activities are a result of fallout or effluents from other facilities.

Radionuclides of the types produced by nuclear power plant operations were identified in sediment samples. The materials identified were Cs-137 and Co-60. In bottom sediment samples the average levels of Cs-137 were 0.33 pCi/g in downstream samples and 0.16 pCi/g upstream. These levels are consistent with previously identified fallout levels.

Co-60 was not identified in downstream samples but was identified in one upstream sample at a concentration of 0.03 pCi/g. In shoreline sediment, Cs-137 levels averaged 0.11 pCi/g in downstream samples and 0.04 pCi/g upstream. Results from the analysis of bottom sediment and shoreline sediment samples are shown in Tables H-21 and H-22, respectively. Trend plots of the average Cs-137 and Co-60 concentrations in bottom sediment samples are presented in Figures H-12 and H-13, respectively. A plot of the Cs-137 concentrations in shoreline sediment is presented in Figure H-14.

Cs-137 was identified in sixteen of the eighteen pond sediment samples. Concentrations ranged from 0.04 pCi/g to 0.38 pCi/g, with an average of 0.14 pCi/g. These levels are in general lower than concentrations reported in the stream sediment samples. Concentrations in this range would produce no measurable increase in the dose to personnel living or working in the area. A summary of the results from the analysis of the pond sediment samples is presented in Table H-23.

Only naturally occurring radioisotopes were identified in clam flesh samples. The results from the analysis of clam samples are shown in Table H-24.

ASSESSMENT AND EVALUATION

For operating nuclear power plants, potential doses to the public are estimated from measured effluents using computer models. These models were developed by TVA and are based on guidance provided by the NRC in Regulatory Guide 1.109 for determining the potential dose to individuals and populations living in the vicinity of the plant.

The area around the plant is analyzed to determine the pathways through which the public may receive an exposure. As indicated in Figure 2, the two major ways by which radioactivity is introduced into the environment are through liquid and gaseous effluents.

For liquid effluents, the public can be exposed to radiation from three sources: drinking water from the Tennessee River, eating fish caught in the Tennessee River, and direct exposure to radioactive material due to activities on the banks of the river (recreational activities). For gaseous effluents, the public can be exposed to radiation from several sources: direct radiation from the radioactivity in the air, direct radiation from radioactivity deposited on the ground, inhalation of radioactivity in the air, ingestion of vegetation which contains radioactivity deposited from the atmosphere, and ingestion of milk or meat from animals which consumed vegetation containing deposited radioactivity.

The results from each sample are compared with the concentrations from the corresponding control stations to establish the relationship between these stations during the preoperational phase of the monitoring program. During this report period, Sr-90 was found in milk samples from both indicator and control stations. Cs-137 was identified in most soil samples and in aquatic media. Cs-137 in fish and sediment is consistent with fallout levels identified in samples both upstream and downstream from the plant. No increases of radioactivity have been seen in water samples.

Dose estimates were made from concentrations of radioactivity found in samples of environmental media. Media evaluated include, but are not limited to, air, milk, food products,

drinking water, and fish. Inhalation and ingestion doses estimated for persons at the indicator locations were essentially identical to those determined for persons at control stations. Concentrations of Sr-90 and Cs-137 are consistent with levels measured in TVA's preoperational radiological environmental monitoring programs. Figures H-4 and H-5 and Figures H-9 through H-12 indicate that concentrations of Sr-90 and Cs-137 in the environment have decreased since the cessation of atmospheric weapons testing in 1981. This decrease is the result of the decay of the two isotopes and the redistribution of the materials in the environment.

Conclusions

Since WBN had not achieved criticality prior to the end of 1995, there has been no contribution of radioactivity from the plant to the environment. The levels of radioactivity reported in this document are due to natural background radiation, fallout from nuclear weapons testing, fallout from the Chernobyl nuclear power station accident, or other nuclear operations in the area.

REFERENCES

1. Merril Eisenbud, Environmental Radioactivity, Academic Press, Inc., New York, NY, 1987.

2. National Council on Radiation Protection and Measurements, Report No. 93, "Ionizing Radiation Exposure of the Population of the United States," September 1987.

3. United States Nuclear Regulatory Commission, Regulatory Guide 8.29, "Instruction Concerning Risks From Occupational Radiation Exposure," July 1981.

4. Hansen, W. G., Campbell, J. E., Fooks, J. H., Mitchell, H. C., and Eller, C. H., Farming Practices and Concentrations of Emission Products in Milk, U.S. Department of Health, Education, and Welfare; Public Health Service Publication No. 999-R-6, May 1964.

Table 1

COMPARISON OF
MAXIMUM ANNUAL AVERAGE EFFLUENT CONCENTRATIONS
RELEASED TO UNRESTRICTED AREAS
WITH REPORTING LEVELS AND LOWER LIMITS OF DETECTION

	Concentrations in Water, pCi/Liter			Concentrations in Air, pCi/Cubic Meter		
	Effluent Concentration[1]	Reporting Level[2]	Lower Limit of Detection[3]	Effluent Concentration[1]	Reporting Level[2]	Lower Limit of Detection[3]
H-3	1,000,000	20,000	250	100,000		
Cr-51	500,000		45	30,000		0.02
Mn-54	30,000	1,000	5	1,000		0.005
Co-58	20,000	1,000	5	1,000		0.005
Co-60	30,000	300	5	50		0.005
Zn-65	5,000	300	10	400		0.005
Sr-89	8,000		3	1,000		0.0006
Sr-90	500		1.4	6		0.0003
Nb-95	30,000	400	5	2,000		0.005
Zr-95	20,000	400	10	400		0.005
Ru-103	30,000		5	900		0.005
Ru-106	3,000		40	20		0.02
I-131	1,000	2	1	200	0.9	0.02
Cs-134	900	30	5	200	10	0.005
Cs-137	1,000	50	5	200	20	0.005
Ce-144	3,000		33	40		0.01
Ba-140	8,000	200	25	2,000		0.01
La-140	9,000	200	8	2,000		0.005

Note: 1 pCi = 3.7×10^{-2} Bq.

Note: For those reporting levels that are blank, no value is given in the reference.

1 Source: Table 2 of Appendix B to 10 CFR 20.1001-20.2401

2 Source: WBN Offsite Dose Calculation Manual, Table 2.3-3

3 Source: Table E-1 of this report

Table 2

Results from the
Intercomparison of Environmental Dosimeters

Year	TVA Results mrem	Average, All Respondents mrem	Calculated Exposure (See Note 1) mrem	% Difference TVA: Calculated	% Difference Respondents: Calculated
Field Dosimeters					
74	15.0	16.3	16.3	-8.0	0.0
77	30.4	31.5	34.9	-12.9	-9.7
79	13.8	16.0	14.1	-2.1	13.5
81	31.8	30.2	30.0	6.0	0.7
82	43.2	45.0	43.5	-0.7	3.4
84	73.0	75.1	75.8	-3.7	-0.9
86a	33.2	28.9	29.7	11.8	-2.7
86b	9.4	10.1	10.4	-9.6	-2.9
93a	24.4	26.4	27.0	-9.6	-2.2
93b	27.6	26.4	27.0	2.2	-2.2
Low Irradiated Dosimeters					
74	27.9	28.5	30.0	-7.0	-5.0
79	12.1	12.1	12.2	-0.8	-0.8
86	18.2	16.2	17.2	5.8	-5.8
93a	24.9	25.0	25.9	-3.9	-3.5
93b	27.8	25.0	25.9	7.3	-3.5
High Irradiated Dosimeters					
77	99.4	86.2	91.7	8.4	-6.0
79	46.1	43.9	45.8	0.7	-4.1
81a	84.1	75.8	75.2	11.8	0.8
81b	102.0	90.7	88.4	15.4	2.6
82a	179.0	191.0	202.0	-11.4	-5.4
82b	136.0	149.0	158.0	-13.9	-5.7
84a	85.6	77.9	79.9	7.1	-2.5
84b	76.8	73.0	75.0	2.4	-2.7
93a	67.8	69.8	72.7	-6.7	-4.0
93b	80.2	69.8	72.7	10.3	-4.0

Notes:
1. The calculated exposure is the "known" exposure determined the testing agency.
2. See Figure 3.

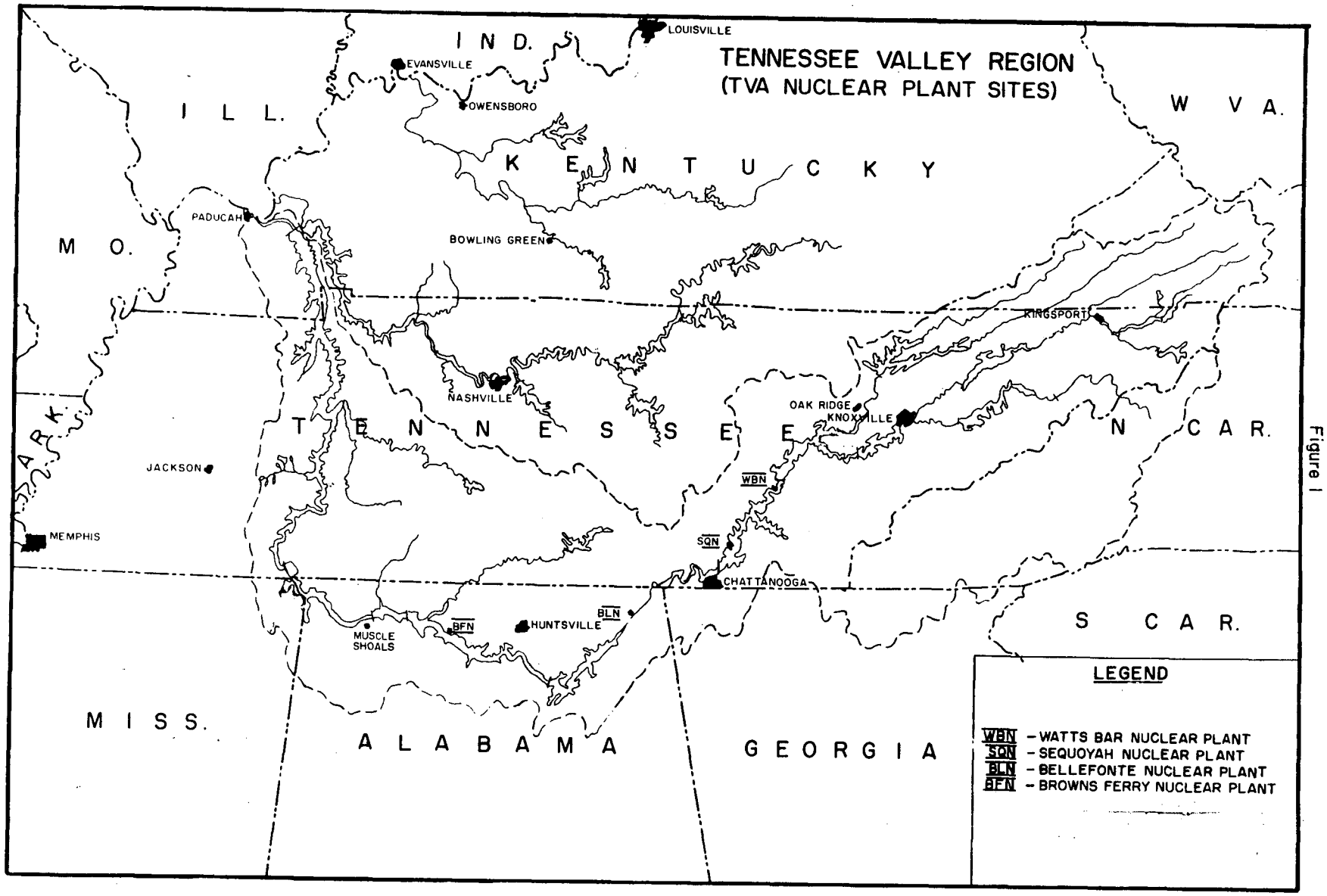
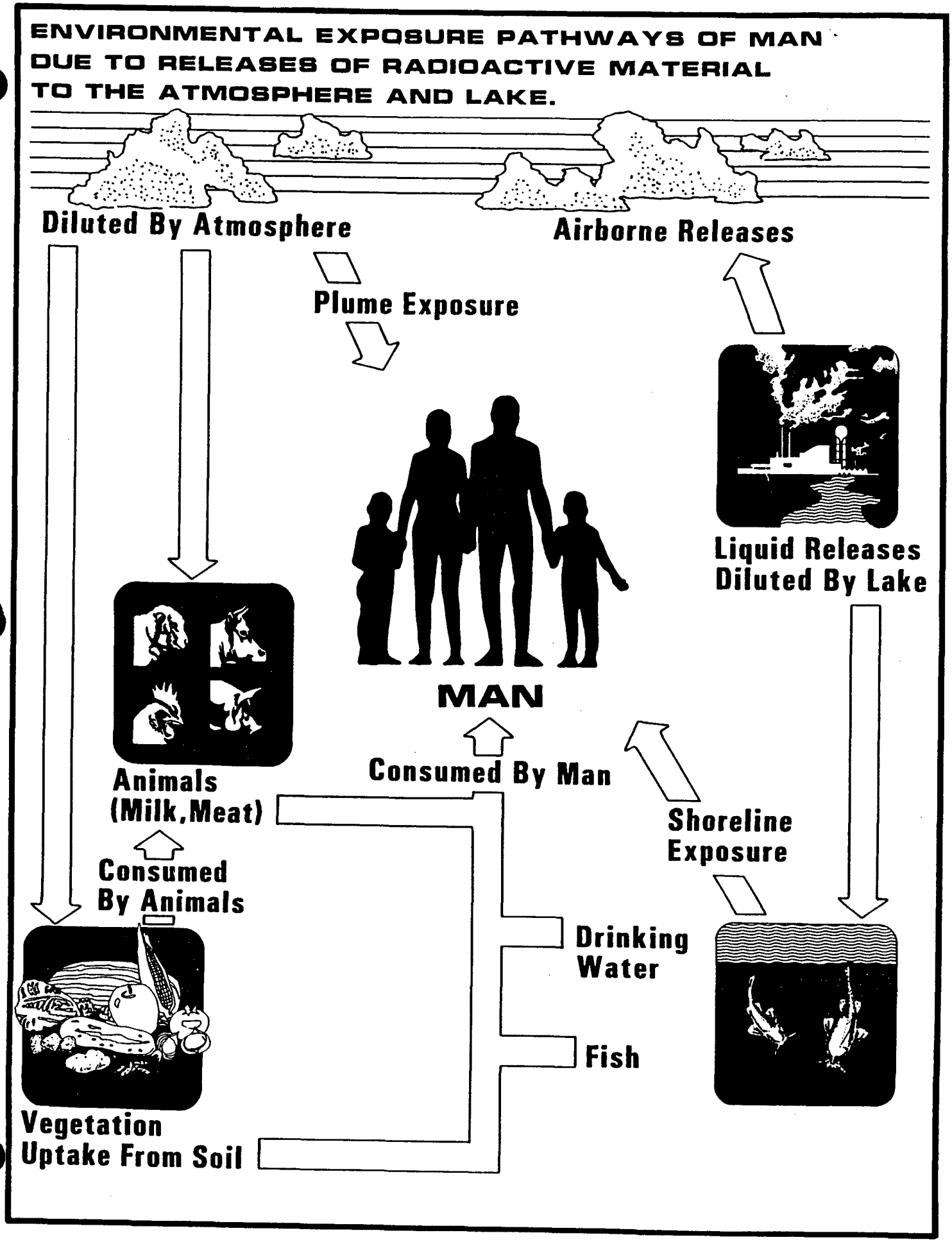

TENNESSEE VALLEY REGION
(TVA NUCLEAR PLANT SITES)
LOUISVILLE
EVANSVILLE
OWENSBORO
PADUCAH
BOWLING GREEN
KINGSPORT
NASHVILLE
OAK RIDGE
KNOXVILLE
JACKSON
MEMPHIS
CHATTANOOGA
MUSCLE SHOALS
HUNTSVILLE
WBN
SQN
BLN
BFN
I N D.
I L L.
W V A.
K E N T U C K Y
M O.
T E N N E S S E E
N C A R.
S C A R.
M I S S.
A L A B A M A
G E O R G I A
LEGEND
WBN - WATTS BAR NUCLEAR PLANT
SQN - SEQUOYAH NUCLEAR PLANT
BLN - BELLEFONTE NUCLEAR PLANT
BFN - BROWNS FERRY NUCLEAR PLANT

Figure 1

FIGURE 2


ENVIRONMENTAL EXPOSURE PATHWAYS OF MAN DUE TO RELEASES OF RADIOACTIVE MATERIAL TO THE ATMOSPHERE AND LAKE.
Diluted By Atmosphere
Airborne Releases
Plume Exposure
Liquid Releases Diluted By Lake
MAN
Animals (Milk, Meat)
Consumed By Man
Shoreline Exposure
Consumed By Animals
Drinking Water
Fish
Vegetation Uptake From Soil

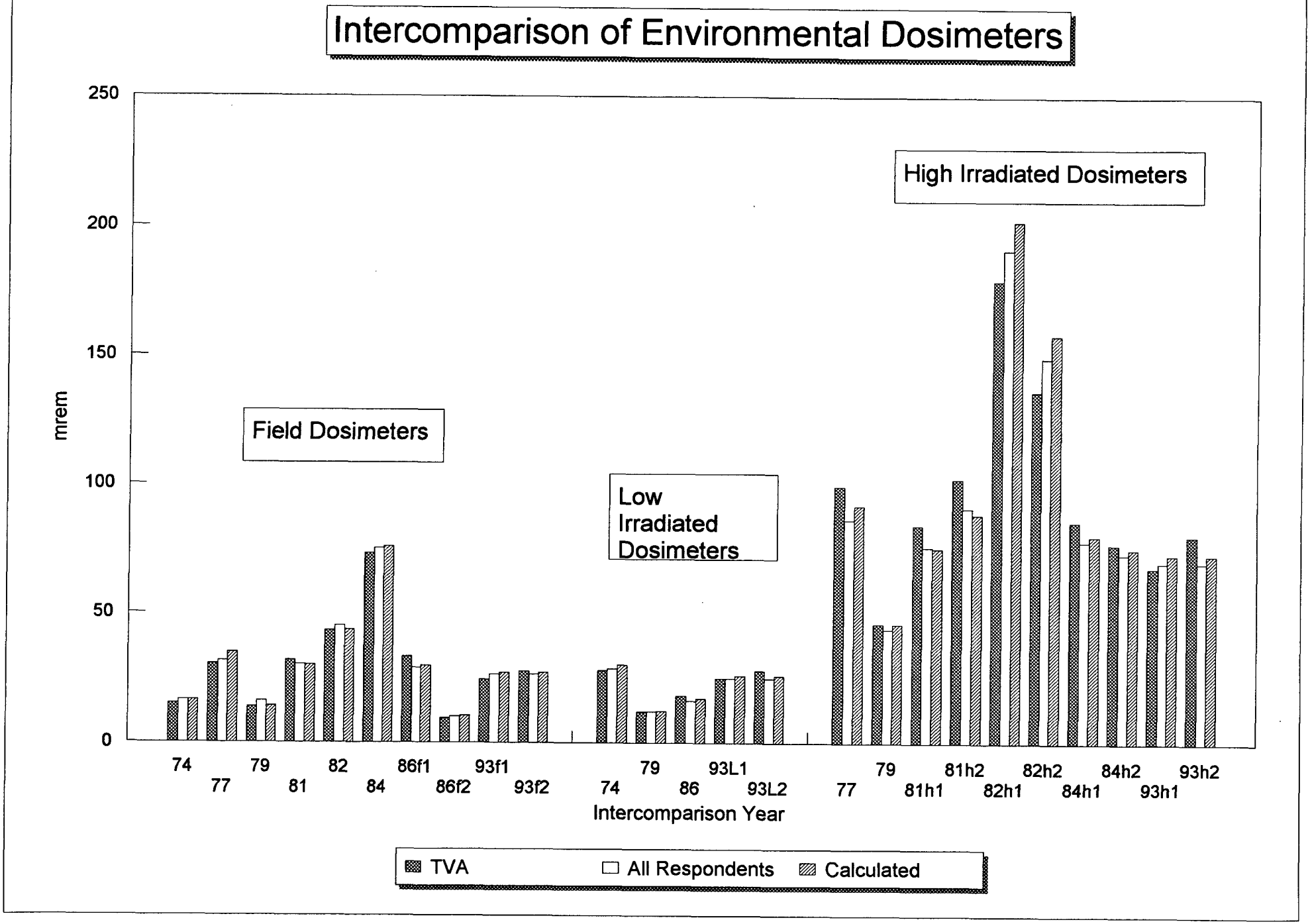

Intercomparison of Environmental Dosimeters
250
200
150
100
50
0
mrem
High Irradiated Dosimeters
Field Dosimeters
Low
Irradiated
Dosimeters
74
77
79
81
82
84
86f1
86f2
93f1
93f2
74
79
86
93L1
93L2
77
79
81h1
81h2
82h1
82h2
84h1
84h2
93h1
93h2
Intercomparison Year
TVA
All Respondents
Calculated

FIGURE 3

APPENDIX A

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM AND SAMPLING LOCATIONS

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM[a]

Exposure Pathway and/or Sample	Number of Samples and Locations[b]	Sampling and Collection Frequency	Type and Frequency of Analysis
1. AIRBORNE			
a. Particulates	4 samples from locations (in different sectors) at or near the site boundary (LM-1, 2, 3, and 4)	Continuous sampler operation with sample collection once per 7 days (more frequently if required by dust loading)	Analyze for gross beta radioactivity greater than or equal to 24 hours following filter change. Perform gamma isotopic analysis on each sample if gross beta is greater than 10 times yearly mean of control sample. Composite at least once per 31 days (by location) for gamma scan.
	4 samples from communities approximately 6-10 miles from the plant (PM-2, 3, 4, and 5)		
	2 samples from control locations greater than 10 miles from the plant (RM-1 and 3)		
b. Radioiodine	Samples from same locations as air particulates	Continuous sampler operation with filter collection once per 7 days	I-131 at least once per 7 days
d. Rainwater	Samples from same locations as air particulates	Rainwater collected continuously with composite sample taken monthly	Analyzed for gamma activity only if radioactivity in other media indicates the presence of increased levels of fallout.
e. Soil	Samples from same locations as air particulates	Once per year	Gamma scan, Sr-89, Sr-90 once per year

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM[a]

Exposure Pathway and/or Sample	Number of Samples and Locations[b]	Sampling and Collection Frequency	Type and Frequency of Analysis
2. DIRECT	2 or more dosimeters (TLDs) placed (in different sectors) at or near the site boundary in each of the 16 sectors	At least once per 92 days	Gamma dose at least once per 92 days
	2 or more dosimeters placed at stations located approximately 5 miles from the plant in each of the 16 sectors		
	2 or more dosimeters in approximately 16 additional locations of special interest.		
3. WATERBORNE			
a. Surface	2 samples downstream from plant discharge (TRM 517.9 and TRM 523.1)	Collected by automatic sequential-type sampler[c] with composite samples collected over a period of approximately 31 days	Gross beta and gamma scan of each composite sample. Composite for Sr-89, Sr-90, and tritium analysis at least once per 92 days
	1 sample at a control location upstream from plant discharge (TRM 529.3)		
b. Ground	One sample adjacent to plant (well No. 1)	Collected by automatic sequential-type sampler[c] with composite samples collected over a period of approximately 31 days	Composited for gross beta, gamma scan, Sr-89, Sr-90 and tritium at least once per 92 days

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM[a]

Exposure Pathway and/or Sample	Number of Samples and Locations[b]	Sampling and Collection Frequency	Type and Frequency of Analysis
b. Ground (Continued)	1 sample from ground water source upgradient (Farm L)	Grab sample at least once per 92 days	Gross beta, gamma scan, Sr-89, Sr-90 and tritium at least once per 92 days
c. Drinking	1 sample at the first two potable surface water supplies downstream from the plant (TRM 503.8 and TRM 473.0	Collected by automatic sequential-type sampler[c] with composite sample analyzed monthly[e]	Gross beta and gamma scan on each composite. Quarterly composite also analyzed for tritium, Sr-89, and Sr-90
	1 sample at a control location (TRM 529.3[d])		
d. Sediment	1 sample in the area immediately downstream of plant discharge (TRM 527.4)	At least once per 184 days	Gamma scan of each sample
	2 additional samples downstream of plant discharge (TRM 518.0 and 496.5)		
	1 sample at a control location upstream from plant discharge (TRM 532.1)		
e. Sediment from shoreline	1 sample downstream from plant discharge (TRM 513.0)	At least once per 184 days	Gamma scan of each sample
	1 sample from a control location upstream from plant discharge (TRM 530.2)		

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM[a]

Exposure Pathway and/or Sample	Number of Samples and Locations[b]	Sampling and Collection Frequency	Type and Frequency of Analysis
f. Pond Sediment	4 samples from the Low Volume Waste Treatment Pond 14 samples from the Yard Pond	At least once per year	Gamma scan of each sample
5. INGESTION			
a. Milk	3 samples from farms and/or dairies in the immediate vicinity of the plant (Farms L, Mu and N) 1 or more samples from control locations (Farms B, C, and/or S) (Also used at SQN)	Every 2 weeks	I-131 and gamma analysis on each sample. Sr-89 and Sr-90 once per quarter
b. Fish	1 sample each of a commercially and a recreationally important species from Chickamauga and Watts Bar Reservoirs	At least once per 184 days. At least two of the following species shall be sampled: Channel Catfish, Crappie Smallmouth Buffalo	Gamma scan on edible portions.
c. Clams	1 sample downstream of plant discharge 1 sample at a control location upstream from plant discharge	At least once per 184 days	Gamma scan on flesh only

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM[a]

Exposure Pathway and/or Sample	Number of Samples and Locations[b]	Sampling and Collection Frequency	Type and Frequency of Analysis
e. Vegetation (Pasturage and grass)	2 samples from farms from which milk is or has been obtained. (Farms L and OH)	Monthly	I-131 analysis and gamma scan of each sample. Sr-89 and Sr-90 analysis at least once per 92 days
	1 sample from a control location (Farm S; also used for SQN)	Monthly	
e. Food Products	1 sample each of principal food products grown at private gardens and/or farms in the immediate vicinity of the plant	Annually at time of harvest. The types of foods available for sampling will vary. Following is a list of typical foods which may be available:	Gamma scan on edible portion
	1 sample of each of the same foods grown at distances of greater than 10 miles from the plant	Cabbage and/or Lettuce Corn Green Beans Potatoes Tomatoes	

a. The sampling program outlined in this table is that which was in effect at the end of 1995.
b. Sample locations are shown on Figures A-1, A-2, and A-3.
c. Samples shall be collected by collecting an aliquot at intervals not exceeding 2 hours.
d. The samples collected at TRMs 503.8 and 473.0 are taken from the raw water supply, therefore, the upstream surface water sample will be considered the control sample for drinking water.
e. The two downstream sampling stations are also part of the Sequoyah Nuclear Plant (SQN) monitoring program.

Table A-2

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
SAMPLING LOCATIONS

Map Location Number[a]	Station	Sector	Approximate Distance (Miles)	Indicator (I) or Control (C)	Samples Collected[b]
2	PM-2	NW	7.0	I	AP,CF,R,S
3	PM-3	NNE	10.4	I	AP,CF,R,S
4	PM-4	NE/ENE[c]	7.6	I	AP,CF,R,S
5	PM-5	S	6.2	I	AP,CF,R,S
6	RM-2	SW	15.0	C	AP,CF,R,S
7	RM-3	NNW	15.0	C	AP,CF,R,S
8	LM-1	SSW	0.5	I	AP,CF,R,S
9	LM-2	N	0.5	I	AP,CF,R,S
10	LM-3	NNE	1.9	I	AP,CF,R,S
11	LM-4	SE	0.9	I	AP,CF,R,S
12	Farm L	SSW	1.3	I[d]	M,V,W
15	Farm B	E	15.0	C	M
16	Farm C	SSW	16.0	C	M
17	Farm S	SW	19.5	C	M,V
18	Well #1	S	0.6	I	W
19	Farm Mu	ESE	3.7	I	M
20	Farm N	ESE	4.1	I	M
21	Farm OH	WSW	4.8	I	V
25	TRM 517.9	–	9.9[e]	I	SW
25a	TRM 518.0	–	9.8[e]	I	SD
26	TRM 523.1	–	4.7[e]	I	SW
27	TRM 529.3	–	1.5[e]	C	SW[f]
28	TRM 532.1	–	4.3[e]	C	SD
29	TRM 527.4	–	0.4[e]	I	SD
31	TRM 473.0 C.F. Industries)	–	54.8[e]	I	PW
32	TRM 513.0	–	14.8[e]	I	SS
33	TRM 530.2	–	2.4[e]	C	SS
35	TRM 503.8 (Dayton)	–	24.0[e]	I	PW
36	TRM 496.5	–	31.3[e]	I	SD
38	Chickamauga Reservoir (TRM 471-530)			I	F
39	Watts Bar Reservoir (TRM 530-602)			C	F
80	Low Volume Waste Treatment Pond	SW	Onsite	I	PS
81	Yard Pond	SSE/S/SSW	Onsite	I	PS

a. See Figures A-1, A-2 and A-3.
b. Sample codes:

AP =	Air particulate filter	PW =	Public water	SD =	Sediment
CF =	Charcoal filter	PS =	Pond Sediment	SS =	Shoreline sediment
CL =	Clams	R =	Rainwater	SW =	Surface water
F =	Fish	S =	Soil	V =	Vegetation
M =	Milk			W =	Well water

c. Station located on the boundary between these two sectors.
d. A control for well water.
e. Distance from the plant discharge (TRM 527.8).
f. The surface water sample is also used as a control for public water.

Table A-3

WATTS BAR NUCLEAR PLANT
THERMOLUMINESCENT DOSIMETER (TLD) LOCATIONS

Map[a] Location Number	Station	Sector	Approximate Distance (miles)	Onsite (On)[b] or Offsite (Off)
2	NW-3	NW	7.0	Off
3	NNE-3	NNE	10.4	Off
4	ENE-3	ENE	7.6	Off
5	S-3	S	6.2	Off
6	SW-3	SW	15.0	Off
7	NNW-4	NNW	15.0	Off
10	NNE-1A	NNE	1.9	On
11	SE-1A	SE	0.9	On
12	SSW-2	SSW	1.3	On
14	W-2	W	4.8	Off
15	E-3	E	15.0	Off
40	N-1	N	1.2	On
41	N-2	N	4.7	Off
42	NNE-1	NNE	1.2	On
43	NNE-2	NNE	4.1	Off
44	NE-1	NE	0.9	On
45	NE-2	NE	2.9	Off
46	NE-3	NE	6.1	Off
47	ENE-1	ENE	0.7	On
48	ENE-2	ENE	5.8	Off
49	E-1	E	1.3	On
50	E-2	E	5.0	Off
51	ESE-1	ESE	1.2	On
52	ESE-2	ESE	4.4	Off
54	SE-2	SE	5.3	Off
55	SSE-1	SSE	0.6	On
56	SSE-2	SSE	5.8	Off
57	S-1	S	0.7	On
58	S-2	S	4.8	Off
59	SSW-1	SSW	0.8	On
60	SSW-3	SSW	5.0	Off
62	SW-1	SW	0.8	On
63	SW-2	SW	5.3	Off
64	WSW-1	WSW	0.9	On
65	WSW-2	WSW	3.9	Off
66	W-1	W	0.9	On
67	WNW-1	WNW	0.9	On
68	WNW-2	WNW	4.9	Off
69	NW-1	NW	1.1	On
70	NW-2	NW	4.7	Off
71	NNW-1	NNW	1.0	On
72	NNW-2	NNW	4.5	Off
73	NNW-3	NNW	7.0	Off
74	ENE-2A	ENE	3.5	Off
75	SE-2A	SE	3.1	Off
76	S-2A	S	2.0	Off
77	W-2A	W	3.2	Off
78	NW-2A	NW	3.0	Off

a. See Figures A-1, A-2, and A-3.
b. TLDs designated 'onsite' are located 2 miles or less from the plant; 'offsite' are located more than 2 miles from the plant.

Figure A-1

Environmental Radiological Sampling Locations

Within 1 Mile of the Plant

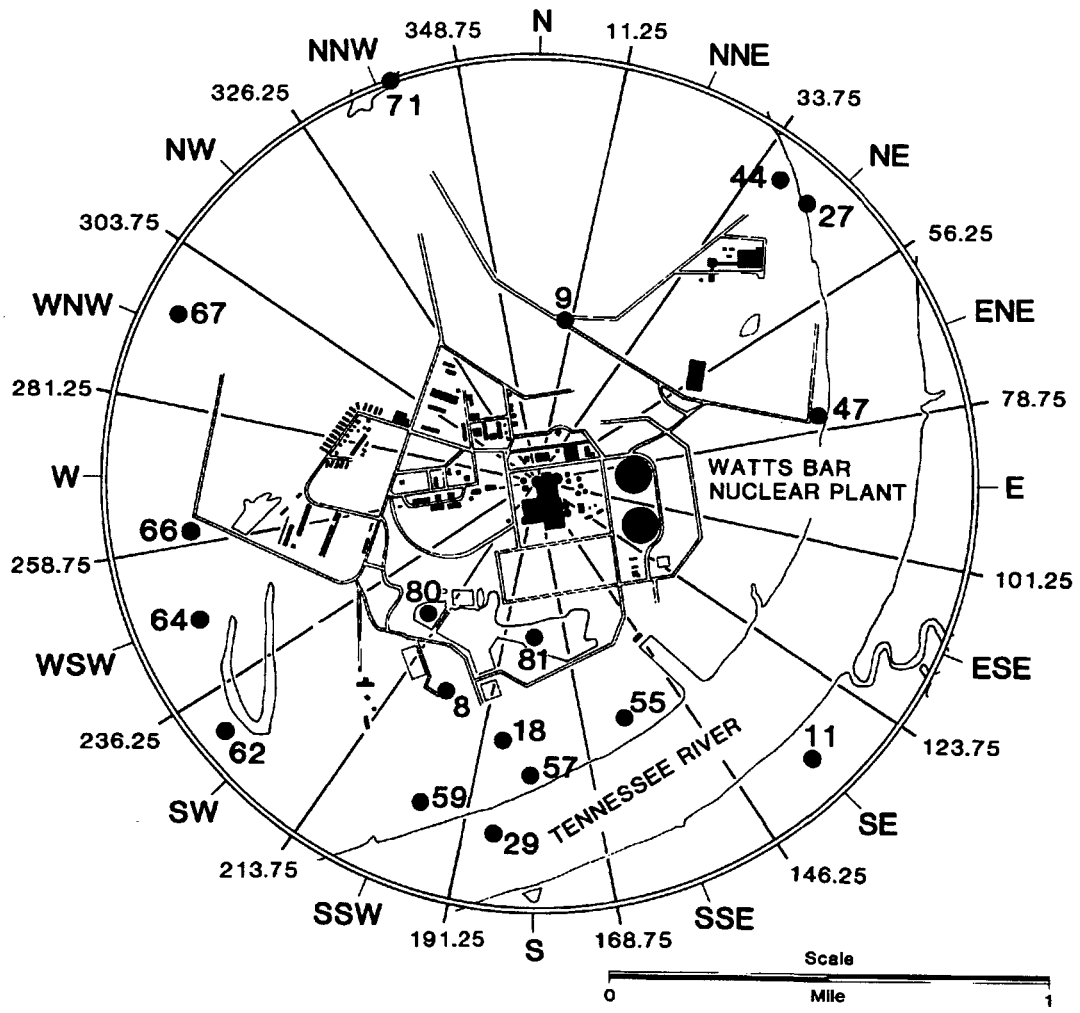


Figure A-2

Environmental Radiological Sampling Locations

From 1 to 5 Miles From The Plant

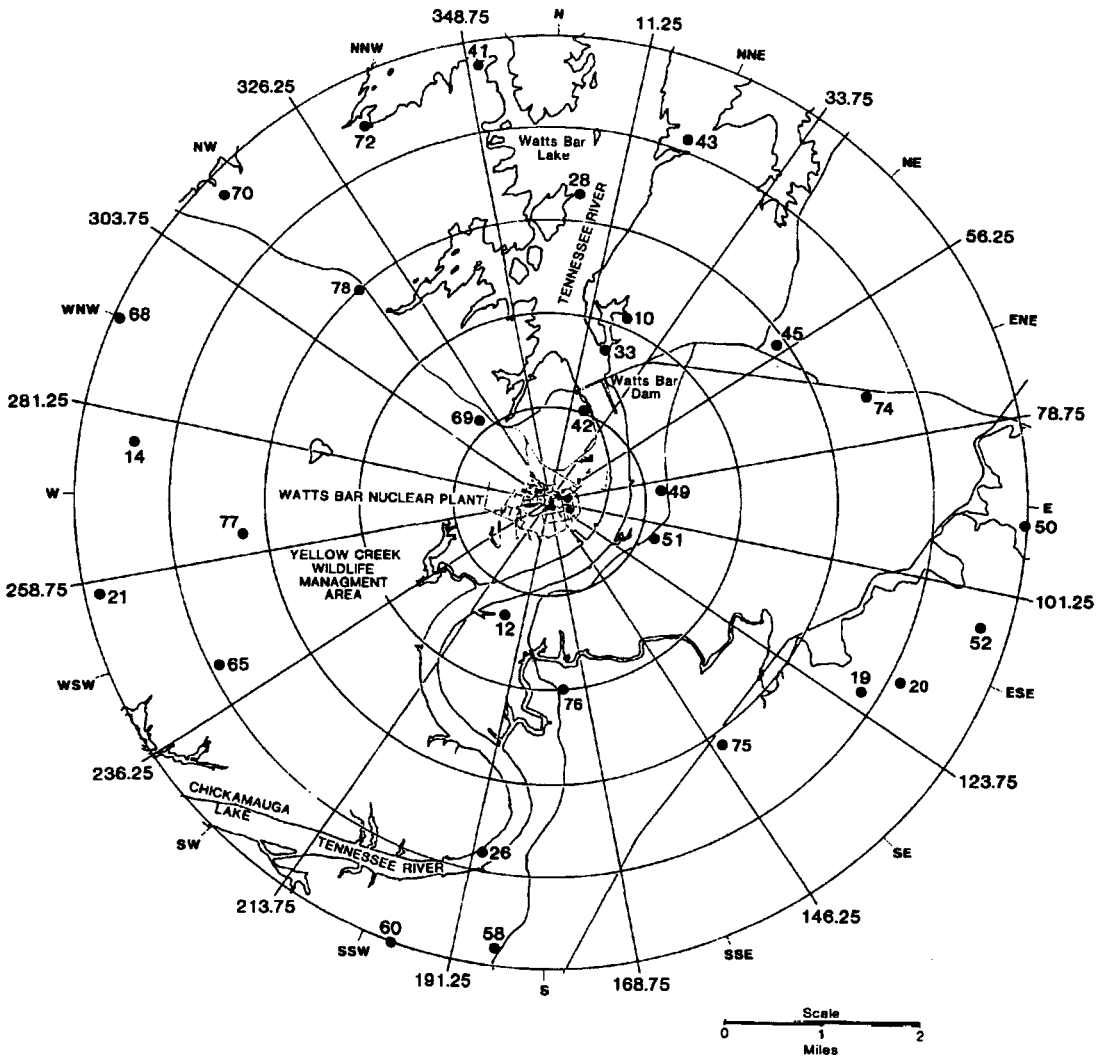
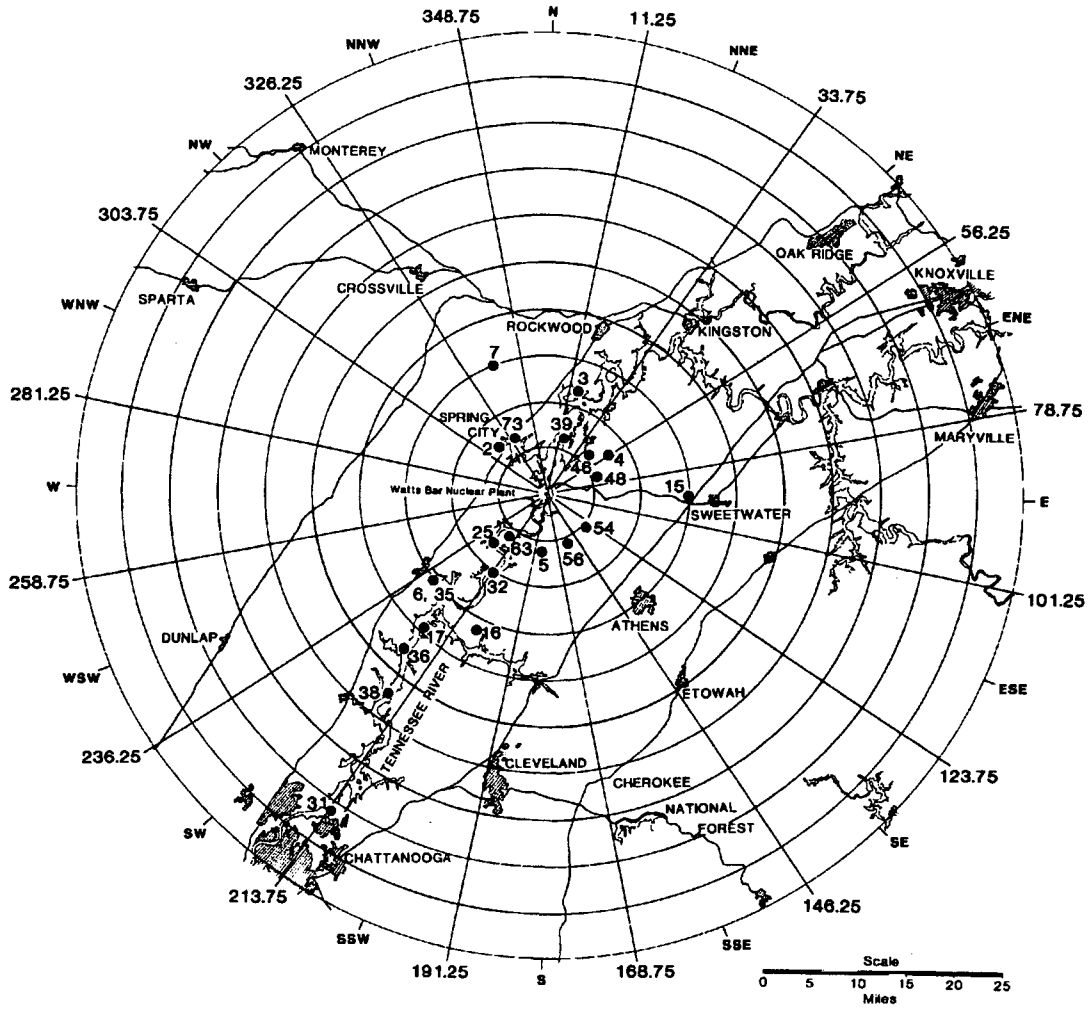


Figure A-3

Environmental Radiological Sampling Locations

Greater Than 5 Miles From the Plant



APPENDIX B

1995 PROGRAM MODIFICATIONS

Appendix B

1995 Program Modifications

Effective January 1, 1995, the WBN Radiological Environmental Monitoring Program (REMP) was modified to make it consistent with the program outlined in the WBN ODCM. Prior to that date the program included a number of activities designed to establish a broad base for background radioactivity levels in the vicinity of the plant. The program conducted prior to January 1995, contained many activities not included in the operational program described in the ODCM. Consequently, the modifications made in 1995 include the deletion of a number of these activities.

The following table lists the changes made in the REMP in 1995.

Table B-1

WATTS BAR NUCLEAR PLANT

Radiological Environmental Monitoring Program Modifications
1995

Date	Station	Location	Remarks
1/1/95	Air monitoring stations Sediment sampling stations Shoreline sediment sampling stations Fish sampling stations		Discontinued the strontiun analyses for these media.
1/1/95	All air monitoring stations		1. Discontinued the collection of gummed acetate (fallout) samples. 2. Discontinued the analyis of rainwater samples except when the need indicated by activity in other media.
1/1/95	Surface water sampling stations Public water sampling stations		Discontinued the specific analysis for I-131 activity in these samples. Analysis for I-131 by gamma spectroscopy continued.
1/1/95	Well # 1 Farm L	0.6 miles S 1.3 miles SSW	Changed well water sample analyses from monthly to quarterly.
1/1/95	Watts Bar Reservoir Piney River Mile 5.7		Discontinued the collection of public water samples from stations not obtaining water from the Tennessee River.
1/1/95	TRM 532.1 TRM 527.4 TRM 518.0 TRM 496.5	4.3 miles upstream 0.4 miles downstream 9.8 miles downstream 31.3 miles downstsream	1. Discontinued collection of clam samples from specific Tennessee River Mile locations. Clam samples are collected from one upstream and one downstream location in areas where clams can be found. 2. Discontinued the collection of plankton samples.
1/1/95	All milk sampling stations		Changed the analysis of milk samples for Sr-89,90 content from monthly to quarterly.
1/1/95	Nickajack Reservoir	57 miles downstream	Discontinued the collection of fish from this reservoir.
1/1/95	Farm Mu Farm N	3.7 miles ESE 4.1 miles ESE	Discontinued the collection of vegetation samples from these two farms. Vegetation sampling at Farm L, Farm S and Farm OH continued.
1/1/95	All food product locations		Discontinued the collection of beef and poultry samples.
1/1/95	Low Volume Waste Treatment Pond Yard Pond	Onsite Onsite	Initiated the annual collection of sediment samples from these two ponds.

APPENDIX C

PROGRAM DEVIATIONS

Appendix C

Program Deviations

During the 1995 sampling period, a small number of samples were not collected and one analysis was not completed as scheduled. These occurrences resulted in deviations from the scheduled program but not from the minimum program required by the ODCM.

The missed samples and analyses were the result of equipment malfunction, sample unavailability and impurities in a sample. A list of missed samples, analyses, causes, and remedies to prevent recurrence, where applicable, are found in Table C-1.

Table C-1

Missed Samples and Analyses

Date	Station	Location	Remarks
6/27/95 & 10/17/95	TRM 523.1	4.7 miles downstream	Two surface water samples were not collected as a result of damage to the sampling equipment. The equipment was repaired as soon as possible after the damage was discovered.
6/14/95	Farm B	15 miles E	Milk had already been picked up by the processor, therefore no sample was available. This is one of three control stations.
7/18/95	PM-2	7.0 miles NW	The air particulate and charcoal samples were not collected because of a broken belt on the sampling pump. The belt was replaced and subsequent samples collected.
8/30/94	Farm L	1.3 miles SSW	The analysis for Sr-89,90 could not be performed because the milk sample contained excessive solids. All other scheduled analyses were completed.
11/14/95	TRM 517.9	9.9 miles downstream	One surface water sample was not collected because of a blown fuse in the electrical control box. The fuse was replaced and subsequent samples were collected.
8/8/95 - 11/7/95	LM-2	0.5 miles N	Fourteen air particulate and charcoal filter samples were not collected as a result of the loss of power to the station during construction activities near the site. Power was restored in early November and subsequent samples collected.

APPENDIX D

ANALYTICAL PROCEDURES

APPENDIX D

Analytical Procedures

Analyses of environmental samples are performed by the radioanalytical laboratory located at the Western Area Radiological Laboratory facility in Muscle Shoals, Alabama. All analysis procedures are based on accepted methods. A summary of the analysis techniques and methodology follows.

The gross beta measurements are made with an automatic low background counting system. Normal counting times are 50 minutes. Water samples are prepared by evaporating 500 ml of samples to near dryness, transferring to a stainless steel planchet and completing the evaporation process. For solid samples, a specified amount of the sample is packed into a deep stainless steel planchet. Air particulate filters are counted directly in a shallow planchet.

The specific analysis of I-131 in milk, water, or vegetation samples is performed by first isolating and purifying the iodine by radiochemical separation and then counting the final precipitate on a beta-gamma coincidence counting system. The normal count time is 100 minutes. With the beta-gamma coincidence counting system, background counts are virtually eliminated and extremely low levels of activity can be detected.

After a radiochemical separation, samples analyzed for Sr-89,90 are counted on a low background beta counting system. The sample is counted a second time after a 7-day ingrowth period. From the two counts the Sr-89 and Sr-90 concentrations can be determined.

Water samples are analyzed for tritium content by first distilling a portion of the sample and then counting by liquid scintillation. A commercially available scintillation cocktail is used.

Gamma analyses are performed in various counting geometries depending on the sample type and volume. All gamma counts are obtained with germanium type detectors interfaced with a computer based multichannel analyzer system. Spectral data reduction is performed by the computer program HYPERMET.

The charcoal cartridges used to sample gaseous radioiodine were analyzed by gamma spectroscopy using a germanium detector system.

All of the necessary efficiency values, weight-efficiency curves, and geometry tables are established and maintained on each detector and counting system. A series of daily and periodic quality control checks are performed to monitor counting instrumentation. System logbooks and control charts are used to document the results of the quality control checks.

APPENDIX E

NOMINAL LOWER LIMITS OF DETECTION (LLD)

Appendix E

Nominal Lower Limits of Detection

Sensitive radiation detection devices can produce a signal or reading even when no radioactivity is present in a sample being analyzed. This signal may come from trace amounts of radioactivity in the components of the device, from cosmic rays, from naturally occurring radon gas, or from electronic noise. The signal registered when no activity is present in the sample is called the background.

The point at which the signal is determined to represent radioactivity in the sample is called the critical level. This point is based on statistical analysis of the background readings from any particular device. However, any sample measured over and over in the same device will give different readings, some higher than others. The sample should have a well-defined average reading, but any individual reading will vary from that average. In order to determine the activity present in a sample that will produce a reading above the critical level, additional statistical analysis of the background readings is required. The hypothetical activity calculated from this analysis is called the lower limit of detection (LLD). A listing of typical LLD values that a laboratory publishes is a guide to the sensitivity of the analytical measurements performed by the laboratory.

Every time an activity is calculated for a sample, the background must be subtracted from the sample signal. For the very low levels encountered in environmental monitoring, the sample signals are often very close to the background. The measuring equipment is being used at the limit of its capability. For a sample with no measurable activity, which often happens, about half the time its signal should fall below the average machine background and half the time it should be above the background. If a signal above the background is present, the calculated activity is compared to the calculated LLD to determine if there is really activity present or if the number is an artifact of the way radioactivity is measured.

A number of factors influence the LLD, including sample size, count time, counting efficiency, chemical processes, radioactive decay factors, and interfering isotopes encountered in the sample. The most likely values for these factors have been evaluated for the various analyses performed in the environmental monitoring program. The nominal LLDs calculated from these values are presented in Table E-1. The maximum values for the lower limits of detection specified in NRC NUREG 0473 are shown in Table E-2.

The LLDs are also presented in the data tables. For analyses for which LLDs have not been established, an LLD of zero is assumed in determining if a measured activity is reported as greater than the LLD.

Table E-1

Nominal LLD Values
A. Radiochemical Procedures

	Air Filters (pCi/m^3)	Water (pCi/L)	Milk (pCi/L)	Fish (pCi/g dry)	Wet Vegetation (pCi/Kg wet)	Sediment and Soil (pCi/g dry)
Gross Beta	0.002	1.9				
Tritium		300				
Iodine-131		0.4	0.4		6.0	
Strontium-89	0.0011	5.0	2.0	0.09	31.0	1.6
Strontium-90	0.0004	2.0	2.0	0.03	12.0	0.4

Table E-1
Nominal LLD Values
B. Gamma Analyses (GeLi)

	Air Particulates pCi/m^3	Charcoal Filters pCi/m^3	Water and Milk pCi/L	Soil and Vegetation pCi/kg, wet	Vegetation Sediment pCi/g, dry	Fish and Grain pCi/g, dry	Tomatoes Clam Flesh pCi/g, dry	Foods: Meat and Potatoes, etc. pCi/kg, wet	Poultry pCi/kg, wet
Ac-228	.01	.07	20	70	.25	.10	.75	50	30
Ba-140	.015	.07	25	130	.30	.30	2.40	50	50
Be-7	.02	.15	45	200	.25	.25	1.90	90	70
Bi-212	.02	.20	50	250	.45	.25	2.00	130	90
Bi-214	.005	.05	20	55	.15	.10	.50	40	25
Ce-141	.005	.02	10	35	.10	.07	.35	20	15
Ce-144	.01	.07	30	115	.20	.15	.85	60	50
Co-58	.005	.02	5	20	.03	.03	.25	10	10
Co-60	.005	.02	5	20	.03	.03	.20	10	10
Cr-51	.02	.15	45	200	.35	.30	2.40	95	75
Cs-134	.005	.02	5	30	.03	.03	.14	10	10
Cs-137	.005	.02	5	25	.03	.03	.15	10	10
Fe-59	.005	.04	10	40	.05	.08	.45	25	20
I-131	.005	.03	10	60	.25	.20	1.70	20	25
K-40	.04	.30	100	400	.75	.40	3.50	250	200
La-140	.01	.04	10	50	.20	.20	1.40	25	30
Mn-54	.005	.02	5	20	.03	.03	.20	10	10
Pa-234m	.50	3.20	800	4000	4.00	4.00	35.00	2500	2000
Nb-95	.005	.02	5	30	.04	.25	.25	10	10
Pb-212	.005	.03	15	40	.10	.04	.30	40	20
Pb-214	.005	.07	20	80	.15	.50	.10	80	40
Ra-224				.75		3.00			
Ra-226				.15		.50			
Ru-103	.005	.02	5	25	.03	.03	.25	25	15
Ru-106	.02	.12	40	190	.20	.15	1.25	190	60
Tl-208	.002	.02	10	30	.06	.03	.25	30	30
Zn-65	.005	.03	10	45	.05	.05	.40	45	20
Zr-95	.005	.03	10	45	.05	.05	.45	45	20

Table E-2

Maximum Values for the Lower Limits of Detection (LLD)
Specified by the WBN Offsite Dose Calculation Manual

Analysis	Water pCi/L	Airborne Particulate or Gases pCi/m^3	Fish pCi/Kg,wet	Milk pCi/L	Food Products pCi/kg,wet	Sediment pCi/Kg,dry
gross beta	4	1×10^{-2}	N.A.	N.A.	N.A.	N.A.
H-3	2000[a]	N.A.	N.A.	N.A.	N.A.	N.A.
Mn-54	15	N.A.	130	N.A.	N.A.	N.A.
Fe-59	30	N.A.	260	N.A.	N.A.	N.A.
Co-58,60	15	N.A.	130	N.A.	N.A.	N.A.
Zn-65	30	N.A.	260	N.A.	N.A.	N.A.
Zr-95	30	N.A.	N.A.	N.A.	N.A.	N.A.
Nb-95	15	N.A.	N.A.	N.A.	N.A.	N.A.
I-131	1[b]	7×10^{-2}	N.A.	1	60	N.A.
Cs-134	15	5×10^{-2}	130	15	60	150
Cs-137	18	6×10^{-2}	150	18	80	180
Ba-140	60	N.A.	N.A.	60	N.A.	N.A.
La-140	15	N.A.	N.A.	15	N.A.	N.A.

a. If no drinking water pathway exists, a value of 3000 pCi/L may be used.
b. If no drinking water pathway exists, a value of 15 pCi/L may be used.

APPENDIX F

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

Appendix F

Quality Assurance/Quality Control Program

A thorough quality assurance program is employed by the laboratory to ensure that the environmental monitoring data are reliable. This program includes the use of written, approved procedures in performing the work; a nonconformance and corrective action tracking system; systematic internal audits; a complete training and retraining system; audits by various external organizations; and a laboratory quality control program.

The quality control program employed by the radioanalytical laboratory is designed to ensure that the sampling and analysis process is working as intended. The program includes equipment checks and the analysis of special samples along with routine samples.

Radiation detection devices can be tested in a number of ways. There are two primary tests which are performed on all devices. In the first type, the device is operated without a sample on the detector to determine the background count rate. The background counts are usually low values and are due to machine noise, cosmic rays, or trace amounts of radioactivity in the materials used to construct the detector. Charts of background counts are kept and monitored to ensure that no unusually high or low values are encountered.

In the second test, the device is operated with a known amount of radioactivity present. The number of counts registered from such a radioactive standard should be very reproducible. These reproducibility checks are also monitored to ensure that they are neither higher nor lower than expected. When counts from either test fall outside the expected range, the device is inspected for malfunction or contamination. It is not placed into service until it is operating properly.

In addition to these two general checks, other quality control checks are performed on the variety of detectors used in the laboratory. The exact nature of these checks depends on the type of device and the method it uses to detect radiation or store the information obtained.

Quality control samples of a variety of types are used by the laboratory to verify the performance of different portions of the analytical process. These quality control samples may be blanks, replicate samples, blind samples, or cross-checks.

Blanks are samples which contain no measurable radioactivity or no activity of the type being measured. Such samples are analyzed to determine whether there is any contamination of equipment or commercial laboratory chemicals, cross-contamination in the chemical process, or interference from isotopes other than the one being measured.

Duplicate samples are generated at random by the same computer program which schedules the collection of the routine samples. For example, if the routine program calls for four milk samples every week, on a random basis each farm might provide an additional sample several times a year. These duplicate samples are analyzed along with the other routine samples. They provide information about the variability of radioactive content in the various sample media.

If enough sample is available for a particular analysis, the laboratory analyst can split it into two portions. Such a sample can provide information about the variability of the analytical process since two identical portions of material are analyzed side by side.

Analytical knowns are another category of quality control sample. A known amount of radioactivity is added to a sample medium by the quality control staff or by the analysts themselves. The analysts are told the radioactive content of the sample. Whenever possible, the analytical knowns contain the same amount of radioactivity each time they are run. In this way, the analysts have immediate knowledge of the quality of the measurement process. A portion of these samples are also blanks.

Blind spikes are samples containing radioactivity which are introduced into the analysis process disguised as ordinary environmental samples. The analyst does not know they contain radioactivity. Since the bulk of the ordinary workload of the environmental

laboratory contains no measurable activity or only naturally occurring radioisotopes, blind spikes can be used to test the detection capability of the laboratory or they can be used to test the data review process. If an analysis routinely generates numerous zeroes for a particular isotope, the presence of the isotope is brought to the attention of the laboratory supervisor in the daily review process. Blind spikes test this process since they contain radioactivity at levels high enough to be detected. Furthermore, the activity can be put into such samples at the extreme limit of detection (near the LLD) to determine whether or not the laboratory can find any unusual radioactivity whatsoever.

At present, 5 percent of the laboratory workload is in the category of internal cross-checks. These samples have a known amount of radioactivity added and are presented to the analysts labeled as cross-check samples. This means that the quality control staff knows the radioactive content or "right answer" but the analysts do not. They are aware they are being tested. Such samples test the best performance of the laboratory by determining if the analysts can find the "right answer." These samples provide information about the accuracy of the measurement process. Further information is available about the variability of the process if multiple analyses are requested on the same sample. Internal cross-checks can also tell if there is a difference in performance between two analysts. Like blind spikes or analytical knowns, these samples can also be spiked with low levels of activity to test detection limits.

Control 1.3.3 of the ODCM requires that the laboratory participate in an approved Interlaboratory Comparison Program. A series of cross-checks is produced by the EPA in Las Vegas. These interlaboratory comparison samples or "EPA cross-checks" are considered to be the primary indicator of laboratory performance. They provide an independent check of the entire measurement process that cannot be easily provided by the laboratory itself. That is, unlike internally produced cross-checks, EPA cross-checks test the calibration of the laboratory detection devices since different radioactive standards produced by individuals outside TVA are used in the cross-checks. The results of the analysis of these samples are reported back to EPA which then issues a report of all the

results of all participants. These reports are examined very closely by laboratory supervisory and quality control personnel. They indicate how well the laboratory is doing compared to others across the nation. Like internal cross-checks, the EPA cross-checks provide information to the laboratory about the precision and accuracy of the radioanalytical work it does.

The results of TVA's participation in the EPA Interlaboratory Comparison Program are presented in Table F-1 and Figure F-l. For 1995, all EPA cross-check sample concentrations measured by TVA's laboratory were within ± 3-sigma of the EPA reported values.

TVA splits certain environmental samples with laboratories operated by the States of Alabama and Tennessee and the EPA National Air and Radiation Environmental Laboratory in Montgomery, Alabama. When radioactivity has been present in the environment in measurable quantities, such as following atmospheric nuclear weapons testing, following the Chernobyl incident, or as naturally occurring radionuclides, the split samples have provided TVA with yet another level of information about laboratory performance. These samples demonstrate performance on actual environmental sample matrices rather than on the constructed matrices used in cross-check programs.

All the quality control data are routinely collected, examined, and reported to laboratory supervisory personnel. They are checked for trends, problem areas, or other indications that a portion of the analytical process needs help or improvement. The end result is a measurement process that provides accurate data and is sensitive enough to measure the presence of radioactivity far below the levels which could be harmful to humans.

Table F-1

RESULTS OBTAINED IN INTERLABORATORY COMPARISON PROGRAM

A. Air Filter (pCi/Filter)

	Gross Alpha		Gross Beta		Strontium-90		Cesium-137	
Date	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.
8/95	25±11	29	87±17	90	30±9	29	25±9	23

B. Radiochemical Analysis of Water (pCi/L)

	Gross Beta		Strontium-89		Strontium-90		Tritium		Iodine-131		Plutonium-239	
Date	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg
1/95	5±9	7	20±9	21	15±9	15						
2/95									100±17	93		
3/95							7435± 1289	7172			11± 2	10
4/95[a]			20±9	20	15±9	15						
7/95	19±9	22	20±9	21	8±9	9						
8/95							4872± 844	4747				
10/95	25±9	28							148± 26	148		
10/95[a]			20±9	22	10±9	8						

Table F-1

RESULTS OBTAINED IN INTERLABORATORY COMPARISON PROGRAM (Continued)

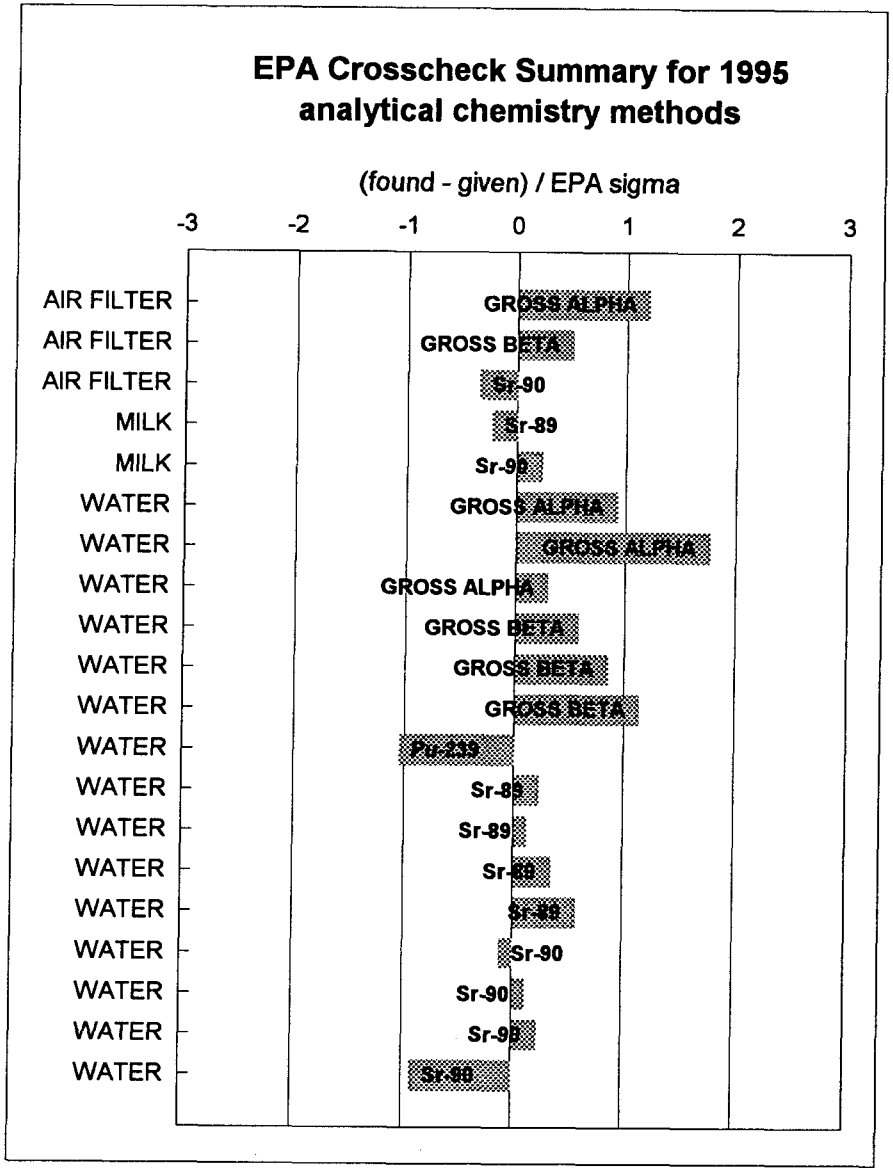
C. Gamma-Spectral Analysis of Water (pCi/L)

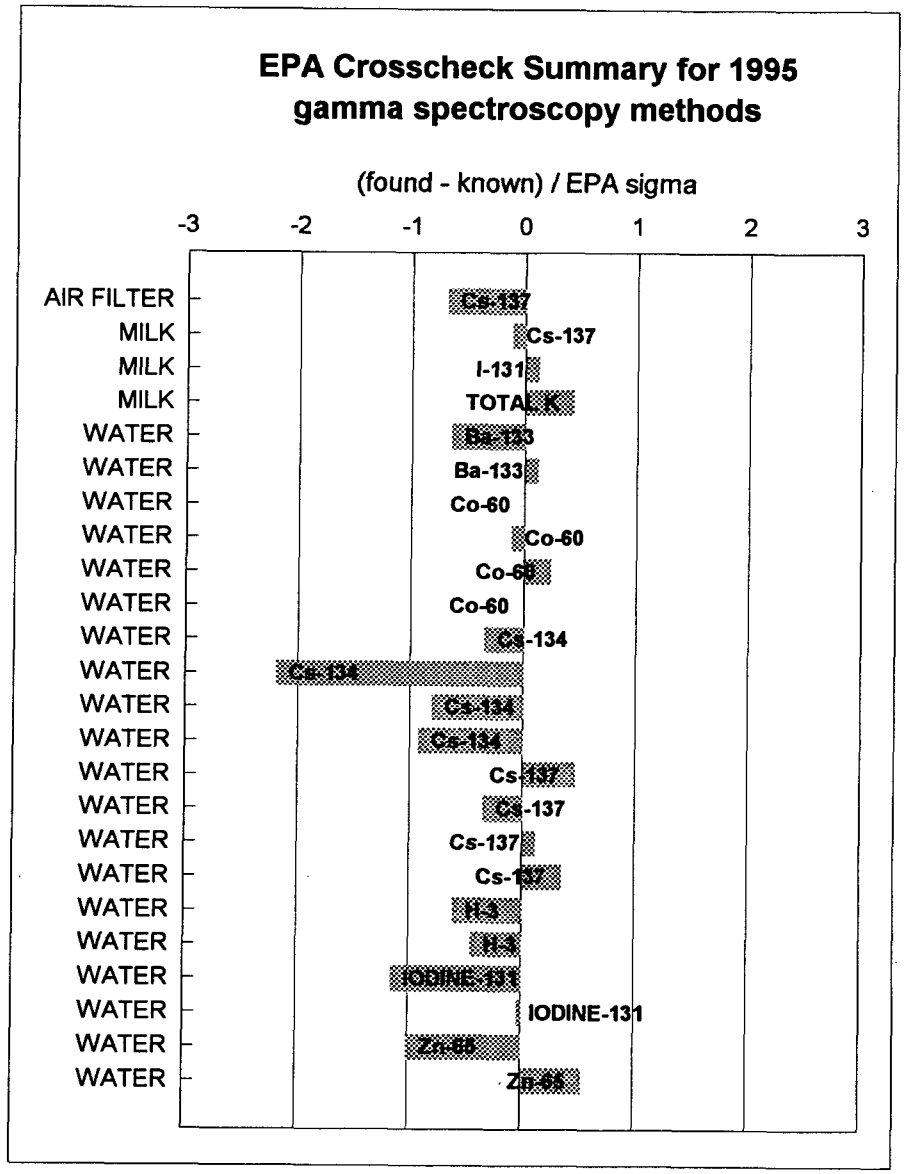
	Barium-133		Cobalt-60		Zinc-65		Cesium-134		Cesium-137	
Date	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.
4/95[a]			29±9	29			20±9	19	11±9	12
6/95	79±14	76	40±9	40	76±14	71	50±9	44	35±9	34
10/95[a]			49±9	50			40±9	38	30±9	30
11/95	99±17	100	60±9	60	125±23	129	40±9	37	49±9	50

D. Milk (pCi/L)

	Strontium-89		Strontium-90		Iodine-131		Cesium-137		Potassium-40[b]	
Date	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.	EPA Value (±3 sigma)	TVA Avg.
9/95	20±9	19	15±9	16	99±17	100	50±9	50	1654±144	1675

a. Performance Evaluation Intercomparison Study.
b. Units are milligrams of total potassium per liter rather than picocuries of K-40 per liter.





Laboratory objective: abs[(found - given)/EPA sigma] < 3

APPENDIX G

LAND USE SURVEY

APPENDIX G

Land Use Survey

A land use survey is conducted periodically in accordance with the provisions of ODCM Control 1.3.2 to identify the location of the nearest milk animal, the nearest residence, and the nearest garden of greater than 500 square feet producing fresh leafy vegetables in each of 16 meteorological sectors within a distance of 5 miles from the plant.

The land use survey is usually conducted between April 1 and October 1 using appropriate techniques such as door-to-door survey, mail survey, telephone survey, aerial survey, or information from local agricultural authorities or other reliable sources.

From the data of the surveys, relative radiation doses were projected for individuals near the plant. Doses from air submersion were calculated for the nearest resident in each sector, while doses from drinking milk or eating foods produced near the plant were calculated for the areas with milk producing animals and gardens, respectively. These doses were calculated using design basis source terms and historical meteorological data. They also assume that the plant is operating and that releases are equivalent to the design basis source terms. The calculated doses are relative in nature and do not reflect actual exposures received by individuals living near WBN.

In 1994 and 1995, three changes were made in the codes used to calculate potential doses offsite. These changes include: (1) The last five years of meteorological data were added to the meteorological data file; (2) factors ranging from 1 to 3 were added to account for the impact of the terrain on the estimated doses; and (3) the source terms were changed several times. The most recent source terms from the latest version of the Final Safety Analysis Report (FSAR) were used in the calculation of the doses included in this report.

As a result of the changes noted above in the calculational codes, relative doses calculated for 1995 for air submersion were lower than those projected for 1994 while doses

calculated in 1995 from ingestion of home-grown foods were higher than those calculated in 1994. The doses projected from the consumption of milk were also significantly lower in 1995 than in 1994, but were similar to those calculated in 1993. Except for the farm where the owner does not want to participate in the program (Farm Ho), milk samples are being collected from the three farms where the calculated doses are highest. One of the farms providing a milk sample is between Farm Ho and the plant.

Tables G-1, G-2, and G-3 show the comparative calculated doses for 1994 and 1995.

Table G-1

Watts Bar Nuclear Plant
Relative Projected Annual Air Submersion Dose to the Nearest Resident
Within 5 Miles of Plant[a]

mrem/year

Sector	1994 Survey		1995 Survey	
	Approximate Distance (Miles)	Annual Dose	Approximate Distance (Miles)	Annual Dose
N	1.3	0.84	1.3	0.24
NNE	2.3	0.77	2.3	0.19
NE	2.1	0.57	2.1	0.19
ENE	1.8	0.57	1.7	0.25
E	2.0	0.46	2.0	0.18
ESE	2.9	0.24	2.9	0.10
SE	0.9	2.00	0.9	0.75
SSE	1.0	1.21	1.0	0.38
S	1.0	1.45	1.0	0.37
SSW	1.3	1.12	1.3	0.26
SW	2.7	0.28	2.7	0.09
WSW	1.3	0.89	1.1	0.38
W	1.8	0.19	1.8	0.07
WNW	0.9	0.52	0.9	0.19
NW	1.9	0.10	1.9	0.04
NNW	2.7	0.08	2.7	0.03

a. Assumes the plant is operating and effluent releases are equivalent to design basis source terms.

Table G-2

Watts Bar Nuclear Plant
Relative Projected Annual Ingestion Dose to Child's Critical
Organ from Ingestion of Home-Grown Foods
Nearest Garden Within 5 Miles of Plant[a]

mrem/year

	1994 Survey		1995 Survey	
Sector	Approximate Distance (Miles)	Annual Dose	Approximate Distance (Miles)	Annual Dose
N	2.8	0.48	2.7	1.73
NNE	2.5	0.71	2.5	4.07
NE	2.4	0.79	2.4	3.53
ENE	1.8	0.81	1.8	4.96
E	2.0	0.67	3.6	1.41
ESE	2.9	0.61	2.9	2.34
SE	4.7	0.33	b	b
SSE	1.0	0.88	1.0	7.46
S	1.1	0.94	1.1	7.07
SSW	1.3	0.89	b	b
SW	5.0	0.49	b	b
WSW	1.7	0.72	1.7	4.30
W	2.0	0.36	2.7	0.78
WNW	1.0	0.97	b	b
NW	2.0	0.32	2.0	0.76
NNW	2.8	0.29	2.7	0.69

a. Assumes the plant is operating and effluent releases are equivalent to design basis source terms.
b. Garden not identified within 5 miles of the plant in this sector.

Table G-3

Watts Bar Nuclear Plant
Relative Projected Annual Dose to Reactor Thyroid from Ingestion of Milk[a]
(Nearest Milk-Producing Animal Within 5 Miles of Plant)

mrem/year

Location	Sector	Approximate Distance (Miles)	Annual Dose 1993	Annual Dose 1994	Annual Dose 1995	X/Q s/m^3
Cows						
Farm Mu[b]	ESE	3.6	0.06	0.54	0.10	1.22 E -6
Farm N	ESE	4.1	0.06	0.49	0.07	9.74 E -7
Farm Hu	ESE	4.7	0.04	0.41	0.05	7.49 E -7
Farm L[b]	SSW	1.3	0.64	5.12	0.94	2.15 E -6
Farm Ho[d]	SSW	1.5	0.14	1.55	0.38	2.72 E -6
Farm S	WNW/NW	4.9	0.004	0.26	0.01	8.46 E -8
Goats						
Farm OH	WSW	4.8	0.05	0.68	c	

a. Assumes the plant is operating and effluent releases are equivalent to design basis source terms.
b. Milk being sampled at these locations.
c. Milk-producing animals not identified in this sector in 1995.
d. Owner unwilling to provide samples or information. The dose calculated assumes consumption of the milk by an adult and a feeding factor equivalent to the highest reported by the other dairies (41 %). If milk from this location were to be consumed by teens, children or infants, the estimated doses would be 0.60, 1.23 and 2.92 mrem/year, respectively.

APPENDIX H

DATA TABLES

Table H-1

DIRECT RADIATION LEVELS

Average External Gamma Radiation Levels at Various Distances from Watts Bar Nuclear Plant for Each Quarter - 1995
mrem/Quarter[a]

Distance Miles	Average External Gamma Radiation Levels[b]			
	1st Quarter (Dec 94-Feb 94)	2nd Quarter (Mar-May 95)	3rd Quarter (Jun-Aug 95)	4th Quarter (Sep-Nov 95)
0-1	18.3 ± 2.5	14.7 ± 2.6	16.3 ± 2.7	17.5 ± 3.4
1-2	15.3 ± 1.4	13.7 ± 1.5	14.9 ± 1.7	15.8 ± 1.7
2-4	15.6 ± 2.6	12.6 ± 1.0	14.0 ± 1.2	14.9 ± 1.9
4-6	15.5 ± 1.9	13.0 ± 1.7	14.3 ± 1.9	15.4 ± 2.4
>6	14.3 ± 2.0	12.5 ± 2.2	13.8 ± 2.0	15.9 ± 2.7
Average, 0-2 miles (Onsite)	17.1 ± 2.6	14.3 ± 2.3	15.8 ± 2.5	16.9 ± 3.0
Average >2 miles (Offsite)	15.2 ± 2.1	12.8 ± 1.8	14.1 ± 1.8	15.5 ± 2.5

a. Data normalized to one quarter (2190 hours).
b. Averages of the individual measurements in the set ±1 standard deviation of the set.

Table H-2

DIRECT RADIATION LEVELS

B. Individual Stations

Map Location Number		NRC Station No.*	Direction, Degrees	Approx. Distance, Miles	Environmental Radiation Levels mrem/Quarter 1st Quarter Dec. 1994 Feb. 1995	2nd Quarter March - May 1995	3rd Quarter June - Aug. 1995	4th Quarter Sept. - Nov. 1995	Annual Exposure, mrem/Year
40	N-1	16	10	1.2	16.8	15.0	15.9	14.4	62.1
41	N-2	15	350	4.7	15.0	13.2	14.5	12.5	55.2
42	NNE-1		21	1.2	15.9	14.5	16.7	13.1	60.2
10	NNE-1A		22	1.9	14.4	12.5	13.1	14.8	54.8
43	NNE-2		20	4.1	13.0	11.6	12.6	14.0	51.2
3	NNE-3		17	10.4	14.3	11.6	13.0	14.6	53.5
44	NE-1		39	0.9	19.0	16.9	19.1	24.5	79.5
45	NE-2		54	2.9	17.0	12.8	14.4	17.9	62.1
46	NE-3		47	6.1	13.5	10.2	11.8	12.2	47.7
47	ENE-1		74	0.7	16.7	14.8	17.0	17.1	65.6
48	ENE-2		69	5.8	13.7	11.8	14.0	13.8	53.3
74	ENE-2A		69	3.5	12.0	11.0	12.2	12.1	47.3
4	ENE-3		56	7.6	13.4	11.4	13.3	13.9	52.0
49	E-1	20	85	1.3	14.5	13.0	13.7	15.6	56.8
50	E-2		92	5.0	15.2	13.2	15.2	15.8	59.4
15	E-3		90	15.0	17.8	16.8	17.1	18.1	69.8
51	ESE-1	21	109	1.2	12.6	11.0	12.4	13.0	49.0
52	ESE-2		106	4.4	19.6	16.2	17.5	18.3	71.6
11	SE-1A	22	138	0.9	19.3	12.1	13.3	13.9	58.6
54	SE-2		128	5.3	18.6	11.2	12.3	13.3	55.4
75	SE-2A		144	3.1	20.2	12.4	13.6	14.2	60.4
55	SSE-1		156	0.6	20.8	13.4	14.9	15.3	64.4
56	SSE-2		156	5.8	14.8	13.9	15.0	15.8	59.5

* Locations with TVA and NRC stations co-located.

Table H-2

DIRECT RADIATION LEVELS

B. Individual Stations

Map Location Number		NRC Station No.*	Direction, Degrees	Approx. Distance, Miles	Environmental Radiation Levels mrem/Quarter 1st Quarter Dec. 1993-Feb. 1994	2nd Quarter March - May 1994	3rd Quarter June - Aug. 1994	4th Quarter Sept. - Nov. 1994	Annual Exposure, mrem/Year
57	S-1		182	0.7	19.8	12.3	13.5	14.5	60.1
58	S-2		185	4.8	14.6	10.6	11.1	11.5	47.8
76	S-2A		177	2.0	15.7	14.3	15.7	16.0	61.7
5	S-3		185	6.2	14.4	12.5	14.5	14.1	55.5
59	SSW-1		199	0.8	19.3	17.5	19.5	19.2	75.5
12	SSW-2		200	1.3	16.5	14.5	15.3	14.6	60.9
60	SSW-3		199	5.0	17.1	11.4	12.0	13.1	53.6
62	SW-1		226	0.8	20.4	16.7	18.2	18.0	73.3
63	SW-2		220	5.3	13.9	12.4	13.7	13.2	53.2
6	SW-3		225	15.0	12.8	11.1	12.2	13.4	49.5
64	WSW-1		255	0.9	14.5	12.4	13.7	14.5	55.1
65	WSW-2	9	247	4.0	15.9	14.5	15.7	18.1	64.2
66	W-1		270	0.9	15.7	13.5	15.1	18.8	63.1
14	W-2		277	4.8	12.6	10.9	12.1	13.7	49.3
77	W-2A		268	3.2	14.9	13.0	15.0	15.6	58.5
67	WNW-1		294	0.9	21.9	20.3	21.5	22.6	86.3
68	WNW-2		292	4.9	16.9	16.0	16.7	17.4	67.0
69	NW-1		320	1.1	16.2	14.9	16.0	16.8	63.9
70	NW-2		313	4.7	16.2	14.3	16.5	16.7	63.7
78	NW-2A		321	3.0	14.0	12.0	12.9	13.5	52.4
2	NW-3		317	7.0	17.6	16.1	17.1	20.4	71.2
71	NNW-1	1	340	1.0	14.0	12.3	13.6	14.5	54.4
72	NNW-2		333	4.5	15.2	13.7	15.0	20.9	64.8
73	NNW-3	14	329	7.0	12.2	10.9	11.8	18.2	53.1
7	NNW-4		337	15.0	12.4	11.5	12.8	18.4	55.1

* Locations with TVA and NRC stations co-located.

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA						
505	2.00E-03	2.06E-02(401/ 401)	PM-4 TEN MILE	2.18E-02(52/ 52)	2.09E-02(104/ 104)	
		9.02E-03- 4.11E-02	7.8 M. NE/ENE	1.16E-02- 4.04E-02	1.15E-02- 4.03E-02	
GAMMA SCAN (GELI)						
127						
BE-7	2.00E-02	9.82E-02(99/ 101)	PM3 CEDINE BIBLE	1.03E-01(13/ 13)	1.03E-01(26/ 26)	
		5.23E-02- 1.42E-01	CAMP 11.5 M. NNE	6.32E-02- 1.42E-01	6.16E-02- 1.46E-01	
BI-214	5.00E-03	8.15E-03(21/ 101)	PM5 DECATUR	1.17E-02(3/ 13)	9.72E-03(4/ 26)	
		5.00E-03- 1.48E-02	6.25 MILES S	1.04E-02- 1.37E-02	5.70E-03- 2.09E-02	
PB-214	5.00E-03	8.81E-03(20/ 101)	PM5 DECATUR	1.19E-02(3/ 13)	1.05E-02(4/ 26)	
		5.20E-03- 1.50E-02	6.25 MILES S	9.10E-03- 1.49E-02	5.60E-03- 2.31E-02	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) 505						
BI-214	5.00E-02	6.76E-02(2/ 401)	LM2 N. WBSP GATE	8.22E-02(1/ 38)	5.71E-02(2/ 104)	
		5.29E-02- 8.22E-02	0.5 MILES N	8.22E-02- 8.22E-02	5.45E-02- 5.97E-02	
K-40	3.00E-01	3.52E-01(4/ 401)	PM3 CEDINE BIBLE	3.81E-01(1/ 52)	4.05E-01(1/ 104)	
		3.28E-01- 3.81E-01	CAMP 11.5 M. NNE	3.81E-01- 3.81E-01	4.05E-01- 4.05E-01	
PB-214	7.00E-02	7.94E-02(1/ 401)	LM2 N. WBSP GATE	7.94E-02(1/ 38)	9.46E-02(1/ 104)	
		7.94E-02- 7.94E-02	0.5 MILES N	7.94E-02- 7.94E-02	9.46E-02- 9.46E-02	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
IODINE-131						
155	4.00E-01	78 VALUES < LLD			77 VALUES < LLD	
GAMMA SCAN (GELI)						
156						
BI-214	2.00E+01	7.69E+01(5/ 79)	LAYMAN FARM	7.96E+01(4/ 27)	9.11E+01(15/ 77)	
		3.81E+01- 1.29E+02	1.3 MILES SW	3.81E+01- 1.29E+02	2.11E+01- 1.86E+02	
K-40	1.00E+02	1.38E+03(79/ 79)	MULLINS FARM	1.42E+03(26/ 26)	1.32E+03(77/ 77)	
		9.85E+02- 1.84E+03	3.7 M. ESE	1.23E+03- 1.58E+03	8.13E+02- 1.65E+03	
PB-214	2.00E+01	7.04E+01(5/ 79)	LAYMAN FARM	7.55E+01(4/ 27)	9.47E+01(14/ 77)	
		3.57E+01- 1.36E+02	1.3 MILES SW	3.57E+01- 1.36E+02	2.51E+01- 1.88E+02	
SR 89						
23	2.00E+00	11 VALUES < LLD			12 VALUES < LLD	
SR 90						
23	2.00E+00	2.89E+00(2/ 11)	LAYMAN FARM	3.34E+00(1/ 3)	2.11E+00(1/ 12)	
		2.45E+00- 3.34E+00	1.3 MILES SW	3.34E+00- 3.34E+00	2.11E+00- 2.11E+00	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN VEGETATION
PCI/KG - 0.037 BQ/KG (WET WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
IODINE-131						
39	6.00E+00	26 VALUES < LLD			13 VALUES < LLD	
GAMMA SCAN (GELI)						
39						
BE-7	2.00E+02	1.27E+03(25/ 26)	LAYMAN FARM	1.30E+03(12/ 13)	8.75E+02(12/ 13)	
		2.67E+02- 3.06E+03	1.3 MILES SW	3.63E+02- 3.06E+03	2.68E+02- 2.33E+03	
BI-214	5.50E+01	9.39E+01(2/ 26)	LAYMAN FARM	1.10E+02(1/ 13)	13 VALUES < LLD	
		7.83E+01- 1.10E+02	1.3 MILES SW	1.10E+02- 1.10E+02		
K-40	4.00E+02	6.16E+03(26/ 26)	LAYMAN FARM	6.30E+03(13/ 13)	5.66E+03(13/ 13)	
		3.36E+03- 8.93E+03	1.3 MILES SW	5.20E+03- 7.44E+03	4.34E+03- 7.49E+03	
PB-214	8.00E+01	9.75E+01(2/ 26)	LAYMAN FARM	1.11E+02(1/ 13)	13 VALUES < LLD	
		8.38E+01- 1.11E+02	1.3 MILES SW	1.11E+02- 1.11E+02		
SR 89						
12	3.10E+01	8 VALUES < LLD			4 VALUES < LLD	
SR 90						
12	1.20E+01	3.00E+01(4/ 8)	OWEN HENDERSON FARM	3.00E+01(4/ 4)	2.25E+01(2/ 4)	
		1.22E+01- 4.15E+01	4.8 MILES WSW	1.22E+01- 4.15E+01	2.07E+01- 2.43E+01	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SOIL
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
11						
AC-228	2.50E-01	1.15E+00(8/ 8)	LM1 ENV DATA STA	1.38E+00(1/ 1)	6.99E-01(3/ 3)	
		8.40E-01- 1.38E+00	0.5 MILES SSW	1.38E+00- 1.38E+00	5.88E-01- 7.67E-01	
BE-7	2.50E-01	8 VALUES < LLD	LM2 N. WBSP GATE	1 VALUES < LLD	4.11E-01(1/ 3)	
			0.5 MILES N		4.11E-01- 4.11E-01	
BI-212	4.50E-01	1.18E+00(8/ 8)	LM2 N. WBSP GATE	1.49E+00(1/ 1)	7.40E-01(3/ 3)	
		9.20E-01- 1.49E+00	0.5 MILES N	1.49E+00- 1.49E+00	5.67E-01- 8.84E-01	
BI-214	1.50E-01	8.26E-01(8/ 8)	LM1 ENV DATA STA	9.20E-01(1/ 1)	6.54E-01(3/ 3)	
		6.09E-01- 9.20E-01	0.5 MILES SSW	9.20E-01- 9.20E-01	5.23E-01- 7.29E-01	
CS-137	3.00E-02	4.88E-01(8/ 8)	PM2 SPRING CITY	1.17E+00(1/ 1)	2.91E-01(3/ 3)	
		4.84E-02- 1.17E+00	7.0 MILES NW	1.17E+00- 1.17E+00	1.42E-01- 5.75E-01	
K-40	7.50E-01	1.21E+01(8/ 8)	LM-4 WB	2.68E+01(1/ 1)	4.20E+00(3/ 3)	
		3.56E+00- 2.68E+01	0.9 MILES SE	2.68E+01- 2.68E+01	4.02E+00- 4.52E+00	
PB-212	1.00E-01	1.08E+00(8/ 8)	LM2 N. WBSP GATE	1.26E+00(1/ 1)	7.19E-01(3/ 3)	
		8.34E-01- 1.26E+00	0.5 MILES N	1.26E+00- 1.26E+00	5.63E-01- 8.15E-01	
PB-214	1.50E-01	8.97E-01(8/ 8)	LM-3 WB	1.03E+00(1/ 1)	7.26E-01(3/ 3)	
		6.74E-01- 1.03E+00	2.1 MILES NNE	1.03E+00- 1.03E+00	5.91E-01- 8.12E-01	
RA-224	7.50E-01	1.10E+00(6/ 8)	LM2 N. WBSP GATE	1.32E+00(1/ 1)	8.38E-01(2/ 3)	
		8.79E-01- 1.32E+00	0.5 MILES N	1.32E+00- 1.32E+00	8.28E-01- 8.47E-01	
RA-226	1.50E-01	8.26E-01(8/ 8)	LM1 ENV DATA STA	9.20E-01(1/ 1)	6.54E-01(3/ 3)	
		6.09E-01- 9.20E-01	0.5 MILES SSW	9.20E-01- 9.20E-01	5.23E-01- 7.29E-01	
TL-208	6.00E-02	3.68E-01(8/ 8)	LM2 N. WBSP GATE	4.41E-01(1/ 1)	2.33E-01(3/ 3)	
		2.80E-01- 4.41E-01	0.5 MILES N	4.41E-01- 4.41E-01	1.82E-01- 2.63E-01	
SR 89						
11						
	1.60E+00	8 VALUES < LLD			3 VALUES < LLD	
SR 90						
11						
	4.00E-01	8 VALUES < LLD			3 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN APPLES
PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) 2						
K-40	2.50E+02	1.44E+03(1/ 1) 1.44E+03- 1.44E+03	OWEN HENDERSON FARM 4.8 MILES WSW	1.44E+03(1/ 1) 1.44E+03- 1.44E+03	7.73E+02(1/ 1) 7.73E+02- 7.73E+02	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CABBAGE
PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) 2						
K-40	2.50E+02	1.96E+03(1/ 1) 1.96E+03- 1.96E+03	2.0 MILES S	1.96E+03(1/ 1) 1.96E+03- 1.96E+03	1.05E+03(1/ 1) 1.05E+03- 1.05E+03	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CORN
PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
K-40 2	2.50E+02	2.25E+03(1/ 1) 2.25E+03- 2.25E+03	OWEN HENDERSON FARM 4.8 MILES WSW	2.25E+03(1/ 1) 2.25E+03- 2.25E+03	1.92E+03(1/ 1) 1.92E+03- 1.92E+03	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN GREEN BEANS
PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
K-40	2.50E+02	1.80E+03(1/ 1) 1.80E+03- 1.80E+03	2.0 MILES S	1.80E+03(1/ 1) 1.80E+03- 1.80E+03	1.81E+03(1/ 1) 1.81E+03- 1.81E+03	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN POTATOES
PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
K-40	2.50E+02	3.82E+03(1/ 1) 3.82E+03- 3.82E+03	OWEN HENDERSON FARM 4.8 MILES WSW	3.82E+03(1/ 1) 3.82E+03- 3.82E+03	3.38E+03(1/ 1) 3.38E+03- 3.38E+03	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN TOMATOES
PCI/KG - 0.037 BQ/KG (WET WT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI)						
K-40	2.50E+02	2.87E+03(1/ 1) 2.87E+03- 2.87E+03	MULLINS FARM 3.7 M. ESE	2.87E+03(1/ 1) 2.87E+03- 2.87E+03	2.04E+03(1/ 1) 2.04E+03- 2.04E+03	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SURFACE WATER(Total)
PCI/L - 0.037 BQ/L

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA						
36	1.90E+00	3.05E+00(21/ 23)	TRM 517.9	3.39E+00(12/ 12)	2.65E+00(13/ 13)	
		2.01E+00- 6.60E+00	9.9 MILES DOWNSTREA	2.42E+00- 6.60E+00	2.07E+00- 3.17E+00	
GAMMA SCAN (GELI)						
36	5.00E+00	23 VALUES < LLD			13 VALUES < LLD	
SR 89						
12	5.00E+00	8 VALUES < LLD			4 VALUES < LLD	
SR 90						
12	2.00E+00	8 VALUES < LLD			4 VALUES < LLD	
TRITIUM						
12	3.00E+02	8 VALUES < LLD			4 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN PUBLIC WATER(Total)
PCI/L - 0.037 BQ/L

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA						
39						
	1.90E+00	2.94E+00(21/ 26)	CF INDUSTRIES	3.02E+00(9/ 13)	2.65E+00(13/ 13)	
		2.05E+00- 4.83E+00	TRM 473.0	2.27E+00- 4.36E+00	2.07E+00- 3.17E+00	
GAMMA SCAN (GELI)						
39						
BI-214	2.00E+01	3.56E+01(2/ 26)	RM-2 DAYTON TN	3.56E+01(2/ 13)	13 VALUES < LLD	
		2.10E+01- 5.01E+01	17.75 MILES NNE	2.10E+01- 5.01E+01		
PB-214	2.00E+01	2.92E+01(1/ 26)	RM-2 DAYTON TN	2.92E+01(1/ 13)	13 VALUES < LLD	
		2.92E+01- 2.92E+01	17.75 MILES NNE	2.92E+01- 2.92E+01		
SR 89						
12						
	5.00E+00	8 VALUES < LLD			4 VALUES < LLD	
SR 90						
12						
	2.00E+00	8 VALUES < LLD			4 VALUES < LLD	
TRITIUM						
12						
	3.00E+02	3.24E+02(1/ 8)	CF INDUSTRIES	3.24E+02(1/ 4)	4 VALUES < LLD	
		3.24E+02- 3.24E+02	TRM 473.0	3.24E+02- 3.24E+02		

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN WELL WATER(Total)
PCI/L - 0.037 BQ/L

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GROSS BETA						
8	1.90E+00	7.70E+00(4/ 4) 4.81E+00- 1.03E+01	WBN WELL #1 ONSITE S	7.70E+00(4/ 4) 4.81E+00- 1.03E+01	4 VALUES < LLD	
GAMMA SCAN (GELI)						
8						
BI-214	2.00E+01	4 VALUES < LLD	WBN WELL #1 ONSITE S	4 VALUES < LLD	4.63E+02(4/ 4) 3.14E+02- 5.13E+02	
PB-214	2.00E+01	4 VALUES < LLD	WBN WELL #1 ONSITE S	4 VALUES < LLD	4.69E+02(4/ 4) 3.19E+02- 5.30E+02	
SR 89						
8	5.00E+00	4 VALUES < LLD			4 VALUES < LLD	
SR 90						
8	2.00E+00	4 VALUES < LLD			4 VALUES < LLD	
TRITIUM						
8	3.00E+02	4 VALUES < LLD			4 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CHANNEL CATFISH FLESH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) 4						
K-40	4.00E-01	1.12E+01(2/ 2) 7.88E+00- 1.45E+01	CHICKAMAUGA RES TRM 471-530	1.12E+01(2/ 2) 7.88E+00- 1.45E+01	1.11E+01(2/ 2) 9.47E+00- 1.28E+01	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CRAPPIE FLESH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) 4						
CS-137	3.00E-02	5.98E-02(2/ 2)	CHICKAMAUGA RES	5.98E-02(2/ 2)	6.44E-02(2/ 2)	
		4.90E-02- 7.06E-02	TRM 471-530	4.90E-02- 7.06E-02	6.24E-02- 6.65E-02	
K-40	4.00E-01	1.41E+01(2/ 2)	CHICKAMAUGA RES	1.41E+01(2/ 2)	1.43E+01(2/ 2)	
		1.30E+01- 1.53E+01	TRM 471-530	1.30E+01- 1.53E+01	1.36E+01- 1.50E+01	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SMALLMOUTH BUFFALO FLESH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) 4						
K-40	4.00E-01	1.12E+01(2/ 2) 6.89E+00- 1.56E+01	CHICKAMAUGA RES TRM 471-530	1.12E+01(2/ 2) 6.89E+00- 1.56E+01	9.30E+00(2/ 2) 8.96E+00- 9.64E+00	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SMALLMOUTH BUFFALO WHOLE
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) 4						
AC-228	1.00E-01	1.30E-01(1/ 2) 1.30E-01- 1.30E-01	CHICKAMAUGA RES TRM 471-530	1.30E-01(1/ 2) 1.30E-01- 1.30E-01	2 VALUES < LLD	
K-40	4.00E-01	5.78E+00(2/ 2) 5.50E+00- 6.06E+00	CHICKAMAUGA RES TRM 471-530	5.78E+00(2/ 2) 5.50E+00- 6.06E+00	6.63E+00(2/ 2) 6.36E+00- 6.89E+00	
PB-212	4.00E-02	8.28E-02(1/ 2) 8.28E-02- 8.28E-02	CHICKAMAUGA RES TRM 471-530	8.28E-02(1/ 2) 8.28E-02- 8.28E-02	2 VALUES < LLD	
TL-208	3.00E-02	3.34E-02(1/ 2) 3.34E-02- 3.34E-02	CHICKAMAUGA RES TRM 471-530	3.34E-02(1/ 2) 3.34E-02- 3.34E-02	2 VALUES < LLD	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) 8						
AC-228	2.50E-01	1.33E+00(6/ 6) 9.05E-01- 1.85E+00	TRM 527.4 0.4 MILES DOWNSTREA	1.38E+00(2/ 2) 9.05E-01- 1.85E+00	1.44E+00(2/ 2) 1.38E+00- 1.50E+00	
BE-7	2.50E-01	5.46E-01(3/ 6) 2.80E-01- 1.02E+00	TRM 496.50	6.52E-01(2/ 2) 2.80E-01- 1.02E+00	7.50E-01(2/ 2) 4.18E-01- 1.08E+00	
BI-212	4.50E-01	1.34E+00(6/ 6) 1.01E+00- 1.83E+00	TRM 527.4 0.4 MILES DOWNSTREA	1.42E+00(2/ 2) 1.01E+00- 1.83E+00	1.52E+00(2/ 2) 1.47E+00- 1.56E+00	
BI-214	1.50E-01	9.22E-01(6/ 6) 6.90E-01- 1.21E+00	TRM 527.4 0.4 MILES DOWNSTREA	9.49E-01(2/ 2) 6.90E-01- 1.21E+00	9.77E-01(2/ 2) 9.52E-01- 1.00E+00	
CO-60	3.00E-02	6 VALUES < LLD	TRM 496.50	2 VALUES < LLD	3.07E-02(1/ 2) 3.07E-02- 3.07E-02	
CS-137	3.00E-02	3.26E-01(6/ 6) 4.12E-02- 8.08E-01	TRM 496.50	7.87E-01(2/ 2) 7.65E-01- 8.08E-01	1.64E+00(2/ 2) 1.60E+00- 1.68E+00	
K-40	7.50E-01	1.34E+01(6/ 6) 1.21E+01- 1.46E+01	TRM 527.4 0.4 MILES DOWNSTREA	1.35E+01(2/ 2) 1.33E+01- 1.37E+01	1.49E+01(2/ 2) 1.38E+01- 1.61E+01	
PB-212	1.00E-01	1.26E+00(6/ 6) 1.01E+00- 1.67E+00	TRM 527.4 0.4 MILES DOWNSTREA	1.34E+00(2/ 2) 1.01E+00- 1.67E+00	1.38E+00(2/ 2) 1.34E+00- 1.42E+00	
PB-214	1.50E-01	1.01E+00(6/ 6) 7.79E-01- 1.35E+00	TRM 527.4 0.4 MILES DOWNSTREA	1.06E+00(2/ 2) 7.79E-01- 1.35E+00	1.08E+00(2/ 2) 1.06E+00- 1.09E+00	
RA-224	7.50E-01	1.43E+00(4/ 6) 1.18E+00- 1.88E+00	TRM 527.4 0.4 MILES DOWNSTREA	1.53E+00(2/ 2) 1.18E+00- 1.88E+00	1.51E+00(1/ 2) 1.51E+00- 1.51E+00	
RA-226	1.50E-01	9.22E-01(6/ 6) 6.90E-01- 1.21E+00	TRM 527.4 0.4 MILES DOWNSTREA	9.49E-01(2/ 2) 6.90E-01- 1.21E+00	9.77E-01(2/ 2) 9.52E-01- 1.00E+00	
TL-208	6.00E-02	4.16E-01(6/ 6) 3.06E-01- 5.67E-01	TRM 527.4 0.4 MILES DOWNSTREA	4.37E-01(2/ 2) 3.06E-01- 5.67E-01	4.78E-01(2/ 2) 4.61E-01- 4.96E-01	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN SHORELINE SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) 4						
AC-228	2.50E-01	9.59E-01(2/ 2)	COTTON PORT MARINA	9.59E-01(2/ 2)	9.43E-01(2/ 2)	
		6.05E-01- 1.31E+00	TRM 513	6.05E-01- 1.31E+00	8.34E-01- 1.05E+00	
BI-212	4.50E-01	1.01E+00(2/ 2)	COTTON PORT MARINA	1.01E+00(2/ 2)	9.29E-01(2/ 2)	
		6.94E-01- 1.33E+00	TRM 513	6.94E-01- 1.33E+00	7.11E-01- 1.15E+00	
BI-214	1.50E-01	6.68E-01(2/ 2)	COTTON PORT MARINA	6.68E-01(2/ 2)	6.60E-01(2/ 2)	
		6.13E-01- 7.24E-01	TRM 513	6.13E-01- 7.24E-01	5.40E-01- 7.80E-01	
CS-137	3.00E-02	1.13E-01(2/ 2)	COTTON PORT MARINA	1.13E-01(2/ 2)	3.87E-02(1/ 2)	
		4.74E-02- 1.78E-01	TRM 513	4.74E-02- 1.78E-01	3.87E-02- 3.87E-02	
K-40	7.50E-01	1.14E+01(2/ 2)	COTTON PORT MARINA	1.14E+01(2/ 2)	2.80E+00(2/ 2)	
		2.77E+00- 2.00E+01	TRM 513	2.77E+00- 2.00E+01	1.09E+00- 4.50E+00	
PB-212	1.00E-01	9.45E-01(2/ 2)	COTTON PORT MARINA	9.45E-01(2/ 2)	9.56E-01(2/ 2)	
		5.59E-01- 1.33E+00	TRM 513	5.59E-01- 1.33E+00	7.57E-01- 1.15E+00	
PB-214	1.50E-01	7.45E-01(2/ 2)	COTTON PORT MARINA	7.45E-01(2/ 2)	7.32E-01(2/ 2)	
		7.00E-01- 7.90E-01	TRM 513	7.00E-01- 7.90E-01	6.25E-01- 8.39E-01	
RA-224	7.50E-01	1.40E+00(1/ 2)	COTTON PORT MARINA	1.40E+00(1/ 2)	2 VALUES < LLD	
		1.40E+00- 1.40E+00	TRM 513	1.40E+00- 1.40E+00		
RA-226	1.50E-01	6.68E-01(2/ 2)	COTTON PORT MARINA	6.68E-01(2/ 2)	6.60E-01(2/ 2)	
		6.13E-01- 7.24E-01	TRM 513	6.13E-01- 7.24E-01	5.40E-01- 7.80E-01	
TL-208	6.00E-02	2.96E-01(2/ 2)	COTTON PORT MARINA	2.96E-01(2/ 2)	3.20E-01(2/ 2)	
		1.91E-01- 4.02E-01	TRM 513	1.91E-01- 4.02E-01	2.45E-01- 3.95E-01	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN POND SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST ANNUAL MEAN NAME DISTANCE AND DIRECTION	MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) 18						
AC-228	2.50E-01	1.23E+00(18/ 18)	YP-14	1.89E+00(1/ 1)	0 VALUES < LLD	
		7.50E-01- 1.89E+00	YARD POND	1.89E+00- 1.89E+00		
BE-7	2.50E-01	4.43E-01(11/ 18)	LV-2	8.23E-01(1/ 1)	0 VALUES < LLD	
		2.71E-01- 8.23E-01	LOW VOL WASTE POND	8.23E-01- 8.23E-01		
BI-212	4.50E-01	1.25E+00(18/ 18)	LV-3	2.06E+00(1/ 1)	0 VALUES < LLD	
		6.77E-01- 2.06E+00	LOW VOL WASTE POND	2.06E+00- 2.06E+00		
BI-214	1.50E-01	8.13E-01(18/ 18)	YP-14	1.13E+00(1/ 1)	0 VALUES < LLD	
		5.03E-01- 1.13E+00	YARD POND	1.13E+00- 1.13E+00		
CS-137	3.00E-02	1.39E-01(16/ 18)	YP-15	3.84E-01(1/ 1)	0 VALUES < LLD	
		3.93E-02- 3.84E-01	YARD POND	3.84E-01- 3.84E-01		
K-40	7.50E-01	1.33E+01(18/ 18)	YP-15	1.79E+01(1/ 1)	0 VALUES < LLD	
		8.73E+00- 1.79E+01	YARD POND	1.79E+01- 1.79E+01		
PB-212	1.00E-01	1.17E+00(18/ 18)	YP-14	1.74E+00(1/ 1)	0 VALUES < LLD	
		6.88E-01- 1.74E+00	YARD POND	1.74E+00- 1.74E+00		
PB-214	1.50E-01	8.83E-01(18/ 18)	YP-14	1.18E+00(1/ 1)	0 VALUES < LLD	
		5.48E-01- 1.18E+00	YARD POND	1.18E+00- 1.18E+00		
RA-224	7.50E-01	1.30E+00(13/ 18)	LV-3	1.89E+00(1/ 1)	0 VALUES < LLD	
		9.48E-01- 1.89E+00	LOW VOL WASTE POND	1.89E+00- 1.89E+00		
TL-208	6.00E-02	3.91E-01(18/ 18)	YP-14	6.06E-01(1/ 1)	0 VALUES < LLD	
		2.16E-01- 6.06E-01	YARD POND	6.06E-01- 6.06E-01		

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

RADIOACTIVITY IN CLAM FLESH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

NAME OF FACILITY: WATTS BAR NUCLEAR PLANT
LOCATION OF FACILITY: RHEA TENNESSEE

DOCKET NO.: 50-390,391
REPORTING PERIOD: 1995

TYPE AND TOTAL NUMBER OF ANALYSIS PERFORMED	LOWER LIMIT OF DETECTION (LLD) SEE NOTE 1	ALL INDICATOR LOCATIONS MEAN (F) RANGE SEE NOTE 2	LOCATION WITH HIGHEST NAME DISTANCE AND DIRECTION	ANNUAL MEAN MEAN (F) RANGE SEE NOTE 2	CONTROL LOCATIONS MEAN (F) RANGE SEE NOTE 2	NUMBER OF NONROUTINE REPORTED MEASUREMENTS
GAMMA SCAN (GELI) 4						
BI-214	5.00E-01	6.72E-01(1/ 2) 6.72E-01- 6.72E-01	DOWNSTREAM	6.72E-01(1/ 2) 6.72E-01- 6.72E-01	8.96E-01(1/ 2) 8.96E-01- 8.96E-01	
PB-214	1.00E-01	7.80E-01(1/ 2) 7.80E-01- 7.80E-01	DOWNSTREAM	7.80E-01(1/ 2) 7.80E-01- 7.80E-01	8.09E-01(1/ 2) 8.09E-01- 8.09E-01	

NOTE: 1. NOMINAL LOWER LIMIT OF DETECTION (LLD) AS DESCRIBED IN TABLE E-1 .
NOTE: 2. MEAN AND RANGE BASED UPON DETECTABLE MEASUREMENTS ONLY. FRACTION OF DETECTABLE MEASUREMENTS AT SPECIFIED LOCATIONS IS INDICATED IN PARENTHESES (F).

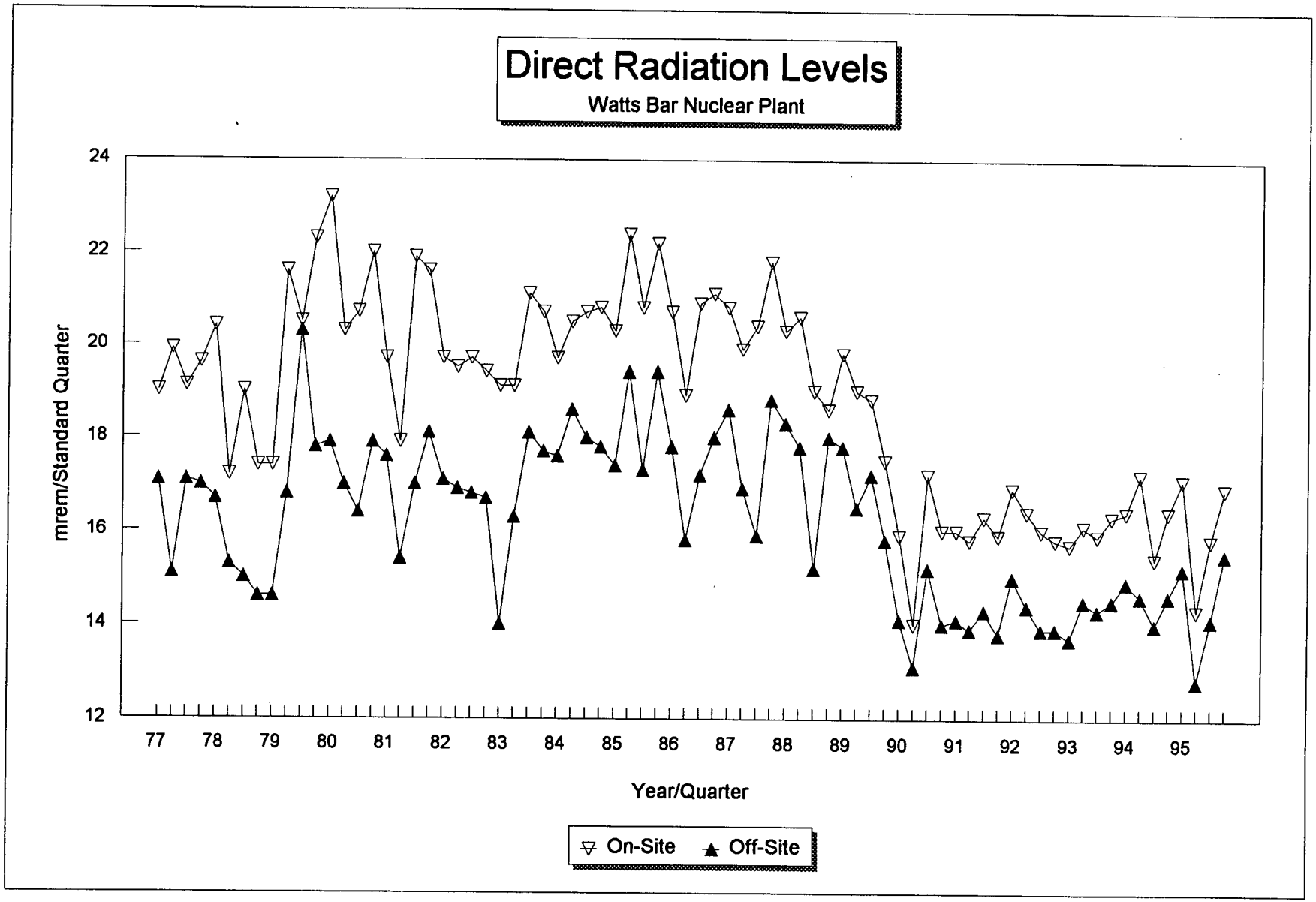

Direct Radiation Levels
Watts Bar Nuclear Plant
mrem/Standard Quarter
24
22
20
18
16
14
12
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year/Quarter
On-Site
Off-Site

FIGURE H-1

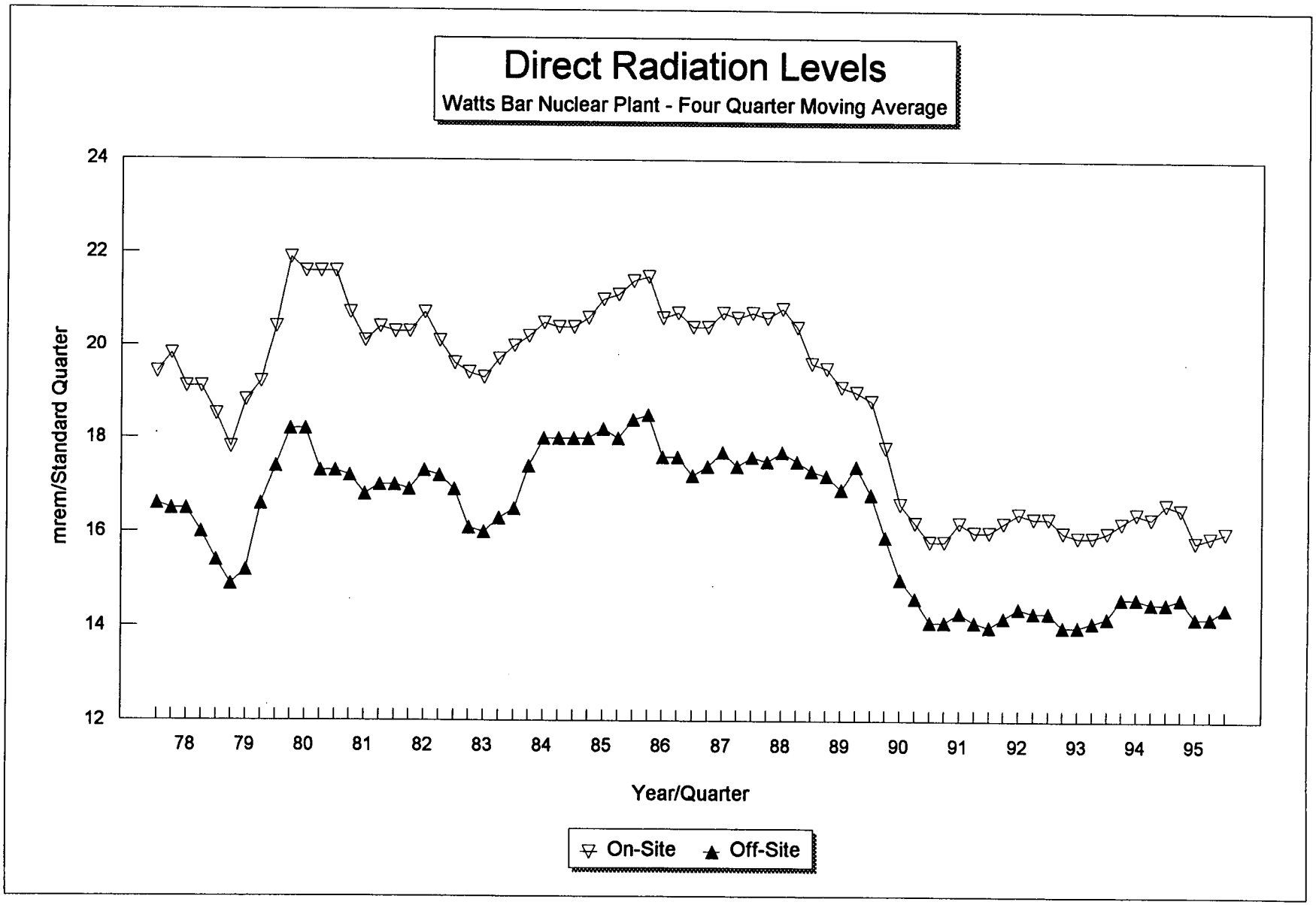

Direct Radiation Levels
Watts Bar Nuclear Plant - Four Quarter Moving Average
mrem/Standard Quarter
24
22
20
18
16
14
12
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year/Quarter
On-Site
Off-Site

FIGURE H-2

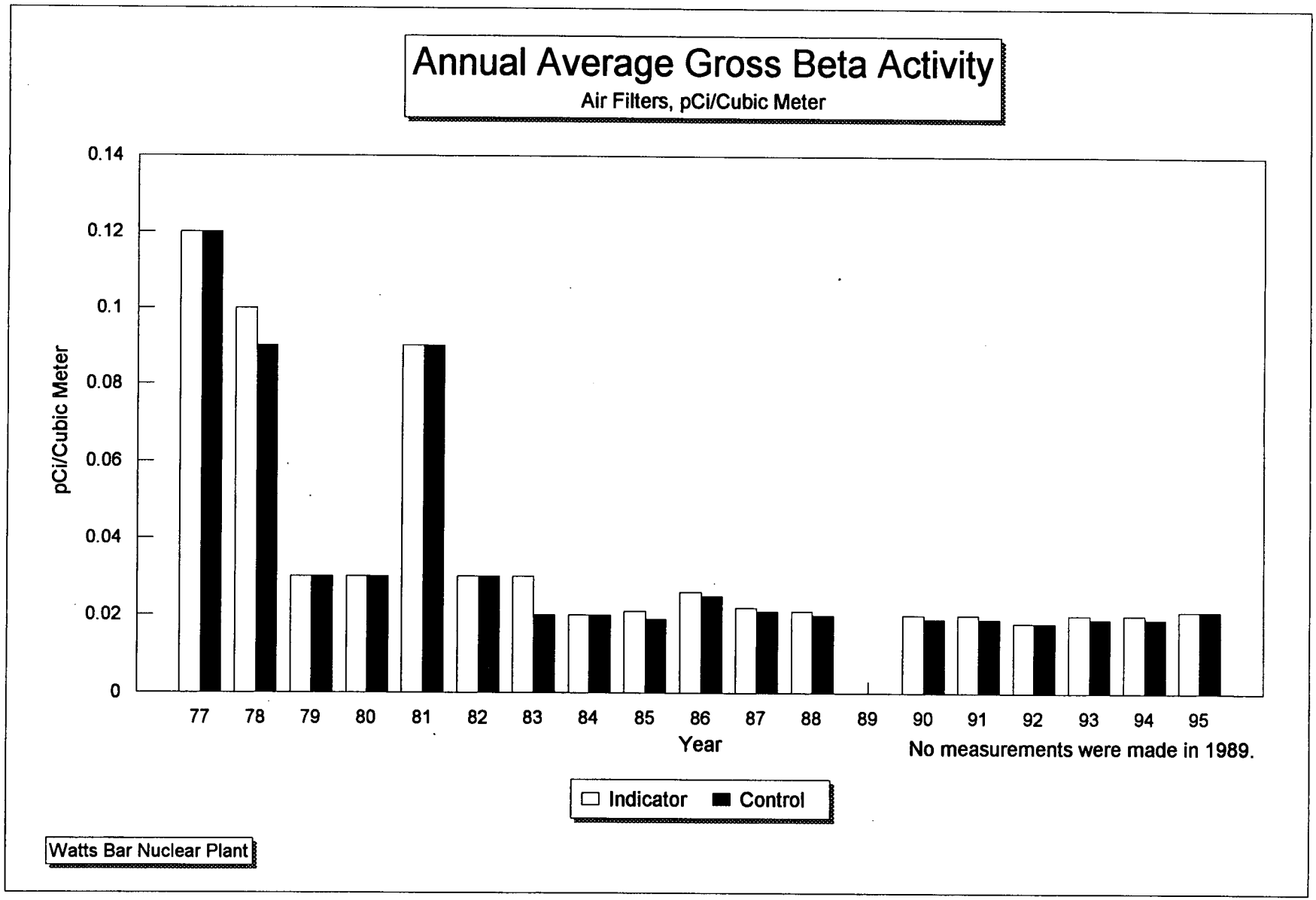

Annual Average Gross Beta Activity
Air Filters, pCi/Cubic Meter
pCi/Cubic Meter
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95
Year
No measurements were made in 1989.
Indicator
Control
Watts Bar Nuclear Plant

FIGURE H-3

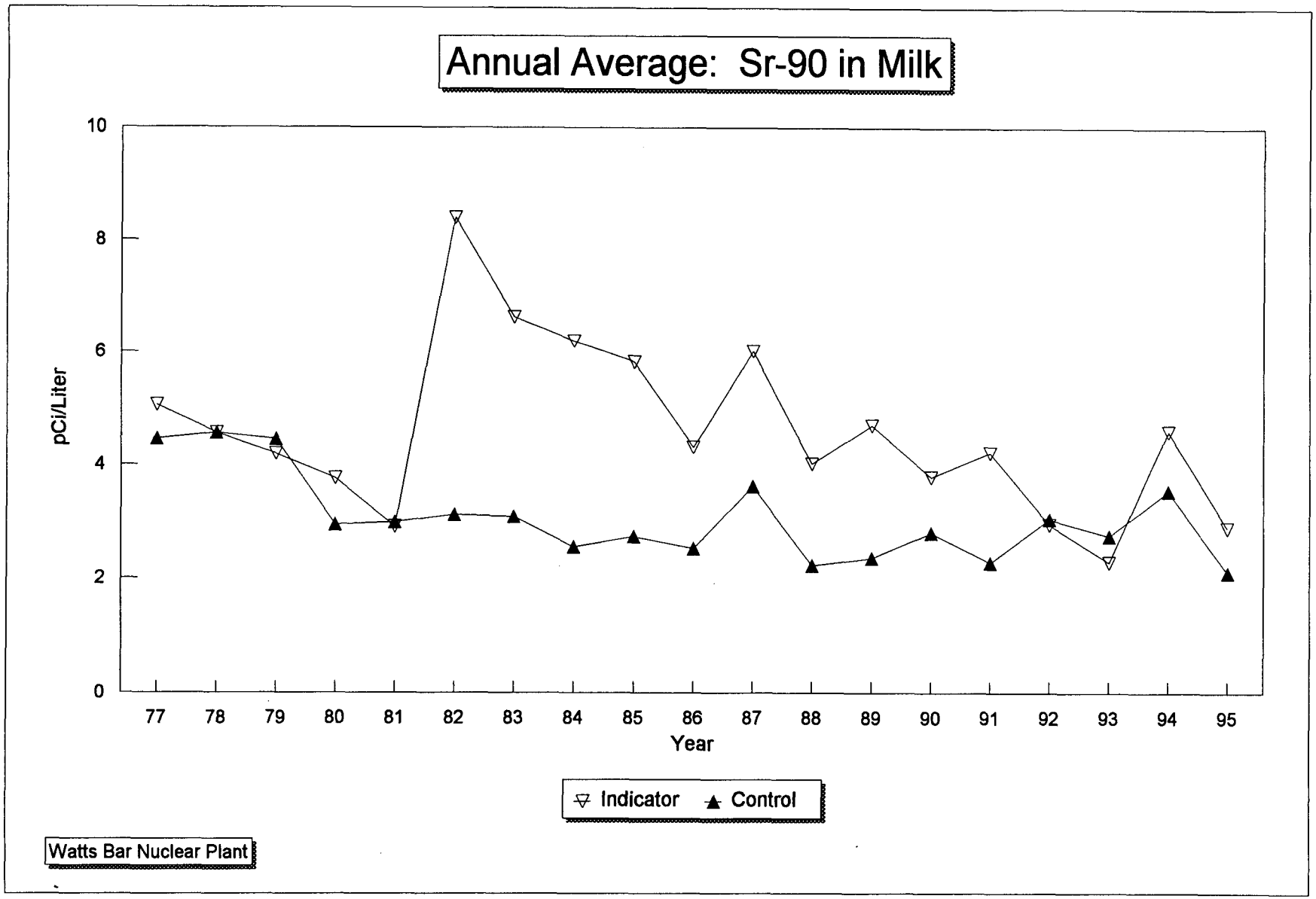

Annual Average: Sr-90 in Milk
pCi/Liter
10
8
6
4
2
0
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year
Indicator
Control
Watts Bar Nuclear Plant

FIGURE H-4

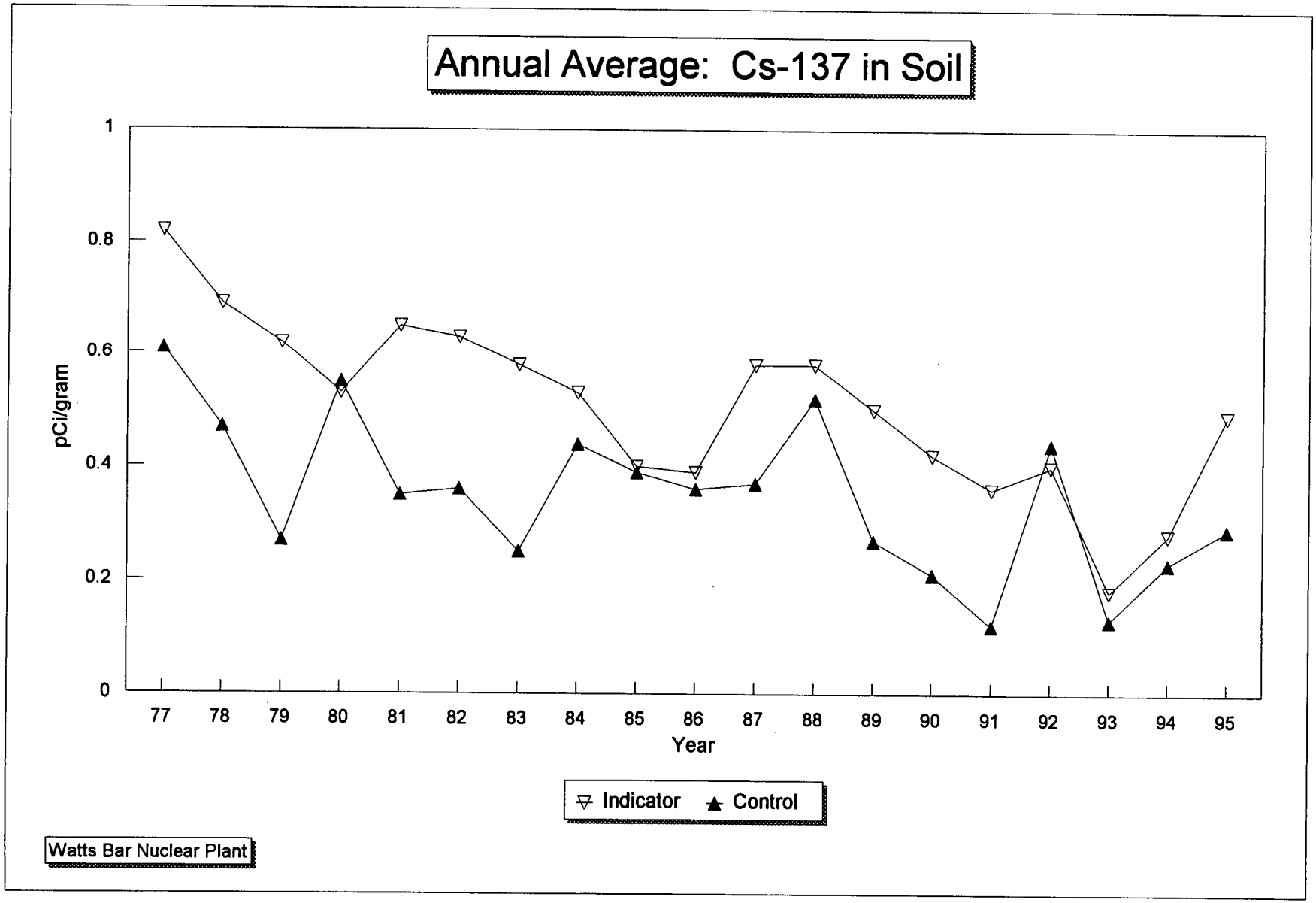

Annual Average: Cs-137 in Soil
pCi/gram
1
0.8
0.6
0.4
0.2
0
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year
Indicator
Control
Watts Bar Nuclear Plant

FIGURE H-5

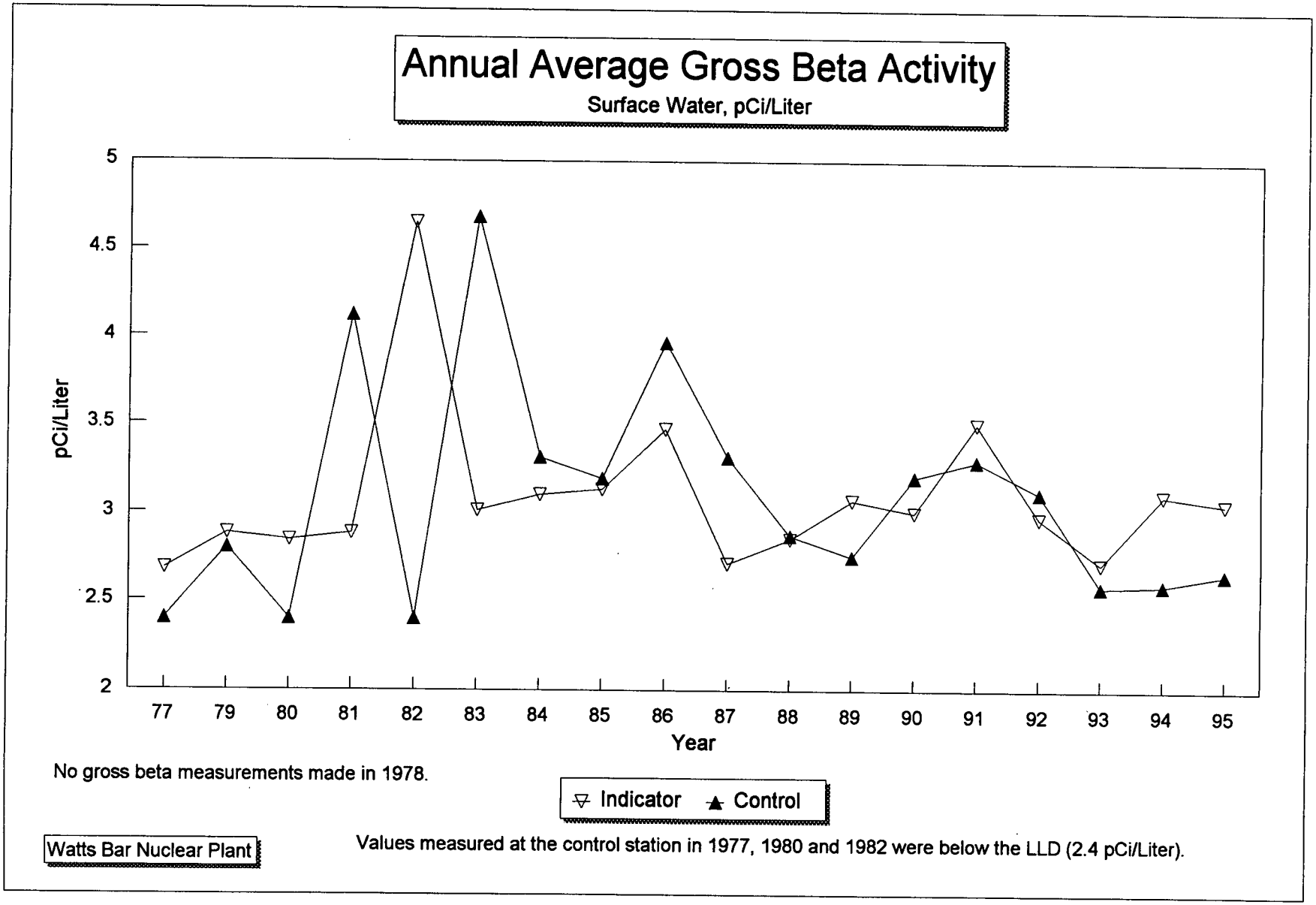

Annual Average Gross Beta Activity
Surface Water, pCi/Liter
pCi/Liter
5
4.5
4
3.5
3
2.5
2
77
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year
No gross beta measurements made in 1978.
Indicator
Control
Watts Bar Nuclear Plant
Values measured at the control station in 1977, 1980 and 1982 were below the LLD (2.4 pCi/Liter).

FIGURE H-6

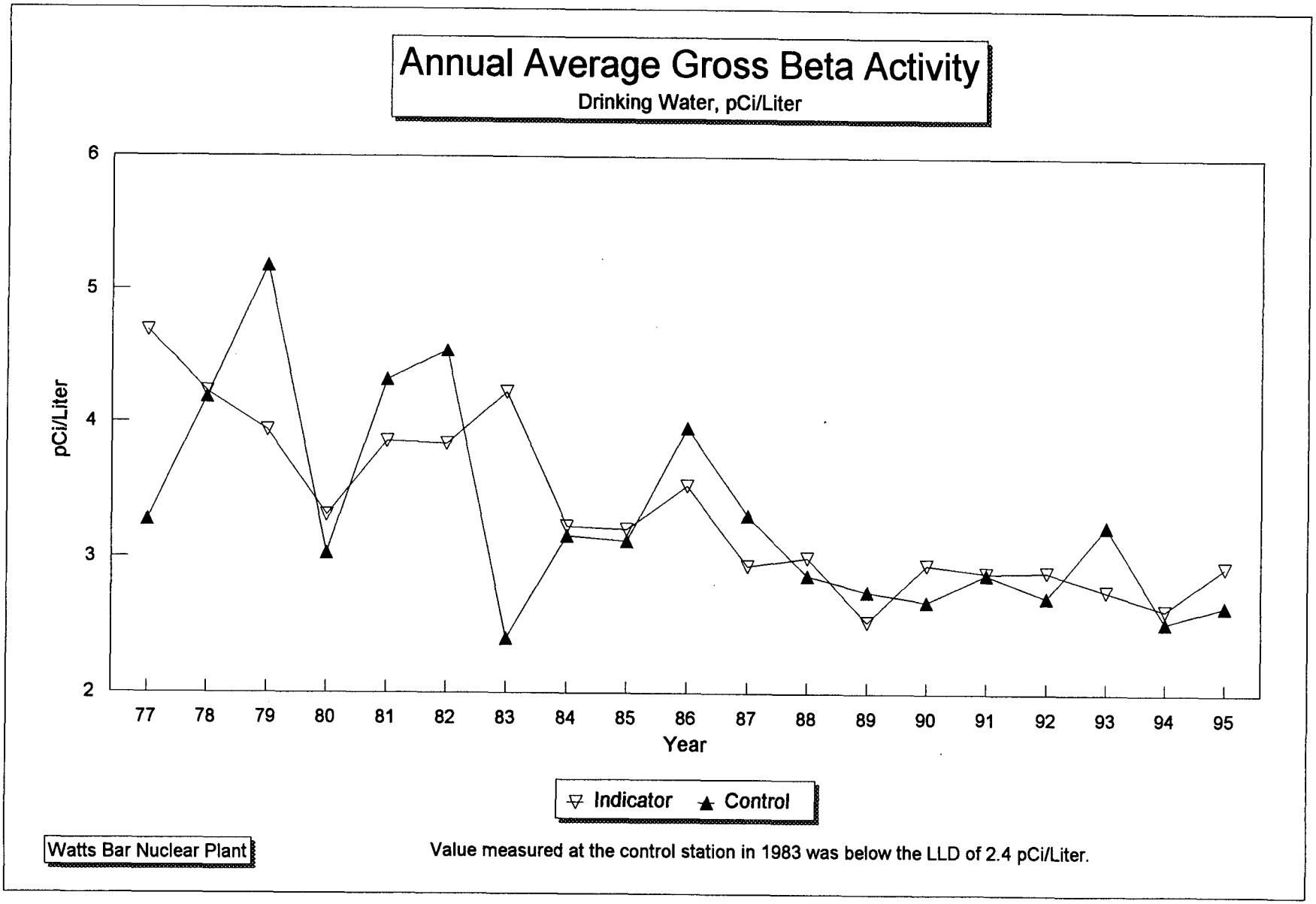

Annual Average Gross Beta Activity
Drinking Water, pCi/Liter
pCi/Liter
6
5
4
3
2
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year
Indicator
Control
Watts Bar Nuclear Plant
Value measured at the control station in 1983 was below the LLD of 2.4 pCi/Liter.

FIGURE H-7

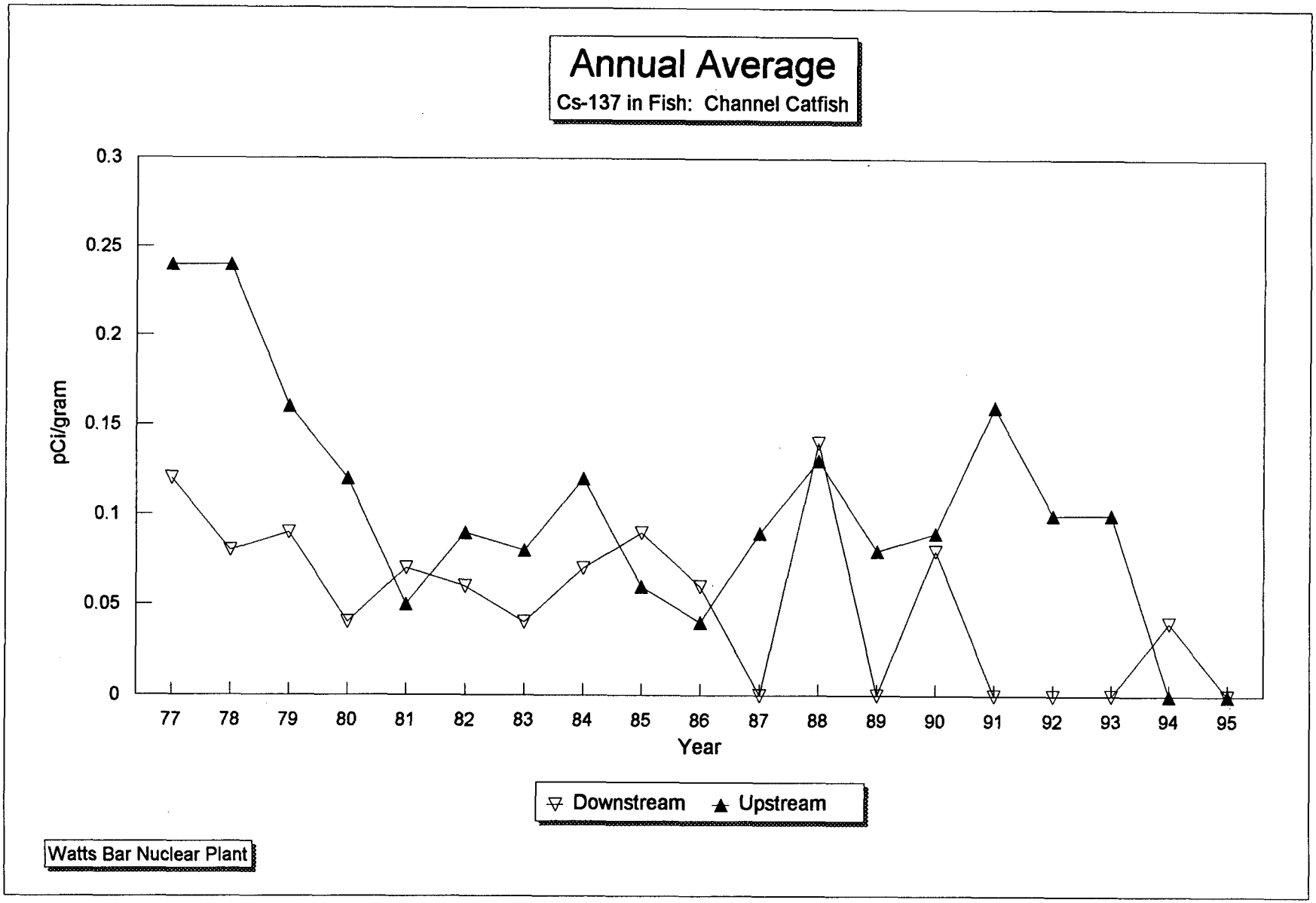

Annual Average
Cs-137 in Fish: Channel Catfish
0.3
0.25
0.2
0.15
0.1
0.05
0
pCi/gram
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year
Downstream
Upstream
Watts Bar Nuclear Plant

FIGURE H-8

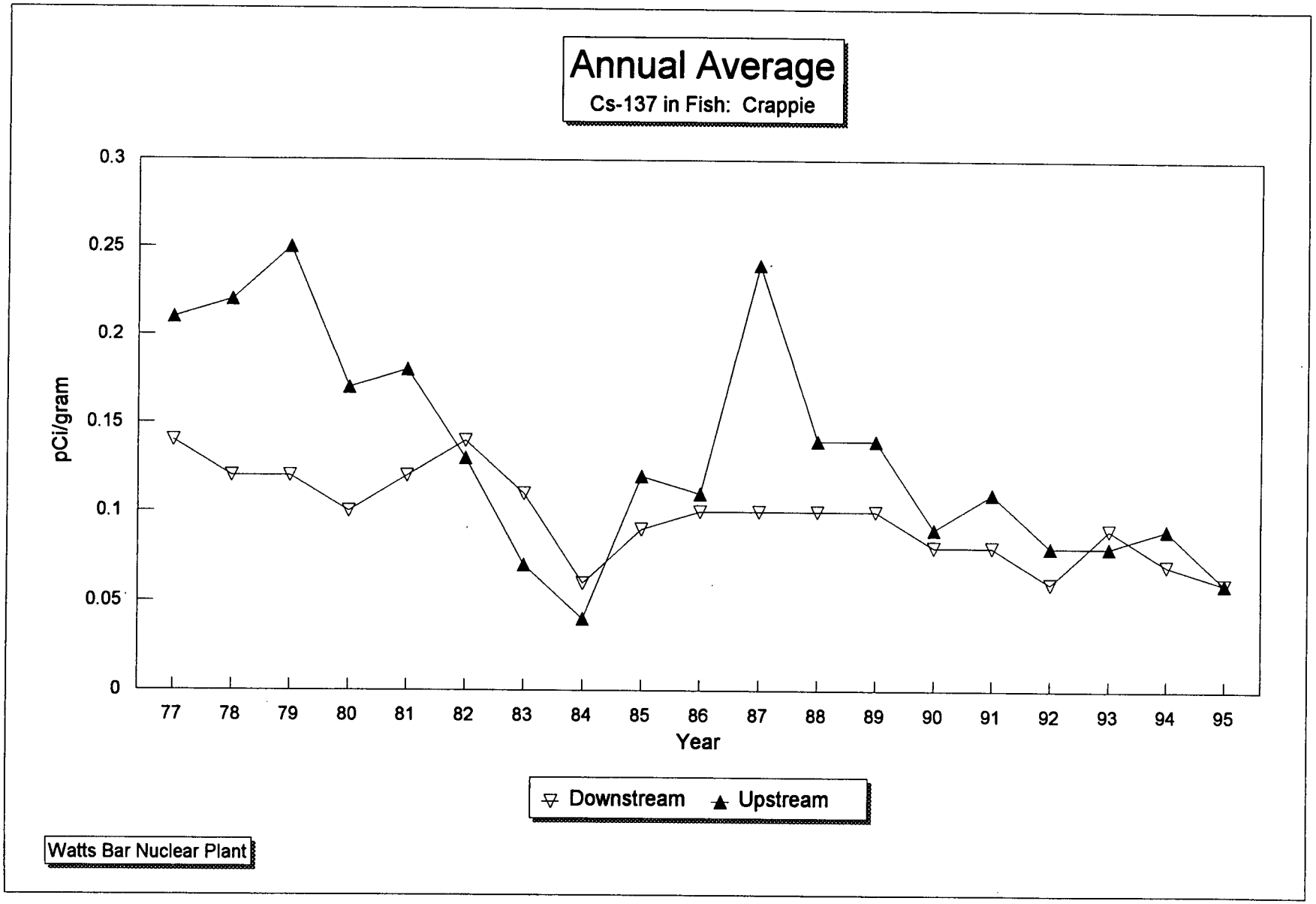

Annual Average
Cs-137 in Fish: Crappie
pCi/gram
0.3
0.25
0.2
0.15
0.1
0.05
0
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year
Downstream
Upstream
Watts Bar Nuclear Plant

FIGURE H-9

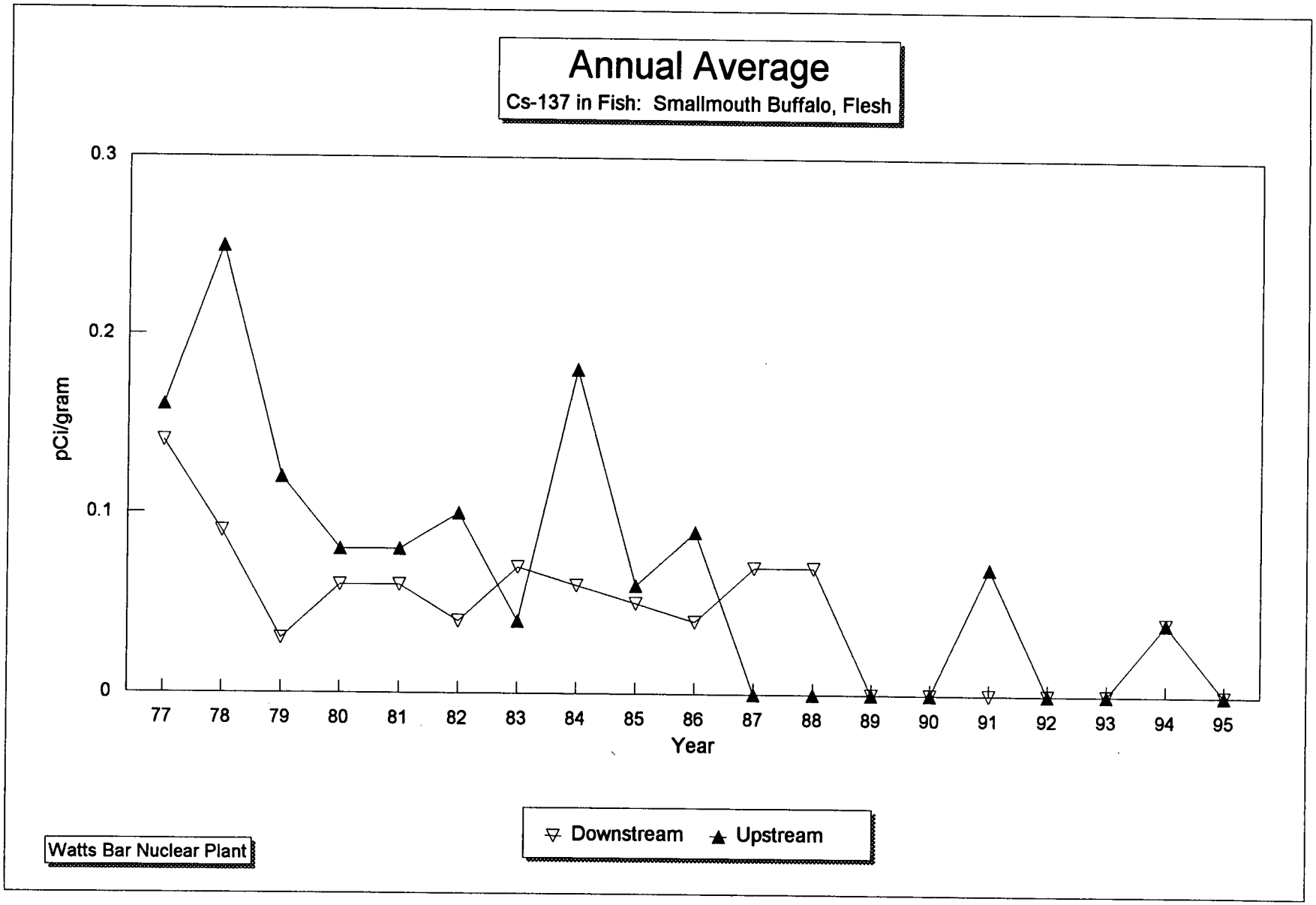

Annual Average
Cs-137 in Fish: Smallmouth Buffalo, Flesh
0.3
0.2
0.1
0
pCi/gram
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year
Downstream
Upstream
Watts Bar Nuclear Plant

FIGURE H-10

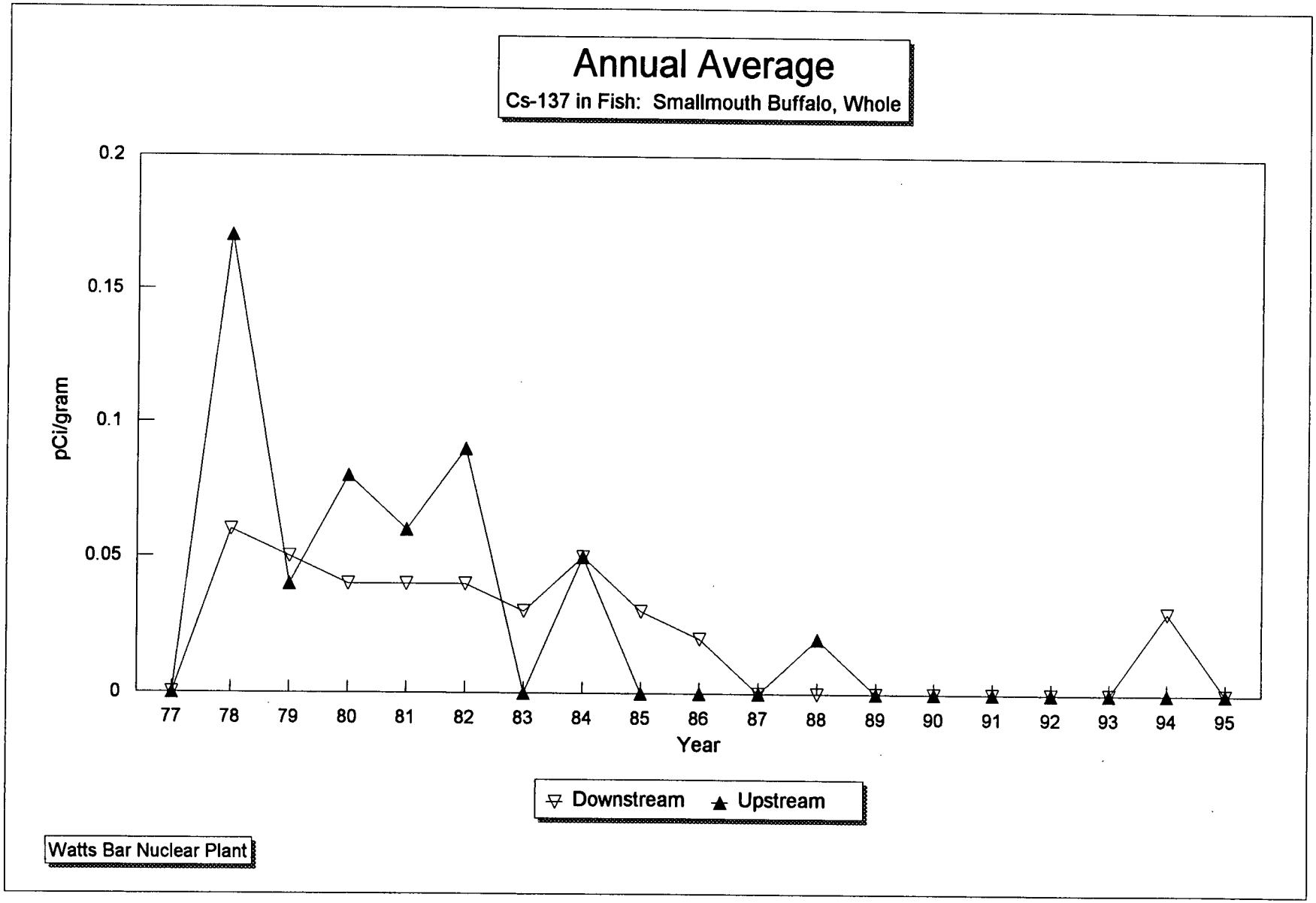

Annual Average
Cs-137 in Fish: Smallmouth Buffalo, Whole
0.2
0.15
0.1
0.05
0
pCi/gram
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year
Downstream
Upstream
Watts Bar Nuclear Plant

FIGURE H-11

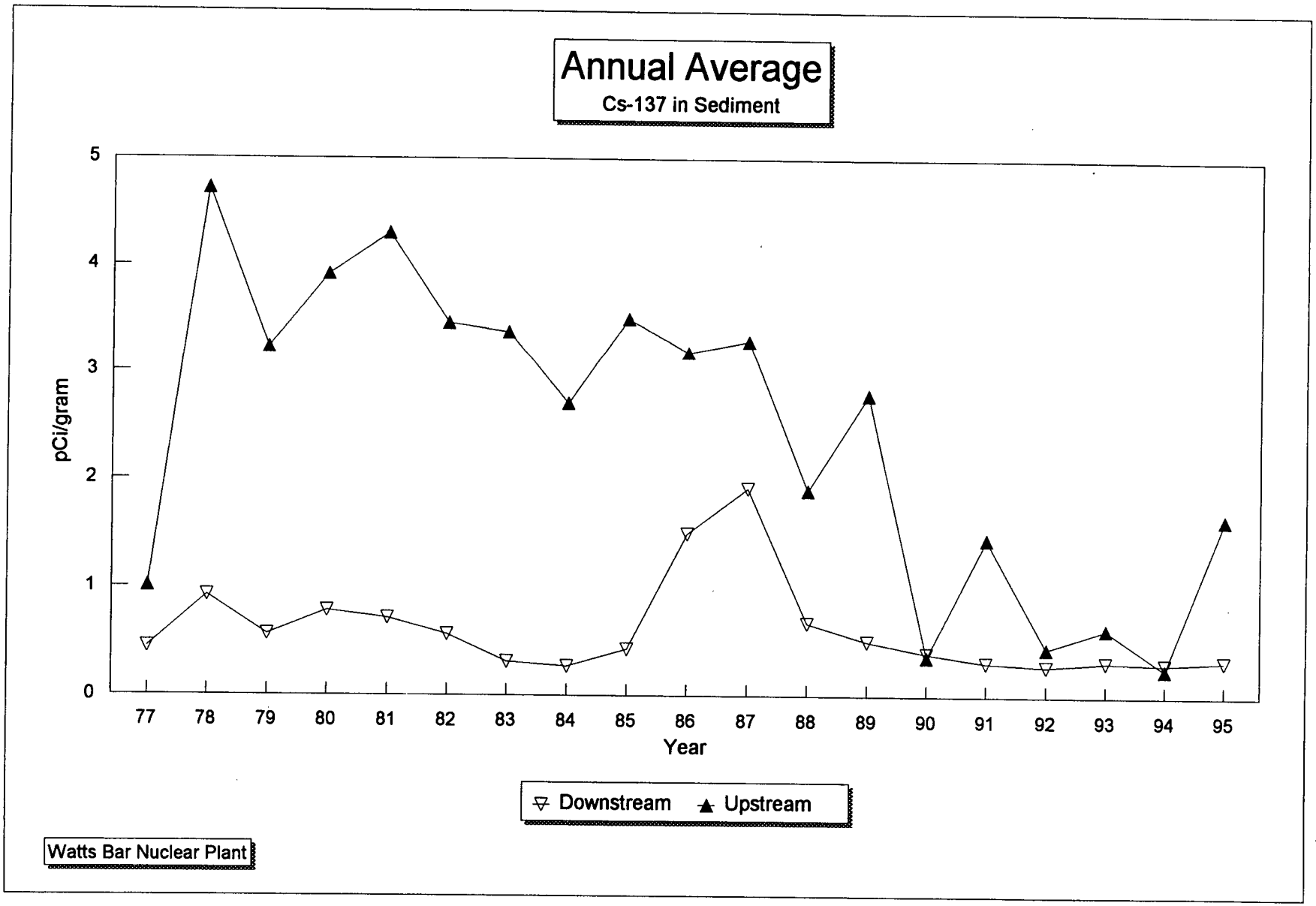

Annual Average
Cs-137 in Sediment
pCi/gram
0
1
2
3
4
5
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year
Downstream
Upstream
Watts Bar Nuclear Plant

FIGURE H-12

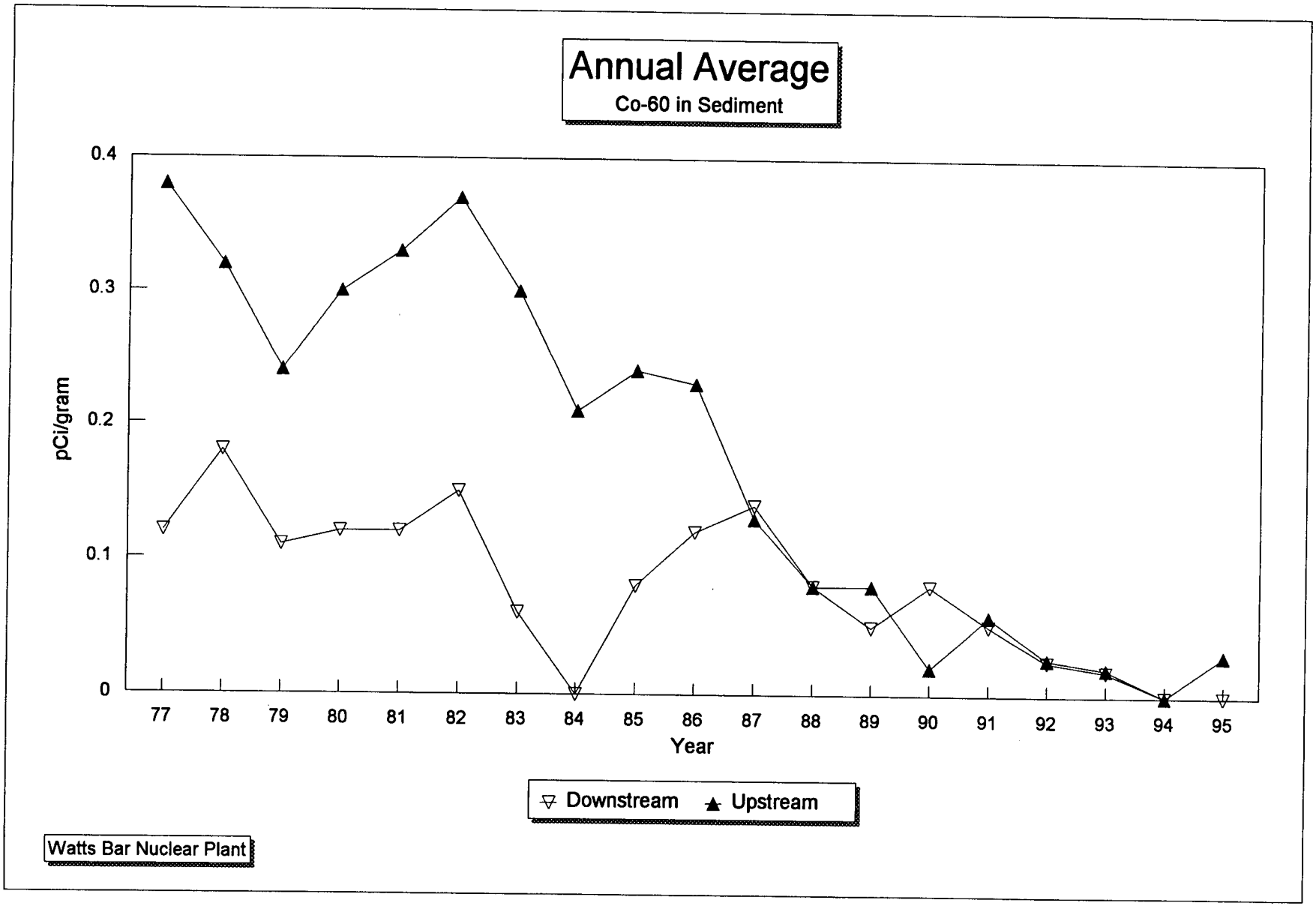

Annual Average
Co-60 in Sediment
0.4
0.3
0.2
0.1
0
pCi/gram
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year
Downstream
Upstream
Watts Bar Nuclear Plant

FIGURE H-13

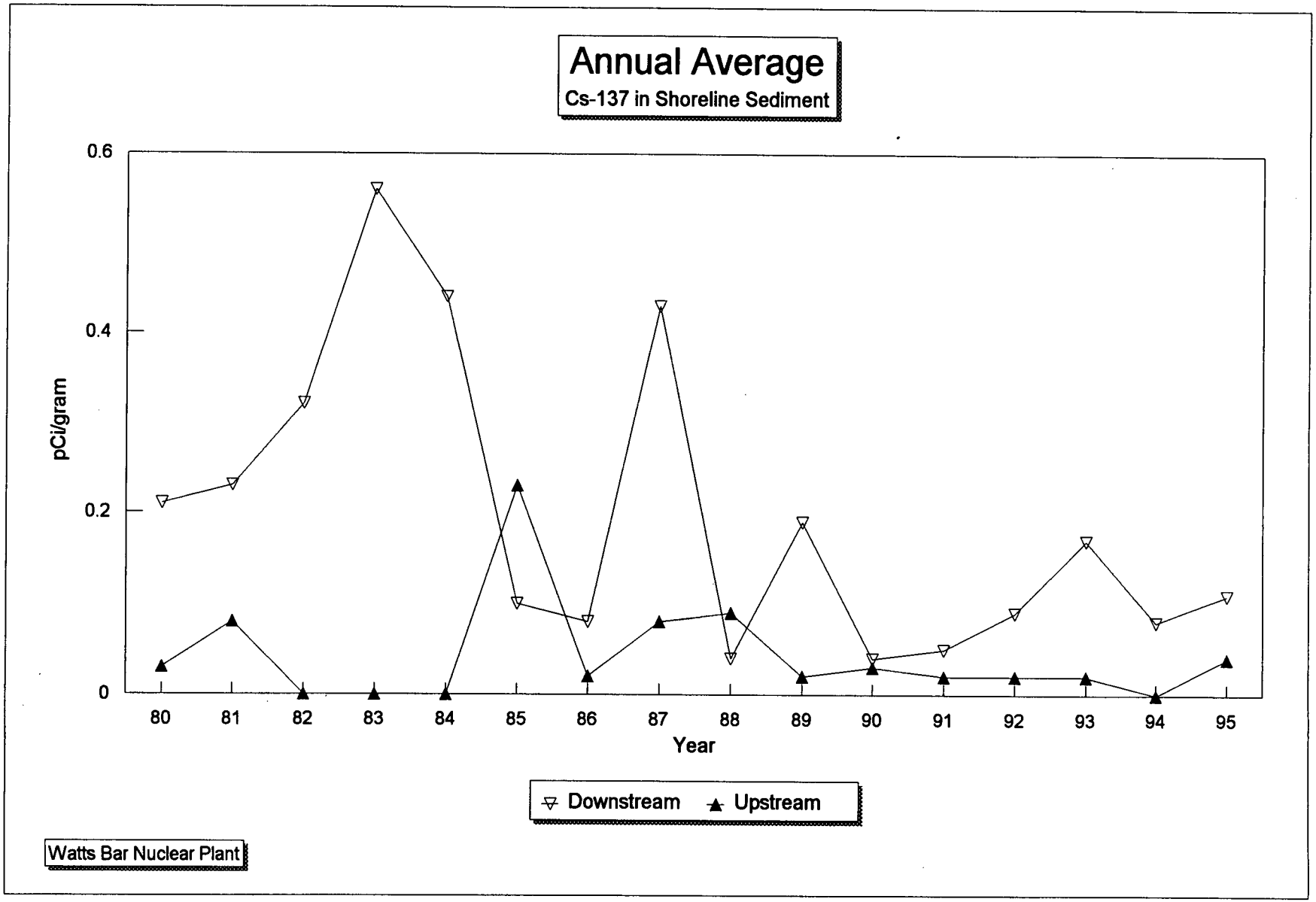

Annual Average
Cs-137 in Shoreline Sediment
0.6
0.4
0.2
0
pCi/gram
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
Year
Downstream
Upstream
Watts Bar Nuclear Plant

FIGURE H-14

Annual Radiological Environmental Operating Report

Data Supplement

Watts Bar
Nuclear Plant
1995

ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT
WATTS BAR NUCLEAR PLANT
DATA SUPPLEMENT

1995

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION

April 1996

RADIOLOGICAL ENVIRONMENTAL MONITORING DATA
WATTS BAR NUCLEAR PLANT

1995

This supplement to the Watts Bar Nuclear Plant Annual Radiological Environmental Operating Report (AREOR) presents the results of individual sample analyses and radiation measurements. The results are ordered by sample type then by sample location and analysis type. If no gamma activity was detected in a sample, the notation 'NO ACTIVITY DETECTED' is entered in place of the activity. The sample locations are described in Appendix A to the AREOR.

These tables include all results, whether above or below the Lower Limit of Detection. Negative values are an artifact of counting statistics and do not imply a negative activity.

The uncertainty reported for specific analyses such as gross alpha, gross beta, Sr-89 and 90 and tritium is the one-sigma counting error. For gamma analyses, the uncertainty reported is the one-sigma error calculated by the gamma spectral analysis software.

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GROSS BETA				
			+0.0275	+0.0030	01/03/95	500060
			+0.0254	+0.0027	01/10/95	500160
			+0.0180	+0.0020	01/17/95	500283
			+0.0177	+0.0020	01/24/95	500398
			+0.0221	+0.0024	01/31/95	500587
			+0.0229	+0.0025	02/07/95	500694
			+0.0223	+0.0024	02/14/95	500828
			+0.0127	+0.0015	02/21/95	500945
			+0.0156	+0.0018	02/28/95	501104
			+0.0143	+0.0016	03/07/95	501204
			+0.0232	+0.0025	03/14/95	501335
			+0.0244	+0.0027	03/21/95	501462
			+0.0174	+0.0019	03/28/95	501648
			+0.0181	+0.0020	04/04/95	501758
			+0.0188	+0.0021	04/11/95	501902
			+0.0171	+0.0019	04/18/95	502004
			+0.0150	+0.0017	04/25/95	502156
			+0.0140	+0.0016	05/02/95	502314
			+0.0168	+0.0019	05/09/95	502512
			+0.0152	+0.0017	05/16/95	502620
			+0.0204	+0.0022	05/23/95	502809
			+0.0191	+0.0021	05/30/95	502949
			+0.0152	+0.0017	06/06/95	503089
			+0.0185	+0.0021	06/13/95	503197
			+0.0224	+0.0024	06/20/95	503418
			+0.0179	+0.0020	06/27/95	503562
			+0.0220	+0.0024	07/05/95	503716
			+0.0236	+0.0026	07/11/95	503828
			+0.0311	+0.0033	07/18/95	503978
			+0.0196	+0.0022	07/25/95	504084
			+0.0171	+0.0019	08/01/95	504213
			+0.0115	+0.0014	08/08/95	504366
			+0.0256	+0.0028	08/15/95	504523
			+0.0267	+0.0029	08/22/95	504622
			+0.0244	+0.0026	08/29/95	504773
			+0.0312	+0.0033	09/05/95	504878
			+0.0403	+0.0042	09/12/95	505060
			+0.0256	+0.0028	09/19/95	505166

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GROSS BETA				
			+0.0217	+0.0024	09/26/95	505306
			+0.0324	+0.0034	10/03/95	505422
			+0.0153	+0.0018	10/10/95	505591
			+0.0299	+0.0032	10/17/95	505724
			+0.0232	+0.0025	10/24/95	505880
			+0.0213	+0.0023	10/31/95	506025
			+0.0240	+0.0026	11/07/95	506248
			+0.0216	+0.0024	11/14/95	506349
			+0.0295	+0.0032	11/20/95	506488
			+0.0286	+0.0030	11/28/95	506611
			+0.0250	+0.0027	12/05/95	506761
			+0.0244	+0.0027	12/12/95	506871
			+0.0256	+0.0028	12/19/95	506998
			+0.0180	+0.0020	12/26/95	507121
		GAMMA SCAN (GELI)				
		BE-7	+0.0820	+0.0095	01/24/95	500471
			+0.0940	+0.0083	02/21/95	501018
			+0.1255	+0.0098	03/21/95	501543
			+0.1233	+0.0098	04/18/95	502078
			+0.0933	+0.0087	05/16/95	502703
			+0.1265	+0.0111	06/13/95	503287
			+0.1459	+0.0113	07/11/95	503900
			+0.1083	+0.0089	08/08/95	504437
			+0.0979	+0.0079	09/05/95	504958
			+0.1122	+0.0100	10/03/95	505495
			+0.0982	+0.0089	10/31/95	506127
			+0.0952	+0.0099	11/28/95	506683
			+0.0763	+0.0072	12/26/95	507201
		BI-214	+0.0007	+0.0009	05/16/95	502703
			+0.0057	+0.0013	08/08/95	504437
			+0.0062	+0.0011	09/05/95	504958
			+0.0209	+0.0021	10/03/95	505495
			+0.0061	+0.0012	10/31/95	506127
			+0.0049	+0.0012	12/26/95	507201
		K-40	+0.0102	+0.0066	06/13/95	503287
		PB-214	+0.0015	+0.0009	05/16/95	502703
			+0.0001	+0.0008	06/13/95	503287

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GAMMA SCAN (GELI) PB-214				
			+0.0065	+0.0012	08/08/95	504437
			+0.0046	+0.0010	09/05/95	504958
			+0.0231	+0.0020	10/03/95	505495
			+0.0056	+0.0012	10/31/95	506127
			+0.0069	+0.0014	12/26/95	507201
3101 LM1 ENV DATA STA	0.5 MILES SSW	GROSS BETA				
			+0.0285	+0.0031	01/03/95	500084
			+0.0274	+0.0029	01/10/95	500187
			+0.0186	+0.0021	01/17/95	500300
			+0.0137	+0.0016	01/24/95	500431
			+0.0228	+0.0025	01/31/95	500611
			+0.0235	+0.0025	02/07/95	500721
			+0.0190	+0.0021	02/14/95	500845
			+0.0126	+0.0015	02/21/95	500979
			+0.0167	+0.0019	02/28/95	501128
			+0.0134	+0.0016	03/07/95	501231
			+0.0236	+0.0026	03/14/95	501352
			+0.0239	+0.0026	03/21/95	501498
			+0.0166	+0.0019	03/28/95	501672
			+0.0172	+0.0019	04/04/95	501785
			+0.0186	+0.0021	04/11/95	501919
			+0.0167	+0.0019	04/18/95	502038
			+0.0127	+0.0015	04/25/95	502180
			+0.0159	+0.0018	05/02/95	502369
			+0.0163	+0.0018	05/09/95	502529
			+0.0117	+0.0014	05/16/95	502665
			+0.0155	+0.0018	05/23/95	502833
			+0.0203	+0.0022	05/30/95	502976
			+0.0151	+0.0017	06/06/95	503106
			+0.0172	+0.0019	06/13/95	503232
			+0.0199	+0.0022	06/20/95	503442
			+0.0158	+0.0018	06/27/95	503589
			+0.0153	+0.0017	07/05/95	503733
			+0.0192	+0.0022	07/11/95	503862
			+0.0279	+0.0030	07/18/95	504002
			+0.0182	+0.0020	07/25/95	504111
			+0.0154	+0.0018	08/01/95	504230

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3101 LM1 ENV DATA STA	0.5 MILES SSW	GROSS BETA				
			+0.0094	+0.0012	08/08/95	504399
			+0.0228	+0.0025	08/15/95	504547
			+0.0270	+0.0029	08/22/95	504649
			+0.0199	+0.0022	08/29/95	504790
			+0.0284	+0.0030	09/05/95	504914
			+0.0411	+0.0043	09/12/95	505084
			+0.0233	+0.0025	09/19/95	505193
			+0.0159	+0.0018	09/26/95	505323
			+0.0257	+0.0028	10/03/95	505456
			+0.0165	+0.0019	10/10/95	505615
			+0.0293	+0.0031	10/17/95	505752
			+0.0221	+0.0024	10/24/95	505897
			+0.0208	+0.0023	10/31/95	506081
			+0.0224	+0.0024	11/07/95	506272
			+0.0210	+0.0023	11/14/95	506375
			+0.0272	+0.0029	11/20/95	506505
			+0.0280	+0.0030	11/28/95	506645
			+0.0199	+0.0022	12/05/95	506785
			+0.0212	+0.0023	12/12/95	506898
			+0.0235	+0.0026	12/19/95	507015
			+0.0152	+0.0017	12/26/95	507157
		GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		03/21/95	501550
		BE-7	+0.0631	+0.0047	01/24/95	500478
			+0.0899	+0.0097	02/21/95	501025
			+0.1035	+0.0097	04/18/95	502085
			+0.0844	+0.0092	05/16/95	502710
			+0.1177	+0.0096	06/13/95	503294
			+0.1160	+0.0101	07/11/95	503907
			+0.0852	+0.0086	08/08/95	504444
			+0.1006	+0.0081	09/05/95	504965
			+0.0940	+0.0082	10/03/95	505502
			+0.0975	+0.0088	10/31/95	506134
			+0.0827	+0.0071	11/28/95	506690
			+0.0794	+0.0067	12/26/95	507208
		BI-214	+0.0007	+0.0009	01/24/95	500478
			+0.0012	+0.0009	02/21/95	501025

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3101 LM1 ENV DATA STA	0.5 MILES SSW	GAMMA SCAN (GELI)				
		BI-214	+0.0050	+0.0012	04/18/95	502085
			+0.0035	+0.0009	05/16/95	502710
			+0.0018	+0.0010	07/11/95	503907
			+0.0005	+0.0008	09/05/95	504965
			+0.0099	+0.0020	10/03/95	505502
			+0.0068	+0.0013	10/31/95	506134
			+0.0007	+0.0007	11/28/95	506690
			+0.0006	+0.0008	12/26/95	507208
		PB-212	+0.0004	+0.0005	09/05/95	504965
		PB-214	+0.0012	+0.0007	01/24/95	500478
			+0.0004	+0.0011	02/21/95	501025
			+0.0045	+0.0015	04/18/95	502085
			+0.0036	+0.0008	05/16/95	502710
			+0.0105	+0.0018	10/03/95	505502
			+0.0063	+0.0013	10/31/95	506134
			+0.0012	+0.0008	11/28/95	506690
3102 LM2 N. WBSP GATE	0.5 MILES N	GROSS BETA				
			+0.0262	+0.0028	01/03/95	500087
			+0.0254	+0.0027	01/10/95	500189
			+0.0166	+0.0019	01/17/95	500302
			+0.0176	+0.0020	01/24/95	500433
			+0.0228	+0.0025	01/31/95	500614
			+0.0224	+0.0024	02/07/95	500723
			+0.0232	+0.0025	02/14/95	500847
			+0.0134	+0.0016	02/21/95	500981
			+0.0150	+0.0017	02/28/95	501131
			+0.0145	+0.0017	03/07/95	501233
			+0.0204	+0.0022	03/14/95	501354
			+0.0215	+0.0024	03/21/95	501500
			+0.0166	+0.0019	03/28/95	501675
			+0.0195	+0.0022	04/04/95	501787
			+0.0181	+0.0020	04/11/95	501921
			+0.0158	+0.0018	04/18/95	502040
			+0.0133	+0.0016	04/25/95	502183
			+0.0153	+0.0017	05/02/95	502371
			+0.0171	+0.0019	05/09/95	502531
			+0.0113	+0.0014	05/16/95	502667

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3102 LM2 N. WBSP GATE	0.5 MILES N	GROSS BETA				
			+0.0161	+0.0018	05/23/95	502836
			+0.0179	+0.0020	05/30/95	502978
			+0.0150	+0.0017	06/07/95	503108
			+0.0181	+0.0021	06/13/95	503235
			+0.0186	+0.0021	06/20/95	503445
			+0.0154	+0.0018	06/27/95	503591
			+0.0215	+0.0023	07/05/95	503735
			+0.0188	+0.0022	07/11/95	503864
			+0.0298	+0.0031	07/18/95	504005
			+0.0169	+0.0019	07/25/95	504113
			+0.0147	+0.0017	08/01/95	504232
			+0.0219	+0.0024	11/14/95	506377
			+0.0267	+0.0029	11/20/95	506507
			+0.0276	+0.0029	11/28/95	506647
			+0.0232	+0.0025	12/05/95	506788
			+0.0226	+0.0025	12/12/95	506900
			+0.0235	+0.0026	12/19/95	507017
			+0.0158	+0.0018	12/26/95	507159
		GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		11/28/95	506691
		BE-7	+0.0611	+0.0059	01/24/95	500479
			+0.0910	+0.0075	02/21/95	501026
			+0.1107	+0.0102	03/21/95	501551
			+0.1170	+0.0080	04/18/95	502086
			+0.0857	+0.0082	05/16/95	502711
			+0.1129	+0.0095	06/13/95	503295
			+0.1250	+0.0093	07/11/95	503908
			+0.1007	+0.0092	08/08/95	504445
			+0.0759	+0.0075	12/26/95	507209
		BI-214	+0.0018	+0.0010	04/18/95	502086
			+0.0007	+0.0007	07/11/95	503908
			+0.0033	+0.0009	12/26/95	507209
		PB-212	+0.0004	+0.0005	06/13/95	503295
			+0.0001	+0.0005	12/26/95	507209
		PB-214	+0.0024	+0.0010	04/18/95	502086
			+0.0052	+0.0013	05/16/95	502711
			+0.0003	+0.0009	08/08/95	504445

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3102 LM2 N. WBSP GATE	0.5 MILES N	GAMMA SCAN (GELI)				
		PB-214	+0.0011	+0.0005	12/26/95	507209
		TL-208	+0.0001	+0.0003	06/13/95	503295
3106 PM2 SPRING CITY	7.0 MILES NW	GROSS BETA				
			+0.0291	+0.0032	01/03/95	500091
			+0.0260	+0.0028	01/10/95	500192
			+0.0165	+0.0019	01/17/95	500305
			+0.0186	+0.0021	01/24/95	500436
			+0.0219	+0.0024	01/31/95	500618
			+0.0240	+0.0026	02/07/95	500726
			+0.0228	+0.0025	02/14/95	500850
			+0.0124	+0.0015	02/21/95	500984
			+0.0158	+0.0018	02/28/95	501135
			+0.0146	+0.0017	03/07/95	501236
			+0.0211	+0.0023	03/14/95	501357
			+0.0214	+0.0024	03/21/95	501503
			+0.0153	+0.0017	03/28/95	501679
			+0.0187	+0.0021	04/04/95	501790
			+0.0206	+0.0023	04/11/95	501924
			+0.0148	+0.0017	04/18/95	502043
			+0.0140	+0.0016	04/25/95	502187
			+0.0162	+0.0018	05/02/95	502374
			+0.0161	+0.0018	05/09/95	502534
			+0.0128	+0.0015	05/16/95	502670
			+0.0179	+0.0020	05/23/95	502840
			+0.0193	+0.0021	05/30/95	502981
			+0.0149	+0.0017	06/06/95	503111
			+0.0169	+0.0019	06/13/95	503240
			+0.0201	+0.0022	06/20/95	503449
			+0.0189	+0.0021	06/27/95	503594
			+0.0209	+0.0023	07/05/95	503738
			+0.0217	+0.0024	07/11/95	503867
			+0.0188	+0.0021	07/25/95	504116
			+0.0144	+0.0017	08/01/95	504235
			+0.0094	+0.0012	08/08/95	504404
			+0.0234	+0.0025	08/15/95	504554
			+0.0282	+0.0030	08/22/95	504654
			+0.0193	+0.0021	08/30/95	504795

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3106 PM2 SPRING CITY	7.0 MILES NW	GROSS BETA				
			+0.0302	+0.0032	09/05/95	504919
			+0.0401	+0.0042	09/12/95	505091
			+0.0216	+0.0024	09/19/95	505198
			+0.0205	+0.0023	09/26/95	505328
			+0.0278	+0.0030	10/03/95	505461
			+0.0151	+0.0017	10/10/95	505622
			+0.0275	+0.0030	10/17/95	505757
			+0.0234	+0.0025	10/24/95	505902
			+0.0183	+0.0020	10/31/95	506086
			+0.0196	+0.0022	11/07/95	506279
			+0.0203	+0.0022	11/14/95	506380
			+0.0272	+0.0029	11/21/95	506510
			+0.0269	+0.0029	11/28/95	506650
			+0.0242	+0.0026	12/05/95	506792
			+0.0223	+0.0024	12/12/95	506903
			+0.0238	+0.0026	12/19/95	507020
			+0.0168	+0.0019	12/26/95	507162
		GAMMA SCAN (GELI)				
		AC-228	+0.0024	+0.0018	08/08/95	504446
		BE-7	+0.0523	+0.0046	01/24/95	500480
			+0.0945	+0.0099	02/21/95	501027
			+0.1139	+0.0087	03/21/95	501552
			+0.1298	+0.0116	04/18/95	502087
			+0.0870	+0.0087	05/16/95	502712
			+0.1126	+0.0108	06/13/95	503296
			+0.1189	+0.0092	07/11/95	503909
			+0.0971	+0.0116	08/08/95	504446
			+0.0976	+0.0096	09/05/95	504967
			+0.0974	+0.0073	10/03/95	505504
			+0.0839	+0.0064	10/31/95	506136
			+0.0832	+0.0074	11/28/95	506692
			+0.0852	+0.0084	12/26/95	507210
		BI-214	+0.0023	+0.0008	04/18/95	502087
			+0.0011	+0.0008	05/16/95	502712
			+0.0007	+0.0010	06/13/95	503296
			+0.0001	+0.0009	07/11/95	503909
			+0.0010	+0.0011	08/08/95	504446

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3106 PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)				
		BI-214	+0.0027	+0.0013	09/05/95	504967
			+0.0058	+0.0011	10/03/95	505504
			+0.0060	+0.0015	10/31/95	506136
			+0.0032	+0.0012	11/28/95	506692
			+0.0027	+0.0012	12/26/95	507210
		K-40	+0.0063	+0.0060	10/31/95	506136
			+0.0061	+0.0077	12/26/95	507210
		PB-214	+0.0015	+0.0005	01/24/95	500480
			+0.0023	+0.0006	04/18/95	502087
			+0.0006	+0.0007	07/11/95	503909
			+0.0037	+0.0012	08/08/95	504446
			+0.0035	+0.0011	09/05/95	504967
			+0.0060	+0.0012	10/03/95	505504
			+0.0078	+0.0012	10/31/95	506136
			+0.0037	+0.0012	11/28/95	506692
			+0.0010	+0.0010	12/26/95	507210
3107 PM3 CEDINE BIBLE	CAMP 11.5 M. NNE	GROSS BETA				
			+0.0276	+0.0030	01/03/95	500094
			+0.0281	+0.0030	01/10/95	500194
			+0.0176	+0.0020	01/17/95	500307
			+0.0158	+0.0018	01/24/95	500438
			+0.0220	+0.0024	01/31/95	500621
			+0.0223	+0.0024	02/07/95	500728
			+0.0234	+0.0025	02/14/95	500852
			+0.0113	+0.0014	02/21/95	500986
			+0.0185	+0.0021	02/28/95	501138
			+0.0147	+0.0017	03/07/95	501238
			+0.0236	+0.0026	03/14/95	501359
			+0.0226	+0.0025	03/21/95	501505
			+0.0148	+0.0017	03/28/95	501682
			+0.0197	+0.0022	04/04/95	501792
			+0.0186	+0.0021	04/11/95	501926
			+0.0147	+0.0017	04/18/95	502045
			+0.0149	+0.0017	04/25/95	502190
			+0.0162	+0.0018	05/02/95	502376
			+0.0162	+0.0018	05/10/95	502536
			+0.0139	+0.0016	05/16/95	502672

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3107 PM3 CEDINE BIBLE	CAMP 11.5 M. NNE	GROSS BETA				
			+0.0164	+0.0019	05/23/95	502843
			+0.0188	+0.0021	05/30/95	502983
			+0.0139	+0.0016	06/06/95	503113
			+0.0168	+0.0019	06/13/95	503243
			+0.0191	+0.0021	06/20/95	503452
			+0.0185	+0.0021	06/27/95	503596
			+0.0212	+0.0023	07/05/95	503740
			+0.0248	+0.0027	07/11/95	503869
			+0.0278	+0.0030	07/18/95	504012
			+0.0186	+0.0021	07/25/95	504118
			+0.0159	+0.0018	08/01/95	504237
			+0.0114	+0.0014	08/08/95	504406
			+0.0265	+0.0028	08/15/95	504557
			+0.0298	+0.0032	08/22/95	504656
			+0.0233	+0.0025	08/30/95	504797
			+0.0297	+0.0032	09/05/95	504921
			+0.0383	+0.0040	09/12/95	505094
			+0.0250	+0.0027	09/19/95	505200
			+0.0202	+0.0022	09/26/95	505330
			+0.0313	+0.0033	10/03/95	505463
			+0.0178	+0.0020	10/10/95	505625
			+0.0284	+0.0030	10/17/95	505759
			+0.0240	+0.0026	10/24/95	505904
			+0.0190	+0.0021	10/31/95	506088
			+0.0224	+0.0024	11/07/95	506282
			+0.0221	+0.0024	11/14/95	506382
			+0.0295	+0.0032	11/21/95	506512
			+0.0263	+0.0028	11/28/95	506652
			+0.0235	+0.0026	12/05/95	506795
			+0.0218	+0.0024	12/12/95	506905
			+0.0201	+0.0022	12/19/95	507022
			+0.0162	+0.0018	12/26/95	507164
		GAMMA SCAN (GELI)				
		BE-7	+0.0632	+0.0061	01/24/95	500481
			+0.0885	+0.0088	02/21/95	501028
			+0.1220	+0.0105	03/21/95	501553
			+0.1223	+0.0092	04/18/95	502088

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3107 PM3 CEDINE BIBLE	CAMP 11.5 M. NNE	GAMMA SCAN (GELI)				
		BE-7	+0.0932	+0.0097	05/16/95	502713
			+0.1242	+0.0097	06/13/95	503297
			+0.1417	+0.0099	07/11/95	503910
			+0.0956	+0.0081	08/08/95	504447
			+0.1235	+0.0096	09/05/95	504968
			+0.1112	+0.0086	10/03/95	505505
			+0.0844	+0.0085	10/31/95	506137
			+0.0969	+0.0080	11/28/95	506693
			+0.0728	+0.0057	12/26/95	507211
		BI-214	+0.0018	+0.0008	03/21/95	501553
			+0.0042	+0.0009	04/18/95	502088
			+0.0011	+0.0010	08/08/95	504447
			+0.0025	+0.0008	09/05/95	504968
			+0.0096	+0.0017	10/03/95	505505
			+0.0099	+0.0018	10/31/95	506137
			+0.0038	+0.0011	11/28/95	506693
			+0.0045	+0.0011	12/26/95	507211
		K-40	+0.0043	+0.0076	08/08/95	504447
			+0.0073	+0.0049	12/26/95	507211
		PB-212	+0.0003	+0.0004	04/18/95	502088
		PB-214	+0.0063	+0.0010	04/18/95	502088
			+0.0007	+0.0007	07/11/95	503910
			+0.0022	+0.0008	09/05/95	504968
			+0.0138	+0.0016	10/03/95	505505
			+0.0087	+0.0011	10/31/95	506137
			+0.0040	+0.0008	11/28/95	506693
			+0.0036	+0.0009	12/26/95	507211
3108 PM-4 TEN MILE	7.8 M. NE/ENE	GROSS BETA				
			+0.0326	+0.0035	01/04/95	500097
			+0.0264	+0.0029	01/10/95	500196
			+0.0168	+0.0019	01/18/95	500309
			+0.0174	+0.0020	01/24/95	500440
			+0.0235	+0.0025	02/01/95	500624
			+0.0244	+0.0026	02/08/95	500730
			+0.0238	+0.0026	02/15/95	500854
			+0.0133	+0.0016	02/22/95	500988
			+0.0168	+0.0019	03/01/95	501141

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3108 PM-4 TEN MILE	7.8 M. NE/ENE	GROSS BETA				
			+0.0139	+0.0016	03/08/95	501240
			+0.0274	+0.0029	03/15/95	501361
			+0.0256	+0.0028	03/22/95	501507
			+0.0191	+0.0021	03/29/95	501685
			+0.0199	+0.0022	04/05/95	501794
			+0.0208	+0.0023	04/12/95	501928
			+0.0206	+0.0023	04/19/95	502047
			+0.0128	+0.0015	04/25/95	502193
			+0.0149	+0.0017	05/03/95	502378
			+0.0174	+0.0020	05/09/95	502538
			+0.0136	+0.0016	05/17/95	502674
			+0.0177	+0.0020	05/24/95	502846
			+0.0179	+0.0020	05/31/95	502985
			+0.0154	+0.0017	06/07/95	503115
			+0.0209	+0.0023	06/14/95	503247
			+0.0209	+0.0023	06/21/95	503455
			+0.0185	+0.0021	06/28/95	503598
			+0.0207	+0.0022	07/06/95	503742
			+0.0213	+0.0024	07/12/95	503871
			+0.0310	+0.0033	07/19/95	504015
			+0.0185	+0.0021	07/26/95	504120
			+0.0142	+0.0016	08/02/95	504239
			+0.0116	+0.0014	08/09/95	504408
			+0.0245	+0.0027	08/15/95	504560
			+0.0314	+0.0033	08/23/95	504658
			+0.0243	+0.0026	08/30/95	504799
			+0.0316	+0.0034	09/06/95	504923
			+0.0404	+0.0042	09/12/95	505097
			+0.0216	+0.0024	09/20/95	505202
			+0.0197	+0.0022	09/27/95	505332
			+0.0291	+0.0031	10/03/95	505465
			+0.0194	+0.0021	10/11/95	505628
			+0.0307	+0.0033	10/17/95	505761
			+0.0266	+0.0028	10/25/95	505906
			+0.0199	+0.0022	10/31/95	506090
			+0.0208	+0.0023	11/08/95	506285
			+0.0198	+0.0022	11/15/95	506384
			+0.0298	+0.0032	11/21/95	506514

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3108 PM-4 TEN MILE	7.8 M. NE/ENE	GROSS BETA				
			+0.0268	+0.0029	11/29/95	506654
			+0.0244	+0.0026	12/06/95	506798
			+0.0249	+0.0027	12/13/95	506907
			+0.0215	+0.0024	12/19/95	507024
			+0.0186	+0.0021	12/27/95	507166
		GAMMA SCAN (GELI)				
		BE-7	+0.0576	+0.0057	01/24/95	500482
			+0.0900	+0.0093	02/22/95	501029
			+0.1284	+0.0096	03/22/95	501554
			+0.1299	+0.0098	04/19/95	502089
			+0.0976	+0.0069	05/17/95	502714
			+0.1143	+0.0101	06/14/95	503298
			+0.1345	+0.0087	07/12/95	503911
			+0.0881	+0.0076	08/09/95	504448
			+0.1125	+0.0091	09/06/95	504969
			+0.1070	+0.0084	10/03/95	505506
			+0.0891	+0.0086	10/31/95	506138
			+0.0974	+0.0102	11/29/95	506694
			+0.0753	+0.0108	12/27/95	507212
		BI-214	+0.0026	+0.0008	03/22/95	501554
			+0.0011	+0.0008	04/19/95	502089
			+0.0009	+0.0009	05/17/95	502714
			+0.0048	+0.0013	09/06/95	504969
			+0.0115	+0.0014	10/03/95	505506
			+0.0148	+0.0018	10/31/95	506138
			+0.0021	+0.0011	11/29/95	506694
			+0.0066	+0.0013	12/27/95	507212
		PB-212	+0.0003	+0.0006	05/17/95	502714
		PB-214	+0.0032	+0.0008	03/22/95	501554
			+0.0034	+0.0009	04/19/95	502089
			+0.0001	+0.0005	05/17/95	502714
			+0.0015	+0.0008	07/12/95	503911
			+0.0048	+0.0009	09/06/95	504969
			+0.0113	+0.0014	10/03/95	505506
			+0.0150	+0.0017	10/31/95	506138
			+0.0026	+0.0008	11/29/95	506694
			+0.0072	+0.0015	12/27/95	507212

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3109 PM5 DECATUR	6.25 MILES S	GROSS BETA				
			+0.0296	+0.0032	01/04/95	500100
			+0.0281	+0.0031	01/11/95	500198
			+0.0148	+0.0017	01/18/95	500311
			+0.0185	+0.0021	01/25/95	500442
			+0.0239	+0.0026	02/01/95	500627
			+0.0241	+0.0026	02/08/95	500732
			+0.0253	+0.0028	02/15/95	500856
			+0.0147	+0.0017	02/22/95	500990
			+0.0149	+0.0017	03/01/95	501144
			+0.0126	+0.0015	03/08/95	501242
			+0.0272	+0.0029	03/15/95	501363
			+0.0223	+0.0024	03/22/95	501509
			+0.0185	+0.0021	03/29/95	501688
			+0.0201	+0.0022	04/05/95	501796
			+0.0206	+0.0023	04/12/95	501930
			+0.0187	+0.0021	04/19/95	502049
			+0.0110	+0.0014	04/25/95	502196
			+0.0172	+0.0019	05/03/95	502380
			+0.0189	+0.0021	05/09/95	502540
			+0.0121	+0.0014	05/17/95	502676
			+0.0149	+0.0017	05/24/95	502849
			+0.0195	+0.0021	05/31/95	502987
			+0.0170	+0.0019	06/07/95	503117
			+0.0190	+0.0021	06/14/95	503250
			+0.0221	+0.0024	06/21/95	503458
			+0.0198	+0.0022	06/28/95	503600
			+0.0220	+0.0024	07/06/95	503744
			+0.0213	+0.0024	07/12/95	503873
			+0.0301	+0.0032	07/19/95	504018
			+0.0189	+0.0021	07/26/95	504122
			+0.0150	+0.0017	08/02/95	504241
			+0.0108	+0.0013	08/09/95	504410
			+0.0271	+0.0029	08/15/95	504563
			+0.0274	+0.0029	08/23/95	504660
			+0.0183	+0.0020	08/30/95	504801
			+0.0301	+0.0032	09/06/95	504925
			+0.0400	+0.0042	09/12/95	505100
			+0.0223	+0.0024	09/20/95	505204

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3109 PM5 DECATUR	6.25 MILES S	GROSS BETA				
			+0.0207	+0.0023	09/27/95	505334
			+0.0257	+0.0028	10/04/95	505467
			+0.0187	+0.0021	10/11/95	505631
			+0.0304	+0.0033	10/17/95	505763
			+0.0251	+0.0027	10/25/95	505908
			+0.0206	+0.0023	10/31/95	506092
			+0.0219	+0.0024	11/08/95	506288
			+0.0196	+0.0022	11/15/95	506386
			+0.0315	+0.0034	11/21/95	506516
			+0.0227	+0.0025	11/29/95	506656
			+0.0227	+0.0025	12/06/95	506801
			+0.0225	+0.0025	12/13/95	506909
			+0.0187	+0.0021	12/19/95	507026
			+0.0182	+0.0020	12/26/95	507168
		GAMMA SCAN (GELI)				
		BE-7	+0.0650	+0.0062	01/25/95	500483
			+0.0767	+0.0071	02/22/95	501030
			+0.1264	+0.0093	03/22/95	501555
			+0.1243	+0.0106	04/19/95	502090
			+0.0905	+0.0087	05/17/95	502715
			+0.1183	+0.0090	06/14/95	503299
			+0.1347	+0.0114	07/12/95	503912
			+0.0865	+0.0080	08/09/95	504449
			+0.1076	+0.0087	09/06/95	504970
			+0.0889	+0.0092	10/04/95	505507
			+0.0924	+0.0088	10/31/95	506139
			+0.0895	+0.0085	11/29/95	506695
			+0.0793	+0.0073	12/26/95	507213
		BI-214	+0.0009	+0.0008	01/25/95	500483
			+0.0016	+0.0008	04/19/95	502090
			+0.0045	+0.0014	05/17/95	502715
			+0.0001	+0.0007	07/12/95	503912
			+0.0035	+0.0009	09/06/95	504970
			+0.0104	+0.0013	10/04/95	505507
			+0.0137	+0.0015	10/31/95	506139
			+0.0035	+0.0011	11/29/95	506695
			+0.0110	+0.0015	12/26/95	507213

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3109 PM5 DECATUR	6.25 MILES S	GAMMA SCAN (GELI)				
		K-40	+0.0084	+0.0065	10/04/95	505507
			+0.0072	+0.0058	11/29/95	506695
		PB-212	+0.0007	+0.0005	07/12/95	503912
			+0.0002	+0.0005	08/09/95	504449
		PB-214	+0.0026	+0.0007	02/22/95	501030
			+0.0010	+0.0011	05/17/95	502715
			+0.0043	+0.0008	09/06/95	504970
			+0.0118	+0.0020	10/04/95	505507
			+0.0149	+0.0014	10/31/95	506139
			+0.0043	+0.0011	11/29/95	506695
			+0.0091	+0.0017	12/26/95	507213
3203 LM-3 WB	2.1 MILES NNE	GROSS BETA				
			+0.0307	+0.0033	01/03/95	500103
			+0.0252	+0.0027	01/10/95	500211
			+0.0153	+0.0018	01/17/95	500313
			+0.0159	+0.0018	01/24/95	500447
			+0.0211	+0.0023	01/31/95	500630
			+0.0222	+0.0024	02/07/95	500745
			+0.0216	+0.0024	02/14/95	500858
			+0.0136	+0.0016	02/21/95	500995
			+0.0163	+0.0019	02/28/95	501147
			+0.0146	+0.0017	03/07/95	501256
			+0.0232	+0.0025	03/15/95	501365
			+0.0222	+0.0025	03/21/95	501514
			+0.0148	+0.0017	03/28/95	501691
			+0.0187	+0.0021	04/04/95	501809
			+0.0176	+0.0020	04/11/95	501932
			+0.0168	+0.0019	04/18/95	502055
			+0.0139	+0.0016	04/25/95	502199
			+0.0161	+0.0018	05/02/95	502402
			+0.0171	+0.0019	05/09/95	502542
			+0.0108	+0.0013	05/16/95	502681
			+0.0145	+0.0017	05/23/95	502852
			+0.0172	+0.0019	05/30/95	503001
			+0.0125	+0.0015	06/07/95	503119
			+0.0156	+0.0018	06/13/95	503256
			+0.0183	+0.0020	06/20/95	503461

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3203 LM-3 WB	2.1 MILES NNE	GROSS BETA				
			+0.0178	+0.0020	06/27/95	503613
			+0.0201	+0.0022	07/05/95	503746
			+0.0211	+0.0024	07/11/95	503878
			+0.0251	+0.0027	07/18/95	504021
			+0.0189	+0.0021	07/25/95	504136
			+0.0150	+0.0017	08/01/95	504243
			+0.0090	+0.0012	08/08/95	504415
			+0.0216	+0.0023	08/15/95	504566
			+0.0274	+0.0029	08/22/95	504674
			+0.0184	+0.0020	08/29/95	504803
			+0.0267	+0.0029	09/05/95	504930
			+0.0373	+0.0039	09/12/95	505103
			+0.0197	+0.0022	09/19/95	505218
			+0.0181	+0.0020	09/26/95	505336
			+0.0277	+0.0030	10/03/95	505473
			+0.0148	+0.0017	10/10/95	505634
			+0.0294	+0.0031	10/17/95	505776
			+0.0225	+0.0025	10/24/95	505910
			+0.0198	+0.0022	10/31/95	506105
			+0.0190	+0.0021	11/07/95	506291
			+0.0205	+0.0022	11/14/95	506400
			+0.0263	+0.0029	11/20/95	506518
			+0.0267	+0.0028	11/28/95	506661
			+0.0231	+0.0025	12/05/95	506804
			+0.0221	+0.0024	12/12/95	506924
			+0.0220	+0.0024	12/19/95	507028
			+0.0181	+0.0020	12/26/95	507173
		GAMMA SCAN (GELI)				
		BE-7	+0.0628	+0.0084	01/24/95	500484
			+0.0958	+0.0073	02/21/95	501031
			+0.1193	+0.0097	03/21/95	501556
			+0.1315	+0.0093	04/18/95	502091
			+0.0973	+0.0083	05/16/95	502716
			+0.0957	+0.0084	06/13/95	503300
			+0.1341	+0.0102	07/11/95	503913
			+0.0927	+0.0072	08/08/95	504450
			+0.0793	+0.0079	09/05/95	504971

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3203 LM-3 WB	2.1 MILES NNE	GAMMA SCAN (GELI)				
		BE-7	+0.0790	+0.0080	10/03/95	505508
			+0.0851	+0.0087	10/31/95	506140
			+0.0936	+0.0073	11/28/95	506696
			+0.0832	+0.0082	12/26/95	507214
		BI-214	+0.0054	+0.0010	01/24/95	500484
			+0.0007	+0.0009	05/16/95	502716
			+0.0008	+0.0009	07/11/95	503913
			+0.0003	+0.0010	08/08/95	504450
			+0.0051	+0.0013	09/05/95	504971
			+0.0069	+0.0011	10/03/95	505508
			+0.0081	+0.0016	10/31/95	506140
			+0.0014	+0.0009	11/28/95	506696
			+0.0074	+0.0013	12/26/95	507214
		K-40	+0.0007	+0.0050	05/16/95	502716
		PB-212	+0.0002	+0.0010	07/11/95	503913
			+0.0010	+0.0007	12/26/95	507214
		PB-214	+0.0058	+0.0009	01/24/95	500484
			+0.0005	+0.0007	02/21/95	501031
			+0.0012	+0.0009	07/11/95	503913
			+0.0049	+0.0009	09/05/95	504971
			+0.0062	+0.0012	10/03/95	505508
			+0.0089	+0.0012	10/31/95	506140
			+0.0014	+0.0009	11/28/95	506696
			+0.0085	+0.0013	12/26/95	507214
		TL-208	+0.0000	+0.0003	05/16/95	502716
			+0.0004	+0.0004	10/03/95	505508
3204 LM-4 WB	0.9 MILES SE	GROSS BETA				
			+0.0272	+0.0029	01/03/95	500106
			+0.0242	+0.0026	01/10/95	500213
			+0.0182	+0.0020	01/17/95	500315
			+0.0182	+0.0020	01/24/95	500449
			+0.0237	+0.0026	01/31/95	500633
			+0.0229	+0.0025	02/07/95	500747
			+0.0217	+0.0024	02/14/95	500860
			+0.0147	+0.0017	02/21/95	500997
			+0.0167	+0.0019	02/28/95	501150
			+0.0129	+0.0015	03/07/95	501258

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3204 LM-4 WB	0.9 MILES SE	GROSS BETA				
			+0.0242	+0.0026	03/15/95	501367
			+0.0207	+0.0023	03/21/95	501516
			+0.0164	+0.0018	03/28/95	501694
			+0.0175	+0.0019	04/04/95	501811
			+0.0166	+0.0018	04/12/95	501934
			+0.0183	+0.0021	04/18/95	502057
			+0.0146	+0.0017	04/25/95	502202
			+0.0146	+0.0017	05/02/95	502404
			+0.0155	+0.0018	05/09/95	502544
			+0.0123	+0.0014	05/16/95	502683
			+0.0167	+0.0018	05/24/95	502855
			+0.0170	+0.0019	05/30/95	503003
			+0.0128	+0.0015	06/07/95	503121
			+0.0188	+0.0021	06/13/95	503259
			+0.0209	+0.0023	06/20/95	503464
			+0.0180	+0.0020	06/27/95	503615
			+0.0196	+0.0021	07/05/95	503748
			+0.0200	+0.0022	07/11/95	503880
			+0.0275	+0.0029	07/19/95	504024
			+0.0198	+0.0022	07/25/95	504138
			+0.0143	+0.0016	08/01/95	504245
			+0.0126	+0.0015	08/08/95	504417
			+0.0263	+0.0028	08/15/95	504569
			+0.0289	+0.0031	08/22/95	504676
			+0.0204	+0.0022	08/30/95	504805
			+0.0295	+0.0032	09/05/95	504932
			+0.0380	+0.0040	09/12/95	505106
			+0.0249	+0.0027	09/19/95	505220
			+0.0195	+0.0022	09/26/95	505338
			+0.0286	+0.0030	10/03/95	505475
			+0.0182	+0.0020	10/10/95	505637
			+0.0287	+0.0031	10/17/95	505778
			+0.0208	+0.0023	10/24/95	505912
			+0.0193	+0.0021	10/31/95	506107
			+0.0220	+0.0024	11/07/95	506294
			+0.0206	+0.0023	11/14/95	506402
			+0.0305	+0.0032	11/21/95	506520
			+0.0258	+0.0028	11/28/95	506663

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PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3204 LM-4 WB	0.9 MILES SE	GROSS BETA				
			+0.0220	+0.0024	12/05/95	506807
			+0.0209	+0.0023	12/12/95	506926
			+0.0238	+0.0026	12/19/95	507030
			+0.0166	+0.0019	12/26/95	507175
		GAMMA SCAN (GELI)				
		BE-7	+0.0630	+0.0059	01/24/95	500485
			+0.0813	+0.0073	02/21/95	501032
			+0.1202	+0.0091	03/21/95	501557
			+0.1323	+0.0096	04/18/95	502092
			+0.0845	+0.0088	05/16/95	502717
			+0.1062	+0.0083	06/13/95	503301
			+0.1246	+0.0098	07/11/95	503914
			+0.0957	+0.0089	08/08/95	504451
			+0.0951	+0.0076	09/05/95	504972
			+0.1061	+0.0102	10/03/95	505509
			+0.0989	+0.0083	10/31/95	506141
			+0.0887	+0.0076	11/28/95	506697
			+0.0822	+0.0065	12/26/95	507215
		BI-214	+0.0039	+0.0010	01/24/95	500485
			+0.0021	+0.0012	04/18/95	502092
			+0.0054	+0.0014	05/16/95	502717
			+0.0000	+0.0005	07/11/95	503914
			+0.0063	+0.0014	10/03/95	505509
			+0.0036	+0.0010	10/31/95	506141
			+0.0037	+0.0012	11/28/95	506697
			+0.0055	+0.0010	12/26/95	507215
		K-40	+0.0061	+0.0062	02/21/95	501032
			+0.0157	+0.0086	03/21/95	501557
			+0.0026	+0.0087	10/03/95	505509
		PB-214	+0.0048	+0.0010	01/24/95	500485
			+0.0006	+0.0011	04/18/95	502092
			+0.0049	+0.0012	05/16/95	502717
			+0.0073	+0.0011	10/03/95	505509
			+0.0027	+0.0009	11/28/95	506697
			+0.0057	+0.0010	12/26/95	507215
3205 RM-3 WB	15 MILES NNW	GROSS BETA				
			+0.0259	+0.0028	01/03/95	500109

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PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3205 RM-3 WB	15 MILES NNW	GROSS BETA				
			+0.0222	+0.0024	01/10/95	500215
			+0.0146	+0.0017	01/17/95	500317
			+0.0153	+0.0017	01/24/95	500451
			+0.0187	+0.0021	01/31/95	500636
			+0.0226	+0.0024	02/07/95	500749
			+0.0206	+0.0023	02/14/95	500862
			+0.0121	+0.0014	02/21/95	500999
			+0.0148	+0.0017	02/28/95	501153
			+0.0132	+0.0015	03/07/95	501260
			+0.0219	+0.0024	03/14/95	501369
			+0.0223	+0.0024	03/21/95	501518
			+0.0158	+0.0018	03/28/95	501697
			+0.0196	+0.0022	04/04/95	501813
			+0.0180	+0.0020	04/11/95	501936
			+0.0173	+0.0019	04/18/95	502059
			+0.0120	+0.0014	04/25/95	502205
			+0.0143	+0.0016	05/02/95	502406
			+0.0148	+0.0017	05/10/95	502546
			+0.0140	+0.0016	05/16/95	502685
			+0.0167	+0.0019	05/23/95	502858
			+0.0179	+0.0020	05/30/95	503005
			+0.0143	+0.0016	06/06/95	503123
			+0.0163	+0.0018	06/13/95	503262
			+0.0197	+0.0022	06/20/95	503467
			+0.0192	+0.0021	06/27/95	503617
			+0.0211	+0.0023	07/05/95	503750
			+0.0195	+0.0022	07/11/95	503882
			+0.0305	+0.0032	07/18/95	504027
			+0.0182	+0.0020	07/25/95	504140
			+0.0160	+0.0018	08/01/95	504247
			+0.0118	+0.0014	08/08/95	504419
			+0.0231	+0.0025	08/15/95	504572
			+0.0311	+0.0033	08/22/95	504678
			+0.0207	+0.0023	08/30/95	504807
			+0.0321	+0.0034	09/05/95	504934
			+0.0391	+0.0041	09/12/95	505109
			+0.0229	+0.0025	09/19/95	505222
			+0.0176	+0.0020	09/26/95	505340

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3205 RM-3 WB	15 MILES NNW	GROSS BETA				
			+0.0286	+0.0031	10/03/95	505477
			+0.0145	+0.0017	10/10/95	505640
			+0.0266	+0.0029	10/17/95	505780
			+0.0188	+0.0021	10/24/95	505914
			+0.0186	+0.0021	10/31/95	506109
			+0.0221	+0.0024	11/07/95	506297
			+0.0185	+0.0021	11/14/95	506404
			+0.0310	+0.0033	11/21/95	506522
			+0.0262	+0.0028	11/28/95	506665
			+0.0227	+0.0025	12/05/95	506810
			+0.0210	+0.0023	12/12/95	506928
			+0.0228	+0.0025	12/19/95	507032
			+0.0171	+0.0019	12/26/95	507177
		GAMMA SCAN (GELI)				
		BE-7	+0.0616	+0.0049	01/24/95	500486
			+0.0924	+0.0082	02/21/95	501033
			+0.1155	+0.0086	03/21/95	501558
			+0.1059	+0.0072	04/18/95	502093
			+0.0935	+0.0099	05/16/95	502718
			+0.1096	+0.0087	06/13/95	503302
			+0.1324	+0.0102	07/11/95	503915
			+0.1101	+0.0094	08/08/95	504452
			+0.1167	+0.0087	09/05/95	504973
			+0.0904	+0.0084	10/03/95	505510
			+0.0957	+0.0093	10/31/95	506142
			+0.0812	+0.0059	11/28/95	506698
			+0.0864	+0.0083	12/26/95	507216
		BI-214	+0.0029	+0.0008	01/24/95	500486
			+0.0003	+0.0009	03/21/95	501558
			+0.0005	+0.0007	05/16/95	502718
			+0.0010	+0.0007	09/05/95	504973
			+0.0047	+0.0013	10/03/95	505510
			+0.0026	+0.0009	10/31/95	506142
			+0.0029	+0.0009	11/28/95	506698
			+0.0010	+0.0008	12/26/95	507216
		PB-214	+0.0024	+0.0010	01/24/95	500486
			+0.0000	+0.0008	05/16/95	502718

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PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3205 RM-3 WB	15 MILES NNW	GAMMA SCAN (GELI)				
		PB-214	+0.0049	+0.0008	10/03/95	505510
			+0.0019	+0.0007	10/31/95	506142
			+0.0025	+0.0013	11/28/95	506698
		TL-208	+0.0001	+0.0003	04/18/95	502093

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN AIR FILTER QC-TN
PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GROSS BETA				
			+0.0275	+0.0007	01/03/95	500061
			+0.0238	+0.0006	01/10/95	500161
			+0.0170	+0.0005	01/17/95	500284
			+0.0163	+0.0005	01/24/95	500399
			+0.0213	+0.0006	01/31/95	500588
			+0.0211	+0.0008	02/07/95	500695
			+0.0206	+0.0006	02/14/95	500829
			+0.0133	+0.0005	02/21/95	500946
			+0.0153	+0.0006	02/28/95	501105
			+0.0145	+0.0006	03/07/95	501205
			+0.0214	+0.0008	03/14/95	501336
			+0.0220	+0.0009	03/21/95	501463
			+0.0167	+0.0005	03/28/95	501649
			+0.0183	+0.0010	04/04/95	501759
			+0.0161	+0.0014	04/11/95	501903
			+0.0144	+0.0014	04/18/95	502005
			+0.0123	+0.0009	04/25/95	502157
			+0.0145	+0.0010	05/02/95	502315
			+0.0180	+0.0016	05/09/95	502513
			+0.0117	+0.0013	05/16/95	502621
			+0.0172	+0.0015	05/23/95	502810
			+0.0173	+0.0010	05/30/95	502950
			+0.0147	+0.0010	06/06/95	503090
			+0.0183	+0.0015	06/13/95	503198
			+0.0191	+0.0015	06/20/95	503419
			+0.0180	+0.0015	06/27/95	503563
			+0.0189	+0.0007	07/05/95	503717
			+0.0191	+0.0009	07/11/95	503829
			+0.0272	+0.0009	07/18/95	503979
			+0.0159	+0.0008	07/25/95	504085
			+0.0128	+0.0007	08/01/95	504214
			+0.0101	+0.0007	08/08/95	504367
			+0.0234	+0.0008	08/15/95	504524
			+0.0300	+0.0009	08/22/95	504623
			+0.0202	+0.0008	08/29/95	504774
			+0.0321	+0.0010	09/05/95	504879
			+0.0380	+0.0010	09/12/95	505061
			+0.0219	+0.0009	09/19/95	505167

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PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GROSS BETA				
			+0.0198	+0.0008	09/26/95	505307
			+0.0289	+0.0010	10/03/95	505423
			+0.0157	+0.0008	10/10/95	505592
			+0.0296	+0.0010	10/17/95	505725
			+0.0212	+0.0008	10/24/95	505881
			+0.0188	+0.0009	10/31/95	506026
			+0.0219	+0.0009	11/07/95	506249
			+0.0239	+0.0009	11/14/95	506350
			+0.0314	+0.0011	11/20/95	506489
			+0.0306	+0.0009	11/28/95	506612
			+0.0227	+0.0009	12/05/95	506762
			+0.0215	+0.0009	12/12/95	506872
			+0.0235	+0.0009	12/19/95	506999
			+0.0170	+0.0008	12/26/95	507122
3102 LM2 N. WBSP GATE	0.5 MILES N	GROSS BETA				
			+0.0265	+0.0007	01/03/95	500088
			+0.0245	+0.0009	01/10/95	500190
			+0.0166	+0.0006	01/17/95	500303
			+0.0167	+0.0006	01/24/95	500434
			+0.0229	+0.0007	01/31/95	500615
			+0.0224	+0.0006	02/07/95	500724
			+0.0217	+0.0006	02/14/95	500848
			+0.0140	+0.0005	02/21/95	500982
			+0.0154	+0.0006	02/28/95	501132
			+0.0136	+0.0006	03/07/95	501234
			+0.0232	+0.0009	03/14/95	501355
			+0.0206	+0.0008	03/21/95	501501
			+0.0158	+0.0005	03/28/95	501676
			+0.0169	+0.0011	04/04/95	501788
			+0.0156	+0.0015	04/11/95	501922
			+0.0156	+0.0015	04/18/95	502041
			+0.0120	+0.0010	04/25/95	502184
			+0.0152	+0.0010	05/02/95	502372
			+0.0152	+0.0014	05/09/95	502532
			+0.0099	+0.0012	05/16/95	502668
			+0.0147	+0.0013	05/23/95	502837
			+0.0177	+0.0011	05/30/95	502979

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PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3102 LM2 N. WBSP GATE	0.5 MILES N	GROSS BETA				
			+0.0141	+0.0008	06/07/95	503109
			+0.0161	+0.0017	06/13/95	503236
			+0.0178	+0.0015	06/20/95	503446
			+0.0171	+0.0015	06/27/95	503592
			+0.0183	+0.0070	07/05/95	503736
			+0.0203	+0.0010	07/11/95	503865
			+0.0269	+0.0008	07/18/95	504006
			+0.0163	+0.0008	07/25/95	504114
			+0.0145	+0.0008	08/01/95	504233
			+0.0224	+0.0008	11/14/95	506378
			+0.0303	+0.0010	11/20/95	506508
			+0.0304	+0.0009	11/28/95	506648
			+0.0237	+0.0009	12/05/95	506789
			+0.0207	+0.0009	12/12/95	506901
			+0.0210	+0.0009	12/19/95	507018
			+0.0178	+0.0008	12/26/95	507160

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN APPLES
PCI/KG - 0.037 BQ/KG (WET WT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GAMMA SCAN (GELI)				
		BI-214	+12.6040	+22.8880	06/27/95	502302
		K-40	+772.7200	+90.0270	06/27/95	502302
3209 OWEN HENDERSON FARM	4.8 MILES WSW	GAMMA SCAN (GELI)				
		K-40	+1437.1000	+164.4800	07/05/95	502368

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CABBAGE
PCI/KG - 0.037 BQ/KG (WET WT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GAMMA SCAN (GELI)				
		K-40	+1047.1000	+100.3300	05/30/95	502294
3168 2.0 MILES S		GAMMA SCAN (GELI)				
		K-40	+1960.7000	+205.3900	07/05/95	502362
		PB-212	+5.1531	+3.9993	07/05/95	502362

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CABBAGE QC-TN
PCI/KG - 0.037 BQ/KG (WET WT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3168 2.0 MILES S	GAMMA SCAN (GELI)				
	K-40	+2861.0000	+79.5000	07/05/95	504030

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHANNEL CATFISH FLESH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2160 CHICKAMAUGA RES	TRM 471-530	GAMMA SCAN (GELI)				
		BI-214	+0.0516	+0.0132	10/09/95	506045
		K-40	+14.5220	+0.8033	04/28/95	502323
			+7.8789	+0.4935	10/09/95	506045
		PB-214	+0.0520	+0.0189	10/09/95	506045
2161 WATTS BAR RES	TRM 530-602	GAMMA SCAN (GELI)				
		BI-214	+0.0685	+0.0308	10/18/95	506050
		CS-137	+0.0613	+0.0106	04/28/95	502329
			+0.0504	+0.0059	10/18/95	506050
		K-40	+12.7680	+0.7545	04/28/95	502329
			+9.4703	+0.4882	10/18/95	506050

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/10/95	500162
			NO ACTIVITY DETECTED		01/17/95	500285
			NO ACTIVITY DETECTED		01/24/95	500400
			NO ACTIVITY DETECTED		01/31/95	500589
			NO ACTIVITY DETECTED		02/21/95	500947
			NO ACTIVITY DETECTED		02/28/95	501106
			NO ACTIVITY DETECTED		03/07/95	501206
			NO ACTIVITY DETECTED		03/14/95	501337
			NO ACTIVITY DETECTED		03/21/95	501464
			NO ACTIVITY DETECTED		03/28/95	501650
			NO ACTIVITY DETECTED		04/04/95	501760
			NO ACTIVITY DETECTED		04/18/95	502006
			NO ACTIVITY DETECTED		04/25/95	502158
			NO ACTIVITY DETECTED		05/02/95	502316
			NO ACTIVITY DETECTED		05/09/95	502514
			NO ACTIVITY DETECTED		05/16/95	502622
			NO ACTIVITY DETECTED		05/23/95	502811
			NO ACTIVITY DETECTED		05/30/95	502951
			NO ACTIVITY DETECTED		06/06/95	503091
			NO ACTIVITY DETECTED		06/13/95	503199
			NO ACTIVITY DETECTED		06/20/95	503420
			NO ACTIVITY DETECTED		06/27/95	503564
			NO ACTIVITY DETECTED		07/11/95	503830
			NO ACTIVITY DETECTED		07/18/95	503980
			NO ACTIVITY DETECTED		07/25/95	504086
			NO ACTIVITY DETECTED		08/08/95	504368
			NO ACTIVITY DETECTED		08/29/95	504775
			NO ACTIVITY DETECTED		09/19/95	505168
			NO ACTIVITY DETECTED		10/03/95	505424
			NO ACTIVITY DETECTED		10/31/95	506027
			NO ACTIVITY DETECTED		11/07/95	506250
			NO ACTIVITY DETECTED		11/14/95	506351
			NO ACTIVITY DETECTED		12/05/95	506763
			NO ACTIVITY DETECTED		12/12/95	506873
			NO ACTIVITY DETECTED		12/19/95	507000
			NO ACTIVITY DETECTED		12/26/95	507123
		BI-214	+0.0234	+0.0075	10/10/95	505593
			+0.0451	+0.0108	10/24/95	505882

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GAMMA SCAN (GELI)				
		BI-214	+0.0597	+0.0124	11/20/95	506490
			+0.0222	+0.0080	11/28/95	506613
		K-40	+0.1459	+0.0392	04/11/95	501904
			+0.2408	+0.0449	09/05/95	504880
			+0.2930	+0.0626	11/20/95	506490
			+0.2800	+0.0460	11/28/95	506613
		PB-212	+0.0001	+0.0026	07/05/95	503718
		PB-214	+0.0332	+0.0102	01/03/95	500062
			+0.0322	+0.0148	02/07/95	500696
			+0.0102	+0.0059	02/14/95	500830
			+0.0117	+0.0070	08/01/95	504215
			+0.0162	+0.0054	08/15/95	504525
			+0.0298	+0.0147	08/22/95	504624
			+0.0250	+0.0097	09/12/95	505062
			+0.0230	+0.0101	09/26/95	505308
			+0.0183	+0.0066	10/10/95	505593
			+0.0191	+0.0054	10/17/95	505726
			+0.0493	+0.0093	10/24/95	505882
			+0.0946	+0.0172	11/20/95	506490
			+0.0192	+0.0071	11/28/95	506613
3101 LM1 ENV DATA STA	0.5 MILES SSW	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/10/95	500188
			NO ACTIVITY DETECTED		01/17/95	500301
			NO ACTIVITY DETECTED		01/24/95	500432
			NO ACTIVITY DETECTED		02/14/95	500846
			NO ACTIVITY DETECTED		02/21/95	500980
			NO ACTIVITY DETECTED		02/28/95	501129
			NO ACTIVITY DETECTED		03/07/95	501232
			NO ACTIVITY DETECTED		03/14/95	501353
			NO ACTIVITY DETECTED		03/21/95	501499
			NO ACTIVITY DETECTED		03/28/95	501673
			NO ACTIVITY DETECTED		04/04/95	501786
			NO ACTIVITY DETECTED		04/11/95	501920
			NO ACTIVITY DETECTED		04/18/95	502039
			NO ACTIVITY DETECTED		04/25/95	502181
			NO ACTIVITY DETECTED		05/09/95	502530
			NO ACTIVITY DETECTED		05/16/95	502666

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3101 LM1 ENV DATA STA	0.5 MILES SSW	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		05/23/95	502834
			NO ACTIVITY DETECTED		05/30/95	502977
			NO ACTIVITY DETECTED		06/06/95	503107
			NO ACTIVITY DETECTED		06/13/95	503233
			NO ACTIVITY DETECTED		06/20/95	503443
			NO ACTIVITY DETECTED		06/27/95	503590
			NO ACTIVITY DETECTED		07/11/95	503863
			NO ACTIVITY DETECTED		07/18/95	504003
			NO ACTIVITY DETECTED		07/25/95	504112
			NO ACTIVITY DETECTED		08/01/95	504231
			NO ACTIVITY DETECTED		08/08/95	504400
			NO ACTIVITY DETECTED		08/15/95	504548
			NO ACTIVITY DETECTED		08/22/95	504650
			NO ACTIVITY DETECTED		08/29/95	504791
			NO ACTIVITY DETECTED		09/12/95	505085
			NO ACTIVITY DETECTED		09/19/95	505194
			NO ACTIVITY DETECTED		11/07/95	506273
			NO ACTIVITY DETECTED		11/14/95	506376
		BI-214	+0.0313	+0.0105	01/03/95	500085
			+0.0237	+0.0085	09/26/95	505324
			+0.0227	+0.0092	10/17/95	505753
			+0.0308	+0.0098	10/24/95	505898
			+0.0351	+0.0097	11/20/95	506506
			+0.0037	+0.0053	11/28/95	506646
			+0.0057	+0.0069	12/05/95	506786
			+0.0275	+0.0101	12/26/95	507158
		K-40	+0.2288	+0.0629	07/05/95	503734
			+0.1957	+0.0478	10/03/95	505457
			+0.2677	+0.0699	10/17/95	505753
			+0.2685	+0.0642	12/26/95	507158
		PB-214	+0.0366	+0.0099	01/03/95	500085
			+0.0092	+0.0052	01/31/95	500612
			+0.0193	+0.0101	02/07/95	500722
			+0.0152	+0.0078	05/02/95	502370
			+0.0100	+0.0047	09/05/95	504915
			+0.0063	+0.0093	09/26/95	505324
			+0.0135	+0.0061	10/03/95	505457
			+0.0081	+0.0064	10/10/95	505616

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3101 LM1 ENV DATA STA	0.5 MILES SSW	GAMMA SCAN (GELI)				
		PB-214	+0.0425	+0.0098	10/17/95	505753
			+0.0123	+0.0096	10/24/95	505898
			+0.0119	+0.0042	10/31/95	506082
			+0.0269	+0.0082	11/20/95	506506
			+0.0218	+0.0096	11/28/95	506646
			+0.0360	+0.0101	12/12/95	506899
			+0.0140	+0.0061	12/19/95	507016
			+0.0354	+0.0093	12/26/95	507158
3102 LM2 N. WBSP GATE	0.5 MILES N	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/10/95	500191
			NO ACTIVITY DETECTED		01/17/95	500304
			NO ACTIVITY DETECTED		01/31/95	500616
			NO ACTIVITY DETECTED		02/07/95	500725
			NO ACTIVITY DETECTED		02/14/95	500849
			NO ACTIVITY DETECTED		02/21/95	500983
			NO ACTIVITY DETECTED		02/28/95	501133
			NO ACTIVITY DETECTED		03/07/95	501235
			NO ACTIVITY DETECTED		03/21/95	501502
			NO ACTIVITY DETECTED		03/28/95	501677
			NO ACTIVITY DETECTED		04/04/95	501789
			NO ACTIVITY DETECTED		04/11/95	501923
			NO ACTIVITY DETECTED		04/18/95	502042
			NO ACTIVITY DETECTED		04/25/95	502185
			NO ACTIVITY DETECTED		05/02/95	502373
			NO ACTIVITY DETECTED		05/09/95	502533
			NO ACTIVITY DETECTED		05/16/95	502669
			NO ACTIVITY DETECTED		05/30/95	502980
			NO ACTIVITY DETECTED		06/07/95	503110
			NO ACTIVITY DETECTED		06/27/95	503593
			NO ACTIVITY DETECTED		07/11/95	503866
			NO ACTIVITY DETECTED		07/18/95	504007
			NO ACTIVITY DETECTED		07/25/95	504115
			NO ACTIVITY DETECTED		08/01/95	504234
			NO ACTIVITY DETECTED		11/14/95	506379
			NO ACTIVITY DETECTED		12/19/95	507019
		BI-214	+0.0056	+0.0061	05/23/95	502838
			+0.0822	+0.0133	11/20/95	506509

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3102 LM2 N. WBSP GATE	0.5 MILES N	GAMMA SCAN (GELI)				
		BI-214	+0.0185	+0.0061	11/28/95	506649
		PB-212	+0.0000	+0.0030	06/20/95	503447
		PB-214	+0.0245	+0.0111	01/03/95	500089
			+0.0219	+0.0072	01/24/95	500435
			+0.0018	+0.0040	03/14/95	501356
			+0.0130	+0.0101	06/13/95	503237
			+0.0018	+0.0057	07/05/95	503737
			+0.0794	+0.0134	11/20/95	506509
			+0.0372	+0.0126	11/28/95	506649
			+0.0275	+0.0104	12/05/95	506790
			+0.0357	+0.0109	12/12/95	506902
			+0.0195	+0.0074	12/26/95	507161
3106 PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/17/95	500306
			NO ACTIVITY DETECTED		01/31/95	500619
			NO ACTIVITY DETECTED		02/07/95	500727
			NO ACTIVITY DETECTED		02/21/95	500985
			NO ACTIVITY DETECTED		02/28/95	501136
			NO ACTIVITY DETECTED		03/07/95	501237
			NO ACTIVITY DETECTED		03/14/95	501358
			NO ACTIVITY DETECTED		03/21/95	501504
			NO ACTIVITY DETECTED		03/28/95	501680
			NO ACTIVITY DETECTED		04/04/95	501791
			NO ACTIVITY DETECTED		04/11/95	501925
			NO ACTIVITY DETECTED		04/18/95	502044
			NO ACTIVITY DETECTED		04/25/95	502188
			NO ACTIVITY DETECTED		05/02/95	502375
			NO ACTIVITY DETECTED		05/09/95	502535
			NO ACTIVITY DETECTED		05/16/95	502671
			NO ACTIVITY DETECTED		05/23/95	502841
			NO ACTIVITY DETECTED		06/06/95	503112
			NO ACTIVITY DETECTED		06/13/95	503241
			NO ACTIVITY DETECTED		06/20/95	503450
			NO ACTIVITY DETECTED		06/27/95	503595
			NO ACTIVITY DETECTED		07/05/95	503739
			NO ACTIVITY DETECTED		07/11/95	503868
			NO ACTIVITY DETECTED		07/25/95	504117

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3106 PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		08/01/95	504236
			NO ACTIVITY DETECTED		08/08/95	504405
			NO ACTIVITY DETECTED		08/15/95	504555
			NO ACTIVITY DETECTED		08/22/95	504655
			NO ACTIVITY DETECTED		08/30/95	504796
			NO ACTIVITY DETECTED		09/05/95	504920
			NO ACTIVITY DETECTED		10/03/95	505462
			NO ACTIVITY DETECTED		10/17/95	505758
			NO ACTIVITY DETECTED		10/31/95	506087
			NO ACTIVITY DETECTED		11/07/95	506280
			NO ACTIVITY DETECTED		12/26/95	507163
		BI-214	+0.0310	+0.0097	01/03/95	500092
			+0.0379	+0.0091	01/24/95	500437
			+0.0346	+0.0091	10/24/95	505903
			+0.0319	+0.0096	11/14/95	506381
			+0.0369	+0.0088	11/21/95	506511
			+0.0293	+0.0091	11/28/95	506651
			+0.0260	+0.0086	12/05/95	506793
		K-40	+0.2129	+0.0681	02/14/95	500851
			+0.2428	+0.0709	05/30/95	502982
			+0.2220	+0.0415	10/24/95	505903
			+0.2446	+0.0552	11/14/95	506381
			+0.2515	+0.0630	11/28/95	506651
			+0.1970	+0.0504	12/12/95	506904
		PB-214	+0.0215	+0.0102	01/03/95	500092
			+0.0185	+0.0078	01/10/95	500193
			+0.0387	+0.0095	01/24/95	500437
			+0.0276	+0.0073	02/14/95	500851
			+0.0131	+0.0077	09/12/95	505092
			+0.0487	+0.0116	09/19/95	505199
			+0.0205	+0.0096	09/26/95	505329
			+0.0238	+0.0055	10/10/95	505623
			+0.0422	+0.0087	10/24/95	505903
			+0.0481	+0.0104	11/14/95	506381
			+0.0392	+0.0068	11/21/95	506511
			+0.0238	+0.0081	11/28/95	506651
			+0.0231	+0.0087	12/05/95	506793
			+0.0176	+0.0061	12/12/95	506904

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3106 PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)				
		PB-214	+0.0128	+0.0092	12/19/95	507021
3107 PM3 CEDINE BIBLE	CAMP 11.5 M. NNE	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/03/95	500095
			NO ACTIVITY DETECTED		01/10/95	500195
			NO ACTIVITY DETECTED		01/24/95	500439
			NO ACTIVITY DETECTED		01/31/95	500622
			NO ACTIVITY DETECTED		02/14/95	500853
			NO ACTIVITY DETECTED		02/21/95	500987
			NO ACTIVITY DETECTED		02/28/95	501139
			NO ACTIVITY DETECTED		03/07/95	501239
			NO ACTIVITY DETECTED		03/14/95	501360
			NO ACTIVITY DETECTED		03/21/95	501506
			NO ACTIVITY DETECTED		03/28/95	501683
			NO ACTIVITY DETECTED		04/04/95	501793
			NO ACTIVITY DETECTED		04/11/95	501927
			NO ACTIVITY DETECTED		04/18/95	502046
			NO ACTIVITY DETECTED		04/25/95	502191
			NO ACTIVITY DETECTED		05/10/95	502537
			NO ACTIVITY DETECTED		05/16/95	502673
			NO ACTIVITY DETECTED		05/23/95	502844
			NO ACTIVITY DETECTED		05/30/95	502984
			NO ACTIVITY DETECTED		06/06/95	503114
			NO ACTIVITY DETECTED		06/13/95	503244
			NO ACTIVITY DETECTED		06/20/95	503453
			NO ACTIVITY DETECTED		06/27/95	503597
			NO ACTIVITY DETECTED		07/05/95	503741
			NO ACTIVITY DETECTED		07/25/95	504119
			NO ACTIVITY DETECTED		08/01/95	504238
			NO ACTIVITY DETECTED		08/22/95	504657
			NO ACTIVITY DETECTED		08/30/95	504798
			NO ACTIVITY DETECTED		09/19/95	505201
			NO ACTIVITY DETECTED		11/28/95	506653
			NO ACTIVITY DETECTED		12/05/95	506796
		BI-214	+0.0167	+0.0069	02/07/95	500729
			+0.0158	+0.0076	07/18/95	504013
			+0.0063	+0.0078	09/12/95	505095
			+0.0133	+0.0070	10/10/95	505626

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3107 PM3 CEDINE BIBLE	CAMP 11.5 M. NNE	GAMMA SCAN (GELI)				
		BI-214	+0.0280	+0.0073	10/24/95	505905
			+0.0331	+0.0092	11/21/95	506513
			+0.0529	+0.0110	12/26/95	507165
		K-40	+0.3809	+0.0714	07/11/95	503870
			+0.2241	+0.0394	08/15/95	504558
			+0.2985	+0.0550	09/26/95	505331
			+0.2419	+0.0535	10/10/95	505626
			+0.2394	+0.0467	10/24/95	505905
		PB-214	+0.0205	+0.0095	01/17/95	500308
			+0.0282	+0.0093	02/07/95	500729
			+0.0122	+0.0063	05/02/95	502377
			+0.0100	+0.0046	08/08/95	504407
			+0.0096	+0.0061	08/15/95	504558
			+0.0037	+0.0081	09/05/95	504922
			+0.0110	+0.0084	09/12/95	505095
			+0.0003	+0.0065	10/03/95	505464
			+0.0221	+0.0052	10/10/95	505626
			+0.0300	+0.0115	10/17/95	505760
			+0.0274	+0.0072	10/24/95	505905
			+0.0177	+0.0043	10/31/95	506089
			+0.0083	+0.0082	11/07/95	506283
			+0.0355	+0.0102	11/14/95	506383
			+0.0320	+0.0173	11/21/95	506513
			+0.0193	+0.0078	12/12/95	506906
			+0.0077	+0.0067	12/19/95	507023
			+0.0524	+0.0128	12/26/95	507165
3108 PM-4 TEN MILE	7.8 M. NE/ENE	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/10/95	500197
			NO ACTIVITY DETECTED		01/18/95	500310
			NO ACTIVITY DETECTED		01/24/95	500441
			NO ACTIVITY DETECTED		02/15/95	500855
			NO ACTIVITY DETECTED		02/22/95	500989
			NO ACTIVITY DETECTED		03/01/95	501142
			NO ACTIVITY DETECTED		03/08/95	501241
			NO ACTIVITY DETECTED		03/22/95	501508
			NO ACTIVITY DETECTED		03/29/95	501686
			NO ACTIVITY DETECTED		04/05/95	501795

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PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3108 PM-4 TEN MILE	7.8 M. NE/ENE	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		04/12/95	501929
			NO ACTIVITY DETECTED		04/19/95	502048
			NO ACTIVITY DETECTED		04/25/95	502194
			NO ACTIVITY DETECTED		05/09/95	502539
			NO ACTIVITY DETECTED		05/17/95	502675
			NO ACTIVITY DETECTED		05/24/95	502847
			NO ACTIVITY DETECTED		05/31/95	502986
			NO ACTIVITY DETECTED		06/07/95	503116
			NO ACTIVITY DETECTED		06/14/95	503248
			NO ACTIVITY DETECTED		06/21/95	503456
			NO ACTIVITY DETECTED		06/28/95	503599
			NO ACTIVITY DETECTED		07/06/95	503743
			NO ACTIVITY DETECTED		07/12/95	503872
			NO ACTIVITY DETECTED		07/19/95	504016
			NO ACTIVITY DETECTED		08/02/95	504240
			NO ACTIVITY DETECTED		08/09/95	504409
			NO ACTIVITY DETECTED		08/15/95	504561
			NO ACTIVITY DETECTED		08/23/95	504659
			NO ACTIVITY DETECTED		08/30/95	504800
			NO ACTIVITY DETECTED		09/12/95	505098
			NO ACTIVITY DETECTED		09/27/95	505333
			NO ACTIVITY DETECTED		10/03/95	505466
			NO ACTIVITY DETECTED		10/31/95	506091
			NO ACTIVITY DETECTED		11/08/95	506286
			NO ACTIVITY DETECTED		12/06/95	506799
			NO ACTIVITY DETECTED		12/19/95	507025
		BI-214	+0.0134	+0.0076	02/01/95	500625
			+0.0244	+0.0066	10/11/95	505629
			+0.0205	+0.0071	10/25/95	505907
			+0.0189	+0.0060	11/15/95	506385
			+0.0211	+0.0079	11/21/95	506515
			+0.0177	+0.0093	12/13/95	506908
			+0.0226	+0.0091	12/27/95	507167
		K-40	+0.2305	+0.0580	10/11/95	505629
			+0.1873	+0.0494	11/15/95	506385
			+0.1879	+0.0465	11/21/95	506515
			+0.2016	+0.0466	12/27/95	507167
		PB-212	+0.0028	+0.0039	11/29/95	506655

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3108 PM-4 TEN MILE	7.8 M. NE/ENE	GAMMA SCAN (GELI) PB-214	+0.0183	+0.0108	01/04/95	500098
			+0.0053	+0.0074	02/01/95	500625
			+0.0178	+0.0074	02/08/95	500731
			+0.0107	+0.0064	03/15/95	501362
			+0.0098	+0.0047	05/03/95	502379
			+0.0071	+0.0060	07/26/95	504121
			+0.0214	+0.0074	09/06/95	504924
			+0.0069	+0.0051	09/20/95	505203
			+0.0196	+0.0055	10/11/95	505629
			+0.0501	+0.0133	10/17/95	505762
			+0.0265	+0.0074	10/25/95	505907
			+0.0373	+0.0094	11/21/95	506515
			+0.0049	+0.0086	12/13/95	506908
			+0.0283	+0.0122	12/27/95	507167
3109 PM5 DECATUR	6.25 MILES S	GAMMA SCAN (GELI)	NO ACTIVITY DETECTED		01/04/95	500101
			NO ACTIVITY DETECTED		01/11/95	500199
			NO ACTIVITY DETECTED		01/18/95	500312
			NO ACTIVITY DETECTED		01/25/95	500443
			NO ACTIVITY DETECTED		02/01/95	500628
			NO ACTIVITY DETECTED		02/08/95	500733
			NO ACTIVITY DETECTED		02/15/95	500857
			NO ACTIVITY DETECTED		02/22/95	500991
			NO ACTIVITY DETECTED		03/01/95	501145
			NO ACTIVITY DETECTED		03/08/95	501243
			NO ACTIVITY DETECTED		03/15/95	501364
			NO ACTIVITY DETECTED		03/22/95	501510
			NO ACTIVITY DETECTED		03/29/95	501689
			NO ACTIVITY DETECTED		04/05/95	501797
			NO ACTIVITY DETECTED		04/12/95	501931
			NO ACTIVITY DETECTED		04/19/95	502050
			NO ACTIVITY DETECTED		04/25/95	502197
			NO ACTIVITY DETECTED		05/03/95	502381
			NO ACTIVITY DETECTED		05/09/95	502541
			NO ACTIVITY DETECTED		05/17/95	502677
			NO ACTIVITY DETECTED		05/24/95	502850
			NO ACTIVITY DETECTED		05/31/95	502988

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3109 PM5 DECATUR	6.25 MILES S	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		06/07/95	503118
			NO ACTIVITY DETECTED		06/14/95	503251
			NO ACTIVITY DETECTED		06/21/95	503459
			NO ACTIVITY DETECTED		06/28/95	503601
			NO ACTIVITY DETECTED		07/06/95	503745
			NO ACTIVITY DETECTED		07/12/95	503874
			NO ACTIVITY DETECTED		07/19/95	504019
			NO ACTIVITY DETECTED		08/02/95	504242
			NO ACTIVITY DETECTED		08/15/95	504564
			NO ACTIVITY DETECTED		08/23/95	504661
			NO ACTIVITY DETECTED		08/30/95	504802
			NO ACTIVITY DETECTED		10/04/95	505468
			NO ACTIVITY DETECTED		11/08/95	506289
			NO ACTIVITY DETECTED		11/21/95	506517
		BI-214	+0.0103	+0.0083	09/06/95	504926
			+0.0310	+0.0077	10/17/95	505764
			+0.0388	+0.0096	12/19/95	507027
			+0.0116	+0.0053	12/26/95	507169
		K-40	+0.3277	+0.0616	07/26/95	504123
			+0.1823	+0.0638	08/09/95	504411
			+0.1331	+0.0413	09/06/95	504926
			+0.3591	+0.0806	09/12/95	505101
			+0.2168	+0.0481	09/20/95	505205
			+0.2920	+0.0731	12/19/95	507027
		PB-214	+0.0297	+0.0111	09/06/95	504926
			+0.0074	+0.0032	09/12/95	505101
			+0.0215	+0.0082	09/27/95	505335
			+0.0263	+0.0082	10/11/95	505632
			+0.0423	+0.0098	10/17/95	505764
			+0.0449	+0.0083	10/25/95	505909
			+0.0174	+0.0088	10/31/95	506093
			+0.0267	+0.0079	11/15/95	506387
			+0.0393	+0.0120	11/29/95	506657
			+0.0167	+0.0092	12/06/95	506802
			+0.0331	+0.0093	12/13/95	506910
			+0.0497	+0.0121	12/19/95	507027
			+0.0142	+0.0059	12/26/95	507169
3203 LM-3 WB	2.1 MILES NNE	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/03/95	500104

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3203 LM-3 WB	2.1 MILES NNE	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/10/95	500212
			NO ACTIVITY DETECTED		01/31/95	500631
			NO ACTIVITY DETECTED		02/28/95	501148
			NO ACTIVITY DETECTED		03/07/95	501257
			NO ACTIVITY DETECTED		03/21/95	501515
			NO ACTIVITY DETECTED		04/04/95	501810
			NO ACTIVITY DETECTED		04/18/95	502056
			NO ACTIVITY DETECTED		05/02/95	502403
			NO ACTIVITY DETECTED		05/09/95	502543
			NO ACTIVITY DETECTED		05/16/95	502682
			NO ACTIVITY DETECTED		05/23/95	502853
			NO ACTIVITY DETECTED		06/07/95	503120
			NO ACTIVITY DETECTED		06/13/95	503257
			NO ACTIVITY DETECTED		06/20/95	503462
			NO ACTIVITY DETECTED		06/27/95	503614
			NO ACTIVITY DETECTED		07/05/95	503747
			NO ACTIVITY DETECTED		07/11/95	503879
			NO ACTIVITY DETECTED		07/18/95	504022
			NO ACTIVITY DETECTED		07/25/95	504137
			NO ACTIVITY DETECTED		08/01/95	504244
			NO ACTIVITY DETECTED		08/08/95	504416
			NO ACTIVITY DETECTED		08/29/95	504804
			NO ACTIVITY DETECTED		09/05/95	504931
			NO ACTIVITY DETECTED		09/12/95	505104
			NO ACTIVITY DETECTED		09/19/95	505219
			NO ACTIVITY DETECTED		10/03/95	505474
			NO ACTIVITY DETECTED		10/10/95	505635
			NO ACTIVITY DETECTED		10/31/95	506106
			NO ACTIVITY DETECTED		11/28/95	506662
		BI-214	+0.0255	+0.0098	01/24/95	500448
			+0.0228	+0.0076	02/07/95	500746
			+0.0099	+0.0055	05/30/95	503002
			+0.0249	+0.0076	10/17/95	505777
			+0.0139	+0.0062	11/14/95	506401
			+0.0314	+0.0098	11/20/95	506519
			+0.0340	+0.0079	12/12/95	506925
			+0.0235	+0.0092	12/26/95	507174
		K-40	+0.1861	+0.0696	03/28/95	501692

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3203 LM-3 WB	2.1 MILES NNE	GAMMA SCAN (GELI)				
		K-40	+0.2234	+0.0535	11/14/95	506401
			+0.1574	+0.0394	12/12/95	506925
		PB-212	+0.0039	+0.0040	02/21/95	500996
			+0.0018	+0.0029	04/11/95	501933
			+0.0029	+0.0032	04/25/95	502200
		PB-214	+0.0291	+0.0088	01/17/95	500314
			+0.0353	+0.0098	01/24/95	500448
			+0.0131	+0.0066	02/07/95	500746
			+0.0039	+0.0066	02/14/95	500859
			+0.0096	+0.0049	03/15/95	501366
			+0.0049	+0.0079	08/15/95	504567
			+0.0138	+0.0068	08/22/95	504675
			+0.0101	+0.0075	09/26/95	505337
			+0.0281	+0.0083	10/17/95	505777
			+0.0116	+0.0081	10/24/95	505911
			+0.0068	+0.0059	11/07/95	506292
			+0.0341	+0.0096	11/20/95	506519
			+0.0211	+0.0061	12/05/95	506805
			+0.0341	+0.0106	12/12/95	506925
			+0.0233	+0.0087	12/19/95	507029
			+0.0313	+0.0107	12/26/95	507174
3204 LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/10/95	500214
			NO ACTIVITY DETECTED		01/24/95	500450
			NO ACTIVITY DETECTED		02/07/95	500748
			NO ACTIVITY DETECTED		02/21/95	500998
			NO ACTIVITY DETECTED		02/28/95	501151
			NO ACTIVITY DETECTED		03/07/95	501259
			NO ACTIVITY DETECTED		03/15/95	501368
			NO ACTIVITY DETECTED		03/21/95	501517
			NO ACTIVITY DETECTED		03/28/95	501695
			NO ACTIVITY DETECTED		04/04/95	501812
			NO ACTIVITY DETECTED		04/18/95	502058
			NO ACTIVITY DETECTED		05/02/95	502405
			NO ACTIVITY DETECTED		05/09/95	502545
			NO ACTIVITY DETECTED		05/16/95	502684
			NO ACTIVITY DETECTED		05/24/95	502856

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3204 LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		05/30/95	503004
			NO ACTIVITY DETECTED		06/07/95	503122
			NO ACTIVITY DETECTED		06/13/95	503260
			NO ACTIVITY DETECTED		06/27/95	503616
			NO ACTIVITY DETECTED		07/11/95	503881
			NO ACTIVITY DETECTED		07/19/95	504025
			NO ACTIVITY DETECTED		07/25/95	504139
			NO ACTIVITY DETECTED		08/01/95	504246
			NO ACTIVITY DETECTED		08/08/95	504418
			NO ACTIVITY DETECTED		08/15/95	504570
			NO ACTIVITY DETECTED		08/22/95	504677
			NO ACTIVITY DETECTED		08/30/95	504806
			NO ACTIVITY DETECTED		09/05/95	504933
			NO ACTIVITY DETECTED		09/19/95	505221
			NO ACTIVITY DETECTED		09/26/95	505339
			NO ACTIVITY DETECTED		10/03/95	505476
			NO ACTIVITY DETECTED		10/10/95	505638
			NO ACTIVITY DETECTED		10/31/95	506108
			NO ACTIVITY DETECTED		11/28/95	506664
			NO ACTIVITY DETECTED		12/19/95	507031
		BI-214	+0.0014	+0.0049	04/12/95	501935
			+0.0140	+0.0062	10/24/95	505913
			+0.0114	+0.0059	12/12/95	506927
		K-40	+0.1703	+0.0388	04/25/95	502203
			+0.2114	+0.0646	06/20/95	503465
			+0.2986	+0.0531	07/05/95	503749
			+0.1730	+0.0433	09/12/95	505107
			+0.2005	+0.0427	10/24/95	505913
			+0.3393	+0.0682	12/12/95	506927
		PB-212	+0.0024	+0.0026	01/31/95	500634
			+0.0016	+0.0040	06/20/95	503465
		PB-214	+0.0118	+0.0072	01/03/95	500107
			+0.0063	+0.0061	01/17/95	500316
			+0.0131	+0.0060	02/14/95	500861
			+0.0262	+0.0060	10/17/95	505779
			+0.0146	+0.0054	10/24/95	505913
			+0.0176	+0.0059	11/07/95	506295
			+0.0116	+0.0051	11/14/95	506403

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PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3204 LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)				
		PB-214	+0.0490	+0.0115	11/21/95	506521
			+0.0124	+0.0092	12/05/95	506808
			+0.0186	+0.0065	12/26/95	507176
3205 RM-3 WB	15 MILES NNW	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/10/95	500216
			NO ACTIVITY DETECTED		01/17/95	500318
			NO ACTIVITY DETECTED		01/24/95	500452
			NO ACTIVITY DETECTED		01/31/95	500637
			NO ACTIVITY DETECTED		02/07/95	500750
			NO ACTIVITY DETECTED		02/14/95	500863
			NO ACTIVITY DETECTED		02/21/95	501000
			NO ACTIVITY DETECTED		02/28/95	501154
			NO ACTIVITY DETECTED		03/07/95	501261
			NO ACTIVITY DETECTED		03/14/95	501370
			NO ACTIVITY DETECTED		03/21/95	501519
			NO ACTIVITY DETECTED		03/28/95	501698
			NO ACTIVITY DETECTED		04/04/95	501814
			NO ACTIVITY DETECTED		04/11/95	501937
			NO ACTIVITY DETECTED		04/18/95	502060
			NO ACTIVITY DETECTED		04/25/95	502206
			NO ACTIVITY DETECTED		05/02/95	502407
			NO ACTIVITY DETECTED		05/10/95	502547
			NO ACTIVITY DETECTED		05/16/95	502686
			NO ACTIVITY DETECTED		05/23/95	502859
			NO ACTIVITY DETECTED		05/30/95	503006
			NO ACTIVITY DETECTED		06/06/95	503124
			NO ACTIVITY DETECTED		06/13/95	503263
			NO ACTIVITY DETECTED		06/20/95	503468
			NO ACTIVITY DETECTED		06/27/95	503618
			NO ACTIVITY DETECTED		07/05/95	503751
			NO ACTIVITY DETECTED		07/11/95	503883
			NO ACTIVITY DETECTED		07/18/95	504028
			NO ACTIVITY DETECTED		07/25/95	504141
			NO ACTIVITY DETECTED		08/01/95	504248
			NO ACTIVITY DETECTED		08/08/95	504420
			NO ACTIVITY DETECTED		08/15/95	504573
			NO ACTIVITY DETECTED		08/22/95	504679

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WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3205 RM-3 WB	15 MILES NNW	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		08/30/95	504808
			NO ACTIVITY DETECTED		09/05/95	504935
			NO ACTIVITY DETECTED		09/19/95	505223
			NO ACTIVITY DETECTED		09/26/95	505341
			NO ACTIVITY DETECTED		10/03/95	505478
			NO ACTIVITY DETECTED		10/10/95	505641
			NO ACTIVITY DETECTED		10/31/95	506110
			NO ACTIVITY DETECTED		11/14/95	506405
			NO ACTIVITY DETECTED		12/05/95	506811
			NO ACTIVITY DETECTED		12/19/95	507033
			NO ACTIVITY DETECTED		12/26/95	507178
		BI-214	+0.0152	+0.0080	01/03/95	500110
			+0.0160	+0.0090	10/17/95	505781
			+0.0299	+0.0115	10/24/95	505915
			+0.0545	+0.0121	11/21/95	506523
			+0.0083	+0.0091	11/28/95	506666
			+0.0178	+0.0082	12/12/95	506929
		K-40	+0.1757	+0.0398	01/03/95	500110
			+0.4046	+0.0711	11/21/95	506523
		PB-214	+0.0387	+0.0231	09/12/95	505110
			+0.0208	+0.0074	10/24/95	505915
			+0.0114	+0.0070	11/07/95	506298
			+0.0492	+0.0143	11/21/95	506523
			+0.0400	+0.0099	11/28/95	506666
			+0.0287	+0.0076	12/12/95	506929

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CLAM FLESH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3143 DOWNSTREAM	GAMMA SCAN (GELI)				
	AC-228	+0.1434	+0.1261	04/24/95	502396
	BI-214	+0.6718	+0.1268	10/26/95	506100
	K-40	+1.3511	+0.4928	04/24/95	502396
		+1.2344	+0.9427	10/26/95	506100
	PB-214	+0.7805	+0.1276	10/26/95	506100
3144 UPSTREAM	GAMMA SCAN (GELI)				
	AC-228	+0.1528	+0.1075	10/26/95	506101
	BI-214	+0.8960	+0.1303	10/26/95	506101
	K-40	+1.6929	+0.5327	04/20/95	502397
		+1.6711	+0.6816	10/26/95	506101
	PB-214	+0.8091	+0.1266	10/26/95	506101

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER QC-TN
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3133 TRM 529.3	1.5 MILES UPSTREAM	GROSS ALPHA				
			+0.8000	+0.7000	01/10/95	500207
			+0.8000	+0.6500	02/07/95	500741
			+0.5000	+0.6500	03/07/95	501252
		GROSS BETA				
			+1.8000	+1.1000	01/10/95	500207
			+2.8000	+1.0500	02/07/95	500741
			+2.5000	+1.1500	03/07/95	501252
			+1.0000	+1.1000	04/04/95	501805
			+7.1000	+1.3000	05/02/95	502389
			+2.9000	+1.1500	05/30/95	502997
			+1.6000	+1.1000	06/27/95	503609
			+1.3000	+1.1000	07/25/95	504132
			+2.4000	+1.1500	08/22/95	504670
			+2.0000	+1.1000	09/19/95	505214
			+2.8000	+1.0500	10/17/95	505772
			+1.4000	+1.1000	11/14/95	506396
			-0.4999	+1.2000	12/12/95	506920
		GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		03/07/95	501252
			NO ACTIVITY DETECTED		05/02/95	502389
			NO ACTIVITY DETECTED		07/25/95	504132
		BI-214	+11.0000	+1.9500	01/10/95	500207
			+28.9000	+2.4000	02/07/95	500741
			+84.8000	+3.7500	04/04/95	501805
			+35.5000	+2.8000	05/30/95	502997
			+18.1000	+1.9500	06/27/95	503609
			+20.9000	+2.4000	08/22/95	504670
			+34.8000	+2.4500	09/19/95	505214
			+13.8000	+2.1000	10/17/95	505772
			+30.7000	+2.3000	11/14/95	506396
			+18.5000	+1.9500	12/12/95	506920
		PB-214	+16.6000	+2.4500	01/10/95	500207
			+64.8000	+3.4500	04/04/95	501805
			+23.2000	+2.4500	05/30/95	502997
			+21.1000	+1.9000	06/27/95	503609
			+23.9000	+2.4000	09/19/95	505214

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER QC-TN
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3133 TRM 529.3	1.5 MILES UPSTREAM	GAMMA SCAN (GELI)				
		PB-214	+15.3000	+1.8500	10/17/95	505772
			+25.5000	+2.7500	11/14/95	506396
		SR 89				
			+0.2100	+0.4800	03/07/95	501252
		SR 90				
			+0.1560	+0.0375	03/07/95	501252
		TRITIUM				
			-36.9999	+54.5000	01/10/95	500207
			-2.9999	+53.0000	02/07/95	500741
			+5.0000	+54.5000	03/07/95	501252
3135 TRM 523.1	4.7 MILES DOWNSTREA	GROSS ALPHA				
			+0.8000	+0.7000	01/10/95	500210
			+1.1000	+0.7000	02/07/95	500744
			+0.0000	+0.6000	03/07/95	501255
		GROSS BETA				
			+3.3000	+1.6500	01/10/95	500210
			+3.7000	+1.1000	02/07/95	500744
			+2.1000	+1.1500	03/07/95	501255
			+0.9000	+1.1000	04/04/95	501808
			+3.8000	+1.2000	05/02/95	502392
			+1.8000	+1.1000	05/30/95	503000
			+2.0000	+1.1000	07/25/95	504135
			+3.1000	+1.1500	08/22/95	504673
			+4.8000	+1.2000	09/19/95	505217
			+4.0000	+1.2000	11/14/95	506399
			-0.4999	+1.2000	12/12/95	506923
		GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		02/07/95	500744
			NO ACTIVITY DETECTED		03/07/95	501255
			NO ACTIVITY DETECTED		04/04/95	501808
			NO ACTIVITY DETECTED		05/02/95	502392
			NO ACTIVITY DETECTED		07/25/95	504135

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER QC-TN
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3135 TRM 523.1	4.7 MILES DOWNSTREA	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		12/12/95	506923
		BI-214	+16.5000	+1.7500	01/10/95	500210
			+31.6000	+2.7500	05/30/95	503000
			+20.2000	+2.0500	08/22/95	504673
			+24.3000	+2.1000	09/19/95	505217
			+25.4000	+3.1500	11/14/95	506399
		PB-214	+19.2000	+1.9000	05/30/95	503000
			+24.7000	+2.3000	09/19/95	505217
			+19.6000	+2.7500	11/14/95	506399
		SR 89				
			+0.1000	+0.4950	03/07/95	501255
		SR 90				
			+0.4600	+0.0500	03/07/95	501255
		TRITIUM				
			+92.0000	+55.5000	01/10/95	500210
			+11.0000	+53.0000	02/07/95	500744
			+73.0000	+55.0000	03/07/95	501255

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3133 TRM 529.3	1.5 MILES UPSTREAM	GROSS BETA				
			+2.0738	+0.5771	01/10/95	500206
			+3.0886	+0.6308	02/07/95	500740
			+2.7814	+0.6166	03/07/95	501251
			+2.0703	+0.5763	04/04/95	501804
			+3.0159	+0.6237	05/02/95	502388
			+2.4895	+0.5968	05/30/95	502996
			+2.8714	+0.6361	06/27/95	503608
			+2.7693	+0.6228	07/25/95	504131
			+2.9305	+0.6566	08/22/95	504669
			+2.3276	+0.6111	09/19/95	505213
			+2.3752	+0.5900	10/17/95	505771
			+3.1724	+0.6319	11/14/95	506395
			+2.5058	+0.5907	12/12/95	506919
		GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/10/95	500206
			NO ACTIVITY DETECTED		05/02/95	502388
			NO ACTIVITY DETECTED		08/22/95	504669
		AC-228	+0.4029	+3.4566	02/07/95	500740
			+3.5871	+4.2050	04/04/95	501804
			+9.8619	+5.0281	10/17/95	505771
		BI-214	+2.8875	+2.5369	02/07/95	500740
			+1.1381	+6.8148	04/04/95	501804
			+4.0105	+10.5690	05/30/95	502996
			+11.1430	+3.3962	09/19/95	505213
			+6.4708	+2.8985	10/17/95	505771
			+4.7525	+3.0320	11/14/95	506395
			+6.2693	+2.8414	12/12/95	506919
		K-40	+35.7080	+20.3020	03/07/95	501251
			+8.5426	+14.4670	05/30/95	502996
			+1.7287	+16.4700	06/27/95	503608
			+8.7631	+13.2790	09/19/95	505213
			+17.5260	+21.2280	10/17/95	505771
		PB-212	+2.9206	+1.8199	03/07/95	501251
			+0.6682	+1.5400	04/04/95	501804
			+3.7533	+2.1911	07/25/95	504131
			+1.8034	+1.9393	10/17/95	505771
		PB-214	+3.7111	+2.5891	02/07/95	500740

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3133 TRM 529.3	1.5 MILES UPSTREAM	GAMMA SCAN (GELI)				
		PB-214	+0.1608	+3.0884	07/25/95	504131
			+8.7539	+2.7504	09/19/95	505213
			+5.9050	+3.1219	10/17/95	505771
			+0.9446	+2.5497	11/14/95	506395
			+1.3608	+2.3186	12/12/95	506919
		TL-208	+0.7325	+0.9624	09/19/95	505213
			+0.8616	+1.3489	10/17/95	505771
		SR 89				
			+1.3200	+1.2000	03/07/95	501264
			-0.3269	+1.0200	05/30/95	503008
			+0.7500	+1.1200	08/22/95	504681
			+2.8300	+1.5700	12/12/95	506931
		SR 90				
			+0.1070	+0.6240	03/07/95	501264
			+0.6320	+0.5360	05/30/95	503008
			+0.0644	+0.6420	08/22/95	504681
			-0.6379	+0.6020	12/12/95	506931
		TRITIUM				
			+135.0500	+79.2000	03/07/95	501264
			+214.1300	+82.7400	05/30/95	503008
			+163.1500	+74.6300	08/22/95	504681
			-19.1099	+71.2900	12/12/95	506931
3134 TRM 517.9	9.9 MILES DOWNSTREA	GROSS BETA				
			+2.9107	+0.6180	01/10/95	500208
			+3.1247	+0.6300	02/07/95	500742
			+2.5733	+0.6071	03/07/95	501253
			+2.4187	+0.5999	04/04/95	501806
			+2.7488	+0.6091	05/02/95	502390
			+6.5974	+0.8391	05/30/95	502998
			+3.5584	+0.7264	06/27/95	503610
			+3.2584	+0.6488	07/25/95	504133
			+3.3593	+0.6807	08/22/95	504671
			+2.7463	+0.8492	09/19/95	505215
			+3.1378	+0.6328	10/17/95	505773

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3134 TRM 517.9	9.9 MILES DOWNSTREA	GROSS BETA				
			+4.2469	+0.7103	12/19/95	506921
		GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		04/04/95	501806
			NO ACTIVITY DETECTED		06/27/95	503610
			NO ACTIVITY DETECTED		08/22/95	504671
		AC-228	+0.7028	+5.3873	03/07/95	501253
			+2.4542	+3.2738	12/19/95	506921
		BI-214	+0.0650	+5.0347	02/07/95	500742
			+1.7293	+3.3802	03/07/95	501253
			+1.0919	+2.6868	07/25/95	504133
			+1.9690	+2.6370	09/19/95	505215
			+2.7479	+3.0951	10/17/95	505773
			+11.1600	+10.3630	12/19/95	506921
		K-40	+17.9190	+14.0340	01/10/95	50C208
			+1.4743	+13.7710	12/19/95	506921
		PB-212	+1.3679	+3.4346	03/07/95	501253
			+0.3264	+1.2352	05/02/95	502390
			+1.3700	+1.9465	05/30/95	502998
			+1.1648	+1.7604	07/25/95	504133
		PB-214	+1.6143	+3.6438	07/25/95	504133
			+1.9811	+2.3602	09/19/95	505215
			+2.0505	+3.1888	12/19/95	506921
		TL-208	+0.5422	+1.2890	07/25/95	504133
		SR 89				
			+1.2800	+1.1600	03/07/95	501265
			-0.4269	+1.0300	05/30/95	503009
			+0.4500	+1.2200	08/22/95	504682
			-0.0491	+1.2500	12/19/95	506932
		SR 90				
			-0.1779	+0.6000	03/07/95	501265
			+0.3940	+0.5380	05/30/95	503009
			+0.3530	+0.6970	08/22/95	504682
			+0.2280	+0.5410	12/19/95	506932
		TRITIUM				
			+122.1300	+79.6800	03/07/95	501265

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3134 TRM 517.9	9.9 MILES DOWNSTREA	TRITIUM				
			+181.5100	+81.1200	05/30/95	503009
			+89.1100	+74.2100	08/22/95	504682
			+60.3700	+72.9600	12/19/95	506932
3135 TRM 523.1	4.7 MILES DOWNSTREA	GROSS BETA				
			+2.0545	+0.5720	01/10/95	500209
			+3.8807	+0.6916	02/07/95	500743
			+2.9627	+0.6288	03/07/95	501254
			+3.0687	+0.6345	04/04/95	501807
			+1.8342	+0.5587	05/02/95	502391
			+2.0058	+0.5704	05/30/95	502999
			+2.4335	+0.6039	07/25/95	504134
			+2.2160	+0.6272	08/22/95	504672
			+2.1304	+0.6030	09/19/95	505216
			+2.5698	+0.5961	11/14/95	506398
			+1.8135	+0.5522	12/12/95	506922
		GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/10/95	500209
			NO ACTIVITY DETECTED		03/07/95	501254
			NO ACTIVITY DETECTED		05/02/95	502391
		AC-228	+2.0934	+3.8423	04/04/95	501807
		BI-214	+4.7390	+3.0982	02/07/95	500743
			+0.1690	+1.8177	04/04/95	501807
			+2.7403	+2.6431	08/22/95	504672
			+7.0035	+2.8691	09/19/95	505216
			+7.9154	+3.1892	11/14/95	506398
			+3.7401	+2.6436	12/12/95	506922
		K-40	+0.7922	+15.5450	07/25/95	504134
			+4.9151	+22.4130	09/19/95	505216
			+6.6493	+19.1700	12/12/95	506922
		PB-212	+1.6684	+1.9712	04/04/95	501807
			+0.3973	+1.8712	11/14/95	506398
		PB-214	+2.7378	+2.5625	04/04/95	501807
			+4.3153	+2.4871	09/19/95	505216
			+6.1708	+6.9681	11/14/95	506398
		TL-208	+1.3255	+0.9308	04/04/95	501807
			+0.7364	+1.0257	05/30/95	502999

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3135 TRM 523.1	4.7 MILES DOWNSTREA	SR 89				
			+0.7590	+1.1000	03/07/95	501266
			+0.7120	+1.1200	05/30/95	503010
			+0.7310	+1.0200	08/22/95	504683
			-0.5639	+1.3500	12/12/95	506933
		SR 90				
			+0.2930	+0.5750	03/07/95	501266
			+0.1560	+0.5730	05/30/95	503010
			-0.2399	+0.5760	08/22/95	504683
			+0.5750	+0.5370	12/12/95	506933
		TRITIUM				
			+115.6600	+77.5300	03/07/95	501266
			+5.2400	+79.8800	05/30/95	503010
			+137.2400	+74.8200	08/22/95	504683
			+125.0200	+74.7900	12/12/95	506933

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ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3121 WBN WELL #1 ONSITE S	GROSS BETA				
		+9.5396	+1.3402	03/07/95	501267
		+6.1461	+1.2391	05/30/95	503011
		+10.2940	+1.3798	08/22/95	504684
		+4.8137	+1.1818	12/12/95	506934
	GAMMA SCAN (GELI)				
	BI-214	+2.5967	+2.8064	03/07/95	501267
		+15.6640	+10.1730	05/30/95	503011
		+0.0787	+3.0238	08/22/95	504684
		+12.2070	+3.1359	12/12/95	506934
	K-40	+7.4386	+17.1830	05/30/95	503011
	PB-212	+1.3426	+1.7868	12/12/95	506934
	PB-214	+8.2990	+3.7143	12/12/95	506934
	SR 89				
		-0.1239	+0.8530	03/07/95	501267
		+1.7900	+1.2700	05/30/95	503011
		+1.3400	+1.0200	08/22/95	504684
		+1.7500	+1.1700	12/12/95	506934
	SR 90				
		+0.1850	+0.4510	03/07/95	501267
		-0.2069	+0.4930	05/30/95	503011
		-0.2699	+0.4780	08/22/95	504684
		-0.3469	+0.4540	12/12/95	506934
	TRITIUM				
		+75.9500	+75.2500	03/07/95	501267
		-44.7599	+77.0700	05/30/95	503011
		+136.7600	+74.0700	08/22/95	504684
		+179.6300	+73.7000	12/12/95	506934

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GROSS BETA				
			+4.8314	+0.7214	01/24/95	500401
			+2.7624	+0.6344	02/21/95	500948
			+2.0526	+0.5924	03/21/95	501465
			+2.7945	+0.6193	04/18/95	502007
			+2.2036	+0.6091	05/16/95	502623
			+3.0158	+0.6406	06/13/95	503200
			+3.2970	+0.6483	07/11/95	503831
			+2.7006	+0.6265	08/08/95	504369
			+1.8062	+0.5843	09/05/95	504881
			+2.2147	+0.6143	10/03/95	505425
			+2.6901	+0.6149	10/31/95	506028
			+3.5210	+0.6467	11/28/95	506614
			+2.5698	+0.6212	12/26/95	507124
		GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		03/21/95	501465
			NO ACTIVITY DETECTED		04/18/95	502007
			NO ACTIVITY DETECTED		05/16/95	502623
			NO ACTIVITY DETECTED		06/13/95	503200
			NO ACTIVITY DETECTED		09/05/95	504881
			NO ACTIVITY DETECTED		10/03/95	505425
		AC-228	+2.6985	+4.5018	08/08/95	504369
			+0.1243	+3.2195	11/28/95	506614
		BI-214	+17.2390	+4.3922	01/24/95	500401
			+7.2786	+3.9773	10/31/95	506028
			+20.9880	+3.4143	11/28/95	506614
			+50.1360	+5.4780	12/26/95	507124
		K-40	+5.3942	+13.8110	07/11/95	503831
			+3.8136	+20.7520	11/28/95	506614
			+3.1521	+20.4760	12/26/95	507124
		PB-212	+2.1469	+1.9777	02/21/95	500948
		PB-214	+8.6794	+3.3027	01/24/95	500401
			+2.2293	+3.1182	10/31/95	506028
			+8.5695	+3.4388	11/28/95	506614
			+29.1840	+4.8111	12/26/95	507124
		TL-208	+0.5367	+0.9970	11/28/95	506614
			+0.9670	+1.3865	12/26/95	507124
		SR 89				
			+0.2680	+0.9620	03/21/95	501560

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ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	SR 89				
			+0.6120	+1.2200	06/13/95	503304
			+0.6830	+1.0300	09/05/95	504975
			-0.2499	+0.8910	12/26/95	507218
		SR 90				
			+0.2540	+0.5580	03/21/95	501560
			+0.2470	+0.5740	06/13/95	503304
			+0.3310	+0.5880	09/05/95	504975
			+0.6100	+0.5160	12/26/95	507218
		TRITIUM				
			+139.1800	+77.1700	03/21/95	501560
			+87.9600	+82.7900	06/13/95	503304
			+84.6700	+74.6800	09/05/95	504975
			+130.5400	+73.6700	12/26/95	507218
2140 CF INDUSTRIES	TRM 473.0	GROSS BETA				
			+2.2657	+0.5828	01/17/95	500404
			+1.7882	+0.5743	02/15/95	500952
			+1.2975	+0.5462	03/14/95	501469
			+2.6669	+0.6000	04/18/95	502010
			+1.0860	+0.5352	05/16/95	502628
			+2.8948	+0.6324	06/12/95	503204
			+3.1873	+0.6508	07/10/95	503834
			+2.3984	+0.6051	08/07/95	504372
			+4.3633	+0.7091	09/07/95	504884
			+1.5986	+0.5752	10/02/95	505429
			+3.0171	+0.6323	10/30/95	506031
			+2.8936	+0.6142	11/30/95	506617
			+3.4563	+0.6492	12/27/95	507128
		GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		02/15/95	500952
			NO ACTIVITY DETECTED		03/14/95	501469
			NO ACTIVITY DETECTED		04/18/95	502010
			NO ACTIVITY DETECTED		05/16/95	502628
			NO ACTIVITY DETECTED		06/12/95	503204
			NO ACTIVITY DETECTED		07/10/95	503834

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2140 CF INDUSTRIES	TRM 473.0	GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		10/02/95	505429
		BI-214	+5.4896	+2.4091	01/17/95	500404
			+11.2710	+3.6691	08/07/95	504372
			+17.3660	+3.6775	09/07/95	504884
			+13.6370	+3.2953	10/30/95	506031
			+4.0518	+2.6130	11/30/95	506617
		K-40	+25.5550	+16.3470	09/07/95	504884
			+9.7804	+14.1870	10/30/95	506031
		PB-212	+0.2604	+1.4915	08/07/95	504372
		PB-214	+5.1159	+1.9728	01/17/95	500404
			+9.8184	+2.7377	08/07/95	504372
			+2.9635	+2.1282	09/07/95	504884
			+6.5788	+3.1556	10/30/95	506031
			+0.8410	+2.1687	11/30/95	506617
			+10.3580	+4.8626	12/27/95	507128
		SR 89				
			+2.6700	+1.0800	03/14/95	501561
			-0.2609	+1.1800	06/12/95	503305
			+0.2000	+0.9390	09/07/95	504976
			-0.6899	+0.9660	12/27/95	507219
		SR 90				
			-0.9859	+0.5480	03/14/95	501561
			+0.5070	+0.5520	06/12/95	503305
			+0.4370	+0.5520	09/07/95	504976
			+1.0400	+0.5700	12/27/95	507219
		TRITIUM				
			+215.4200	+78.3100	03/14/95	501561
			+324.4900	+86.5800	06/12/95	503305
			+196.4600	+76.0600	09/07/95	504976
			+128.7400	+73.1500	12/27/95	507219
3133 TRM 529.3	1.5 MILES UPSTREAM	GROSS BETA				
			+2.0738	+0.5771	01/10/95	500206
			+3.0886	+0.6308	02/07/95	500740
			+2.7814	+0.6166	03/07/95	501251

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3133 TRM 529.3	1.5 MILES UPSTREAM	GROSS BETA				
			+2.0703	+0.5763	04/04/95	501804
			+3.0159	+0.6237	05/02/95	502388
			+2.4895	+0.5968	05/30/95	502996
			+2.8714	+0.6361	06/27/95	503608
			+2.7693	+0.6228	07/25/95	504131
			+2.9305	+0.6566	08/22/95	504669
			+2.3276	+0.6111	09/19/95	505213
			+2.3752	+0.5900	10/17/95	505771
			+3.1724	+0.6319	11/14/95	506395
			+2.5058	+0.5907	12/12/95	506919
		GAMMA SCAN (GELI)				
			NO ACTIVITY DETECTED		01/10/95	500206
			NO ACTIVITY DETECTED		05/02/95	502388
			NO ACTIVITY DETECTED		08/22/95	504669
		AC-228	+0.4029	+3.4566	02/07/95	500740
			+3.5871	+4.2050	04/04/95	501804
			+9.8619	+5.0281	10/17/95	505771
		BI-214	+2.8875	+2.5369	02/07/95	500740
			+1.1381	+6.8148	04/04/95	501804
			+4.0105	+10.5690	05/30/95	502996
			+11.1430	+3.3962	09/19/95	505213
			+6.4708	+2.8985	10/17/95	505771
			+4.7525	+3.0320	11/14/95	506395
			+6.2693	+2.8414	12/12/95	506919
		K-40	+35.7080	+20.3020	03/07/95	501251
			+8.5426	+14.4670	05/30/95	502996
			+1.7287	+16.4700	06/27/95	503608
			+8.7631	+13.2790	09/19/95	505213
			+17.5260	+21.2280	10/17/95	505771
		PB-212	+2.9206	+1.8199	03/07/95	501251
			+0.6682	+1.5400	04/04/95	501804
			+3.7533	+2.1911	07/25/95	504131
			+1.8034	+1.9393	10/17/95	505771
		PB-214	+3.7111	+2.5891	02/07/95	500740
			+0.1608	+3.0884	07/25/95	504131
			+8.7539	+2.7504	09/19/95	505213
			+5.9050	+3.1219	10/17/95	505771

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3133 TRM 529.3	1.5 MILES UPSTREAM	GAMMA SCAN (GELI)				
		PB-214	+0.9446	+2.5497	11/14/95	506395
			+1.3608	+2.3186	12/12/95	506919
		TL-208	+0.7325	+0.9624	09/19/95	505213
			+0.8616	+1.3489	10/17/95	505771
		SR 89				
			+1.3200	+1.2000	03/07/95	501264
			-0.3269	+1.0200	05/30/95	503008
			+0.7500	+1.1200	08/22/95	504681
			+2.8300	+1.5700	12/12/95	506931
		SR 90				
			+0.1070	+0.6240	03/07/95	501264
			+0.6320	+0.5360	05/30/95	503008
			+0.0644	+0.6420	08/22/95	504681
			-0.6379	+0.6020	12/12/95	506931
		TRITIUM				
			+135.0500	+79.2000	03/07/95	501264
			+214.1300	+82.7400	05/30/95	503008
			+163.1500	+74.6300	08/22/95	504681
			-19.1099	+71.2900	12/12/95	506931

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CORN
PCI/KG - 0.037 BQ/KG (WET WT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GAMMA SCAN (GELI)				
		K-40	+1917.5000	+155.7000	07/25/95	502296
3209 OWEN HENDERSON FARM	4.8 MILES WSW	GAMMA SCAN (GELI)				
		K-40	+2245.3000	+184.6500	07/18/95	502364
		PB-212	+3.5565	+3.4727	07/18/95	502364

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN CRAPPIE FLESH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2160 CHICKAMAUGA RES	TRM 471-530	GAMMA SCAN (GELI)				
		BI-214	+0.0228	+0.0113	04/28/95	502327
			+0.0896	+0.0165	10/09/95	506048
		CS-134	+0.0251	+0.0052	10/09/95	506048
		CS-137	+0.0490	+0.0070	04/28/95	502327
			+0.0706	+0.0081	10/09/95	506048
		K-40	+15.2610	+0.7802	04/28/95	502327
			+12.9690	+0.6671	10/09/95	506048
		PB-212	+0.0032	+0.0053	10/09/95	506048
		PB-214	+0.0348	+0.0108	04/28/95	502327
			+0.0939	+0.0136	10/09/95	506048
2161 WATTS BAR RES	TRM 530-602	GAMMA SCAN (GELI)				
		BI-214	+0.0503	+0.0133	10/17/95	506052
		CS-137	+0.0624	+0.0071	04/28/95	502331
			+0.0665	+0.0076	10/17/95	506052
		K-40	+14.9980	+0.7878	04/28/95	502331
			+13.6330	+0.6481	10/17/95	506052
		PB-214	+0.0112	+0.0115	10/17/95	506052

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN GRAB WELL WATER(Total)
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3115 LAYMAN FARM	1.3 MILES SW	GROSS BETA				
			+1.6764	+0.5510	03/07/95	501244
			+0.9623	+0.5058	05/30/95	502989
			+1.6799	+0.5738	08/22/95	504662
			+1.5041	+0.5390	12/12/95	506911
		GAMMA SCAN (GELI)				
		BI-214	+314.0900	+17.8770	03/07/95	501244
			+512.7500	+26.8860	05/30/95	502989
			+511.2100	+22.8070	08/22/95	504662
			+512.2700	+24.7910	12/12/95	506911
		K-40	+1.9098	+24.7040	03/07/95	501244
			+8.1669	+23.1680	08/22/95	504662
		PB-212	+9.3227	+2.6571	05/30/95	502989
		PB-214	+318.7900	+16.6870	03/07/95	501244
			+530.3600	+28.8780	05/30/95	502989
			+508.2900	+27.4300	08/22/95	504662
			+520.5200	+24.4590	12/12/95	506911
		SR 89				
			-1.1599	+1.0500	03/07/95	501244
			+0.0310	+1.1000	05/30/95	502989
			+1.0300	+1.1400	08/22/95	504662
			+1.2800	+1.4000	12/12/95	506911
		SR 90				
			+0.8320	+0.5670	03/07/95	501244
			+0.0722	+0.5600	05/30/95	502989
			-0.3239	+0.6480	08/22/95	504662
			-0.0483	+0.5590	12/12/95	506911
		TRITIUM				
			+49.0000	+74.7600	03/07/95	501244
			+7.4600	+77.8800	05/30/95	502989
			-4.8899	+72.9800	08/22/95	504662
			+184.0200	+73.3000	12/12/95	506911

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN GREEN BEANS
PCI/KG - 0.037 BQ/KG (WET WT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GAMMA SCAN (GELI) K-40	+1809.4000	+154.3800	06/27/95	502301
3168 2.0 MILES S		GAMMA SCAN (GELI) K-40	+1801.9000	+148.7600	07/11/95	502365

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2122 SHADDON FARM	12.0 MILES NNE	IODINE-131				
			-0.0531	+0.0732	01/11/95	500163
			-0.0147	+0.0759	01/25/95	500402
			-0.0340	+0.0754	02/08/95	500697
			-0.2380	+0.1385	02/22/95	500949
			-0.0386	+0.0855	03/08/95	501207
			-0.0155	+0.0800	03/22/95	501467
			-0.0999	+0.0752	04/05/95	501761
			-0.0159	+0.0821	04/19/95	502008
			-0.0332	+0.0736	05/03/95	502317
			-0.0934	+0.0703	05/17/95	502626
			-0.0151	+0.0780	05/31/95	502952
			-0.0563	+0.0778	06/14/95	503202
			-0.0338	+0.0750	06/28/95	503565
			-0.0205	+0.0618	07/12/95	503832
			-0.0689	+0.0678	07/26/95	504087
			-0.0104	+0.0331	08/09/95	504370
			-0.0157	+0.0811	08/23/95	504625
			+0.0408	+0.0708	09/06/95	504882
			+0.0249	+0.0899	09/20/95	505169
			+0.0227	+0.0822	10/04/95	505427
			+0.0372	+0.0527	10/18/95	505727
			+0.0460	+0.0932	11/01/95	506029
			+0.0249	+0.0901	11/15/95	506352
			+0.0236	+0.0853	11/29/95	506615
			+0.0623	+0.0751	12/13/95	506874
			+0.0114	+0.0425	12/27/95	507126
		GAMMA SCAN (GELI)				
		AC-228	+7.1044	+8.3475	04/19/95	502008
			+0.7504	+4.6158	05/03/95	502317
			+2.9785	+3.5656	07/12/95	503832
			+6.4425	+4.9011	09/20/95	505169
			+2.2732	+5.8976	11/29/95	506615
		BI-214	+2.4196	+2.9736	01/11/95	500163
			+59.6650	+7.5754	01/25/95	500402
			+155.0100	+10.6810	02/08/95	500697
			+96.2090	+9.2236	03/08/95	501207
			+30.4800	+4.2754	03/22/95	501467

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2122 SHADDON FARM	12.0 MILES NNE	GAMMA SCAN (GELI)				
		BI-214	+145.2000	+10.5250	04/05/95	501761
			+4.8277	+2.3906	04/19/95	502008
			+1.0781	+2.9082	05/03/95	502317
			+38.2580	+5.0903	05/17/95	502626
			+57.2330	+5.2163	05/31/95	502952
			+5.4708	+3.5007	06/14/95	503202
			+52.7190	+5.0424	06/28/95	503565
			+182.0000	+12.3020	07/12/95	503832
			+186.4100	+12.4030	07/26/95	504087
			+1.0495	+3.2508	08/09/95	504370
			+50.9240	+5.7152	08/23/95	504625
			+4.8271	+2.4500	09/06/95	504882
			+0.2701	+2.3524	09/20/95	505169
			+17.8220	+3.8845	10/04/95	505427
			+10.1410	+3.5028	10/18/95	505727
			+3.0526	+2.9813	11/01/95	506029
			+151.0900	+9.7376	11/15/95	506352
			+105.4700	+8.0379	11/29/95	506615
			+2.4887	+2.5967	12/13/95	506874
			+12.9000	+3.5981	12/27/95	507126
		CS-137	+3.4120	+1.2582	08/09/95	504370
		K-40	+1510.9000	+96.6240	01/11/95	500163
			+1196.5000	+78.9330	01/25/95	500402
			+1070.3000	+77.5120	02/08/95	500697
			+1404.7000	+95.2880	02/22/95	500949
			+1095.2000	+77.9800	03/08/95	501207
			+1210.0000	+83.4960	03/22/95	501467
			+812.9700	+60.6440	04/05/95	501761
			+1364.3000	+89.2690	04/19/95	502008
			+1460.5000	+97.8400	05/03/95	502317
			+1276.8000	+94.2040	05/17/95	502626
			+1162.2000	+172.0900	05/31/95	502952
			+1301.4000	+76.5130	06/14/95	503202
			+1143.6000	+74.3010	06/28/95	503565
			+886.7300	+76.9880	07/12/95	503832
			+984.6000	+68.7120	07/26/95	504087
			+1575.7000	+121.1600	08/09/95	504370
			+955.7500	+82.8730	08/23/95	504625

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2122 SHADDON FARM	12.0 MILES NNE	GAMMA SCAN (GELI)				
		K-40	+1334.1000	+86.6980	09/06/95	504882
			+1302.0000	+96.8180	09/20/95	505169
			+1280.1000	+97.8520	10/04/95	505427
			+1316.0000	+104.6400	10/18/95	505727
			+1271.6000	+94.3150	11/01/95	506029
			+908.3500	+73.6360	11/15/95	506352
			+1052.3000	+79.5530	11/29/95	506615
			+1280.2000	+104.6400	12/13/95	506874
			+1338.1000	+100.9000	12/27/95	507126
		PB-212	+2.1022	+3.1340	01/11/95	500163
			+0.9191	+1.9577	02/08/95	500697
			+3.1834	+2.5630	02/22/95	500949
			+0.2651	+1.9904	03/08/95	501207
			+2.6650	+2.4887	03/22/95	501467
			+1.7177	+2.0023	04/19/95	502008
			+0.2687	+2.0714	05/03/95	502317
			+0.9704	+2.0030	05/17/95	502626
			+1.3821	+1.9581	05/31/95	502952
			+0.6594	+2.3044	06/14/95	503202
			+1.1171	+1.6867	06/28/95	503565
			+0.7598	+2.2408	08/09/95	504370
			+1.5059	+2.7962	09/06/95	504882
			+0.6818	+1.8503	10/04/95	505427
			+2.7844	+2.3614	11/15/95	506352
			+1.4097	+1.9883	11/29/95	506615
			+0.9251	+2.6375	12/13/95	506874
			+1.6673	+2.7247	12/27/95	507126
		PB-214	+54.1920	+4.8161	01/25/95	500402
			+142.2000	+12.8570	02/08/95	500697
			+97.4750	+7.8634	03/08/95	501207
			+28.5520	+3.2849	03/22/95	501467
			+161.4200	+11.4380	04/05/95	501761
			+1.7752	+2.6186	05/03/95	502317
			+38.2790	+4.1040	05/17/95	502626
			+52.1930	+5.9292	05/31/95	502952
			+61.7540	+6.7022	06/28/95	503565
			+188.3800	+12.2790	07/12/95	503832
			+184.8000	+12.8640	07/26/95	504087

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2122 SHADDON FARM	12.0 MILES NNE	GAMMA SCAN (GELI)				
		PB-214	+48.6460	+6.7334	08/23/95	504625
			+7.3644	+3.8092	09/06/95	504882
			+1.6889	+2.1536	09/20/95	505169
			+11.1460	+4.1173	10/04/95	505427
			+12.2390	+3.7582	10/18/95	505727
			+152.2000	+10.7310	11/15/95	506352
			+90.8790	+7.5075	11/29/95	506615
			+1.2908	+2.4478	12/13/95	506874
			+10.3700	+3.3971	12/27/95	507126
		TL-208	+1.6876	+1.2671	01/11/95	500163
			+1.7855	+1.3218	04/19/95	502008
			+0.2963	+1.1038	05/03/95	502317
			+0.8200	+0.9540	05/17/95	502626
			+0.4073	+1.1655	07/12/95	503832
			+1.9351	+1.8887	09/06/95	504882
			+3.5176	+1.7443	09/20/95	505169
			+2.0630	+1.6460	10/18/95	505727
			+4.3188	+1.8790	11/29/95	506615
			+0.3400	+0.9838	12/13/95	506874
		SR 89				
			-0.0527	+0.8890	03/08/95	501207
			+0.3610	+0.8490	05/31/95	502952
			+1.9500	+1.0100	08/23/95	504625
			+0.7300	+0.8530	12/13/95	506874
		SR 90				
			+2.1100	+0.6140	03/08/95	501207
			+1.1800	+0.5680	05/31/95	502952
			+0.2550	+0.6490	08/23/95	504625
			+0.6140	+0.5690	12/13/95	506874
2202 BILDERBACK FARM	43.0 MILES NE	IODINE-131				
			-0.0105	+0.0334	01/11/95	500166
			+0.0407	+0.0527	01/25/95	500413
			+0.0073	+0.0468	02/07/95	500701
			-0.0109	+0.0347	02/22/95	500961
			-0.0167	+0.0394	03/07/95	501210

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2202 BILDERBACK FARM	43.0 MILES NE	IODINE-131				
			-0.0148	+0.0471	03/21/95	501478
			-0.0245	+0.0737	04/04/95	501764
			+0.0123	+0.0462	04/18/95	502020
			+0.0345	+0.0489	05/03/95	502335
			+0.0371	+0.0526	05/16/95	502638
			+0.0121	+0.0453	05/30/95	502956
			-0.0139	+0.0443	06/27/95	503568
			+0.0001	+0.0715	07/11/95	503843
			+0.0071	+0.0454	07/25/95	504091
			-0.0114	+0.0362	08/08/95	504381
			+0.0356	+0.0505	08/22/95	504628
			+0.0070	+0.0449	09/05/95	504894
			+0.0331	+0.0553	09/19/95	505173
			-0.0122	+0.0389	10/03/95	505438
			+0.0690	+0.0986	10/17/95	505731
			+0.0395	+0.0560	10/31/95	506055
			+0.0487	+0.0987	11/14/95	506355
			+0.0387	+0.0549	11/28/95	506626
			+0.0116	+0.0432	12/12/95	506877
			-0.0118	+0.0375	12/26/95	507137
		GAMMA SCAN (GELI)				
		AC-228	+5.8941	+4.2102	04/18/95	502020
		BI-214	+4.4354	+10.4340	01/11/95	500166
			+0.4333	+2.6173	01/25/95	500413
			+8.8783	+4.6207	02/07/95	500701
			+1.5955	+2.3073	02/22/95	500961
			+34.6240	+5.8706	04/04/95	501764
			+6.6985	+9.4483	05/16/95	502638
			+0.6126	+7.6489	07/11/95	503843
			+8.2838	+8.4593	08/08/95	504381
			+2.0067	+3.5507	08/22/95	504628
			+1.6656	+8.3848	09/19/95	505173
			+11.4110	+12.4910	10/03/95	505438
			+9.4886	+4.7968	10/17/95	505731
			+4.1656	+2.5144	11/14/95	506355
			+4.5112	+2.9084	11/28/95	506626
			+5.6329	+3.2389	12/12/95	506877

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2202 BILDERBACK FARM	43.0 MILES NE	GAMMA SCAN (GELI)				
		BI-214	+21.0970	+3.4439	12/26/95	507137
		K-40	+1334.2000	+89.4500	01/11/95	500166
			+1319.3000	+97.8820	01/25/95	500413
			+1516.2000	+127.5800	02/07/95	500701
			+1392.9000	+98.0880	02/22/95	500961
			+1257.3000	+84.4330	03/07/95	501210
			+1359.8000	+85.0180	03/21/95	501478
			+1391.6000	+97.9950	04/04/95	501764
			+1271.3000	+85.5180	04/18/95	502020
			+1263.2000	+74.1530	05/03/95	502335
			+1250.0000	+82.5470	05/16/95	502638
			+1347.7000	+98.0940	05/30/95	502956
			+1370.8000	+93.2760	06/27/95	503568
			+1532.0000	+104.2200	07/11/95	503843
			+1346.9000	+99.1170	07/25/95	504091
			+1374.0000	+90.6610	08/08/95	504381
			+1462.0000	+100.5100	08/22/95	504628
			+1344.6000	+94.5730	09/05/95	504894
			+1444.4000	+101.6200	09/19/95	505173
			+1346.0000	+85.6390	10/03/95	505438
			+1393.1000	+106.5100	10/17/95	505731
			+1297.3000	+115.9700	10/31/95	506055
			+1382.6000	+89.7990	11/14/95	506355
			+1350.6000	+97.9990	11/28/95	506626
			+1357.5000	+81.8320	12/12/95	506877
			+1333.2000	+96.7090	12/26/95	507137
		PB-212	+1.5182	+1.4060	02/22/95	500961
			+5.8657	+2.8237	07/11/95	503843
			+1.0474	+2.6396	08/08/95	504381
		PB-214	+0.6194	+3.4561	01/25/95	500413
			+25.0680	+5.5692	04/04/95	501764
			+3.5200	+3.0054	09/05/95	504894
			+1.5575	+3.1339	10/03/95	505438
			+12.2820	+4.0640	11/14/95	506355
			+4.9661	+3.2117	11/28/95	506626
			+17.2400	+5.7108	12/26/95	507137
		TL-208	+0.2099	+1.5918	06/27/95	503568
			+0.5829	+0.8795	07/11/95	503843

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2202 BILDERBACK FARM	43.0 MILES NE	SR 89				
			-0.2659	+0.8490	03/07/95	501210
			-0.3449	+0.8810	05/30/95	502956
			+0.4730	+0.9240	08/22/95	504628
			+1.2300	+1.0700	12/12/95	506877
		SR 90				
			+1.2700	+0.5650	03/07/95	501210
			+1.1400	+0.5780	05/30/95	502956
			+0.5470	+0.5950	08/22/95	504628
			+0.4130	+0.6870	12/12/95	506877
2203 CRUMLEY FARM	16.0 MILES NE	IODINE-131				
			-0.0161	+0.0380	01/11/95	500167
			-0.0723	+0.0712	01/25/95	500414
			-0.0542	+0.0749	02/08/95	500702
			+0.0151	+0.0966	02/22/95	500962
			+0.0308	+0.0514	03/08/95	501211
			-0.0168	+0.0397	03/22/95	501479
			-0.0113	+0.0359	04/05/95	501766
			+0.0076	+0.0490	04/19/95	502021
			-0.0165	+0.0390	05/03/95	502336
			+0.0001	+0.0737	05/17/95	502639
			+0.0425	+0.0737	05/31/95	502957
			+0.0117	+0.0436	06/14/95	503214
			-0.0524	+0.0723	06/28/95	503569
			+0.0121	+0.0451	07/12/95	503844
			-0.0355	+0.0788	07/26/95	504092
			+0.0306	+0.0511	08/09/95	504382
			+0.0237	+0.0858	08/23/95	504629
			-0.0151	+0.0781	09/06/95	504895
			-0.0609	+0.0841	09/20/95	505174
			+0.0218	+0.0724	10/04/95	505439
			+0.0635	+0.0600	10/18/95	505732
			-0.0189	+0.0446	11/01/95	506056
			+0.0001	+0.0724	11/15/95	506356
			+0.0071	+0.0457	11/29/95	506627
			+0.0418	+0.0846	12/13/95	506879
			+0.0312	+0.0521	12/27/95	507138

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2203 CRUMLEY FARM	16.0 MILES NE	GAMMA SCAN (GELI)				
		BI-214	+5.4938	+3.5736	01/25/95	500414
			+1.0157	+2.7784	05/31/95	502957
			+4.3689	+4.2107	06/14/95	503214
			+10.2720	+5.7853	09/06/95	504895
			+3.3632	+4.7300	10/04/95	505439
			+16.8540	+4.1996	10/18/95	505732
			+8.3071	+4.7104	11/15/95	506356
			+16.5170	+4.9524	11/29/95	506627
		K-40	+1306.2000	+114.0500	01/11/95	500167
			+1315.4000	+101.5200	01/25/95	500414
			+1391.7000	+122.1900	02/08/95	500702
			+1260.1000	+87.6620	02/22/95	500962
			+1342.2000	+93.9190	03/08/95	501211
			+1407.7000	+99.8630	03/22/95	501479
			+1294.7000	+85.8170	04/05/95	501766
			+1309.8000	+93.6780	04/19/95	502021
			+1171.3000	+89.4430	05/03/95	502336
			+1202.0000	+103.8000	05/17/95	502639
			+1376.8000	+93.7260	05/31/95	502957
			+1395.5000	+99.5560	06/14/95	503214
			+1436.1000	+96.0340	06/28/95	503569
			+1354.0000	+107.6800	07/12/95	503844
			+1359.1000	+95.3890	07/26/95	504092
			+1463.5000	+140.7200	08/09/95	504382
			+1503.2000	+120.1900	08/23/95	504629
			+1515.8000	+116.7500	09/06/95	504895
			+1648.4000	+116.4600	09/20/95	505174
			+1363.9000	+94.2320	10/04/95	505439
			+1502.2000	+94.9000	10/18/95	505732
			+1401.7000	+107.4500	11/01/95	506056
			+1440.8000	+98.3240	11/15/95	506356
			+1498.0000	+108.5200	11/29/95	506627
			+1420.6000	+92.1380	12/13/95	506879
			+1348.6000	+114.3400	12/27/95	507138
		PB-212	+3.5216	+2.1516	02/22/95	500962
		PB-214	+2.2557	+4.1475	09/06/95	504895
			+13.7460	+3.4530	10/18/95	505732
		TL-208	+0.1658	+1.4487	05/31/95	502957

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2203 CRUMLEY FARM	16.0 MILES NE	SR 89				
			+0.1230	+0.9390	03/08/95	501211
			+0.7800	+1.0600	05/31/95	502957
			+0.8480	+1.1400	08/23/95	504629
			+1.0900	+1.0100	12/13/95	506879
		SR 90				
			+1.3400	+0.6220	03/08/95	501211
			+0.7080	+0.6960	05/31/95	502957
			+1.0900	+0.7380	08/23/95	504629
			+1.0300	+0.6610	12/13/95	506879
3115 LAYMAN FARM	1.3 MILES SW	IODINE-131				
			+0.0073	+0.0470	01/10/95	500200
			-0.0570	+0.0786	01/24/95	500444
			+0.0074	+0.0473	02/07/95	500734
			-0.0646	+0.0650	02/21/95	500992
			+0.0450	+0.0780	03/07/95	501245
			+0.0078	+0.0502	03/21/95	501511
			+0.0254	+0.0842	04/04/95	501798
			-0.0137	+0.0437	04/18/95	502051
			+0.0113	+0.0424	05/02/95	502382
			+0.0382	+0.0541	05/16/95	502678
			+0.0355	+0.0503	05/30/95	502990
			-0.0115	+0.0367	06/13/95	503253
			-0.0649	+0.0577	06/27/95	503602
			+0.0136	+0.0507	07/11/95	503875
			+0.0073	+0.0466	07/25/95	504124
			+0.0349	+0.0495	08/08/95	504412
			+0.0043	+0.0904	08/22/95	504663
			+0.0230	+0.0831	09/05/95	504927
			+0.0279	+0.1010	09/19/95	505206
			-0.0171	+0.0881	10/03/95	505469
			+0.0131	+0.0490	10/17/95	505765
			+0.0085	+0.0543	10/31/95	506094
			-0.0199	+0.0471	11/14/95	506388
			+0.0368	+0.0522	11/14/95	506389
			-0.0171	+0.0403	11/28/95	506658
			+0.0076	+0.0486	12/12/95	506913

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3115 LAYMAN FARM	1.3 MILES SW	IODINE-131	+0.0302	+0.0505	12/26/95	507170
		GAMMA SCAN (GELI)				
		BI-214	+106.8100	+8.4689	01/24/95	500444
			+0.8537	+2.9877	04/04/95	501798
			+1.3743	+3.1252	05/30/95	502990
			+3.5962	+2.9194	06/13/95	503253
			+0.8293	+2.2778	09/05/95	504927
			+10.2710	+3.5676	10/03/95	505469
			+1.6241	+3.0172	10/17/95	505765
			+128.8900	+10.1440	11/14/95	506388
			+44.6110	+5.6899	11/14/95	506389
			+7.2322	+3.0286	11/28/95	506658
			+38.0730	+5.3968	12/12/95	506913
			+1.0378	+2.9527	12/26/95	507170
		K-40	+1437.0000	+107.1100	01/10/95	500200
			+984.6900	+80.2000	01/24/95	500444
			+1426.7000	+93.3850	02/07/95	500734
			+1245.7000	+97.8010	02/21/95	500992
			+1387.8000	+92.8630	03/07/95	501245
			+1426.1000	+94.7300	03/21/95	501511
			+1391.9000	+92.5710	04/04/95	501798
			+1369.1000	+85.4280	04/18/95	502051
			+1397.1000	+434.2600	05/02/95	502382
			+1357.0000	+88.2680	05/16/95	502678
			+1430.2000	+96.3690	05/30/95	502990
			+1225.7000	+91.8800	06/13/95	503253
			+1269.8000	+198.0800	06/27/95	503602
			+1429.2000	+82.0890	07/11/95	503875
			+1530.6000	+98.8250	07/25/95	504124
			+1226.5000	+77.7860	08/08/95	504412
			+1165.6000	+85.0280	08/22/95	504663
			+1275.6000	+81.8070	09/05/95	504927
			+1448.4000	+91.9120	09/19/95	505206
			+1417.2000	+94.7110	10/03/95	505469
			+1428.6000	+95.4750	10/17/95	505765
			+1585.9000	+104.9400	10/31/95	506094
			+1016.4000	+68.8520	11/14/95	506388

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3115 LAYMAN FARM	1.3 MILES SW	GAMMA SCAN (GELI)				
		K-40	+1110.5000	+78.6430	11/14/95	506389
			+1309.5000	+89.4290	11/28/95	506658
			+1060.3000	+77.4460	12/12/95	506913
			+1266.4000	+80.3590	12/26/95	507170
		PB-212	+0.9499	+2.0368	01/24/95	500444
			+0.3240	+1.7140	02/21/95	500992
			+1.9182	+2.7127	04/18/95	502051
			+0.9144	+1.6492	07/25/95	504124
			+3.0280	+2.1052	11/14/95	506389
		PB-214	+93.4400	+6.3101	01/24/95	500444
			+0.1854	+1.5037	02/21/95	500992
			+4.9726	+3.3265	10/03/95	505469
			+3.5659	+2.7510	10/17/95	505765
			+136.4700	+9.1377	11/14/95	506388
			+35.6820	+4.6232	11/14/95	506389
			+36.3090	+3.8134	12/12/95	506913
		TL-208	+0.2354	+1.6305	03/21/95	501511
			+1.4512	+1.3845	04/04/95	501798
		SR 89				
			+0.4940	+0.8680	03/07/95	501245
			-1.0399	+1.0300	05/30/95	502990
			+0.0244	+0.9030	08/22/95	504663
		SR 90				
			+1.3800	+0.5820	03/07/95	501245
			+3.3400	+0.7160	05/30/95	502990
			+1.7600	+0.6120	08/22/95	504663
3116 MULLINS FARM	3.7 M. ESE	IODINE-131				
			-0.0114	+0.0362	01/11/95	500203
			+0.0829	+0.0780	01/25/95	500445
			+0.0325	+0.0461	02/07/95	500737
			+0.0071	+0.0452	02/21/95	500993
			+0.0116	+0.0436	03/07/95	501248
			-0.0128	+0.0408	03/21/95	501512
			+0.0120	+0.0448	04/04/95	501801
			+0.0077	+0.0497	04/18/95	502052

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3116 MULLINS FARM	3.7 M. ESE	IODINE-131				
			-0.0163	+0.0386	05/02/95	502385
			+0.0001	+0.0769	05/16/95	502679
			-0.0359	+0.0796	05/30/95	502993
			-0.0567	+0.0783	06/13/95	503254
			-0.0113	+0.0360	06/27/95	503605
			+0.0001	+0.0661	07/11/95	503876
			+0.0069	+0.0441	07/25/95	504128
			-0.0171	+0.0404	08/08/95	504413
			+0.0235	+0.0778	08/22/95	504666
			+0.0213	+0.0708	09/05/95	504928
			-0.0677	+0.0601	09/19/95	505209
			+0.0348	+0.0581	10/03/95	505470
			+0.0608	+0.0634	10/17/95	505768
			-0.0125	+0.0398	10/31/95	506095
			+0.0240	+0.0796	11/14/95	506392
			+0.0440	+0.0764	11/28/95	506659
			-0.0223	+0.0674	12/12/95	506916
			+0.0325	+0.0542	12/26/95	507171
		GAMMA SCAN (GELI)				
		AC-228	+4.7147	+4.9838	07/25/95	504128
			+4.9597	+4.0082	12/12/95	506916
		BI-214	+5.8043	+2.6788	01/25/95	500445
			+1.4184	+2.1929	06/13/95	503254
			+0.5869	+2.5502	07/25/95	504128
			+0.6685	+3.1840	08/22/95	504666
			+0.2680	+2.5840	09/05/95	504928
			+1.7137	+2.8389	10/03/95	505470
			+2.0323	+2.1948	10/17/95	505768
			+6.0913	+3.0842	10/31/95	506095
			+9.7662	+4.1802	11/14/95	506392
			+5.6042	+3.2773	11/28/95	506659
			+1.4688	+2.4795	12/26/95	507171
		CS-137	+2.7912	+1.0285	10/31/95	506095
		K-40	+1410.6000	+103.7600	01/11/95	500203
			+1535.8000	+89.0570	01/25/95	500445
			+1526.5000	+114.5100	02/07/95	500737
			+1477.5000	+100.0700	02/21/95	500993

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3116 MULLINS FARM	3.7 M. ESE	GAMMA SCAN (GELI)				
		K-40	+1345.0000	+95.8260	03/07/95	501248
			+1395.2000	+113.2300	03/21/95	501512
			+1581.2000	+106.5600	04/04/95	501801
			+1430.1000	+88.9990	04/18/95	502052
			+1328.9000	+94.6810	05/02/95	502385
			+1470.2000	+85.2070	05/16/95	502679
			+1341.4000	+95.9050	05/30/95	502993
			+1447.5000	+209.9600	06/13/95	503254
			+1433.3000	+98.1650	06/27/95	503605
			+1226.1000	+86.8280	07/11/95	503876
			+1364.2000	+88.0860	07/25/95	504128
			+1393.6000	+100.6900	08/08/95	504413
			+1567.2000	+103.4400	08/22/95	504666
			+1356.2000	+94.2070	09/05/95	504928
			+1348.6000	+90.7570	09/19/95	505209
			+1380.9000	+98.0460	10/03/95	505470
			+1385.0000	+86.4380	10/17/95	505768
			+1432.5000	+90.6780	10/31/95	506095
			+1451.6000	+90.1440	11/14/95	506392
			+1314.9000	+87.2270	11/28/95	506659
			+1476.3000	+102.6800	12/12/95	506916
			+1426.8000	+107.6700	12/26/95	507171
		PB-212	+3.3643	+2.4046	10/31/95	506095
		PB-214	+2.1515	+2.1221	06/13/95	503254
			+2.2281	+2.9086	10/31/95	506095
			+8.6048	+3.5089	11/14/95	506392
			+1.9360	+2.8257	11/28/95	506659
			+2.2931	+3.5226	12/26/95	507171
		TL-208	+0.4688	+0.9690	08/22/95	504666
			+2.3039	+1.2464	09/19/95	505209
		SR 89				
			+0.5370	+0.8470	03/07/95	501248
			+0.8080	+1.0000	05/30/95	502993
			+0.2950	+0.9550	08/22/95	504666
			+1.5400	+1.0600	12/12/95	506916
		SR 90				
			+1.2500	+0.5660	03/07/95	501248

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3116 MULLINS FARM	3.7 M. ESE	SR 90				
			+1.4900	+0.6630	05/30/95	502993
			+1.5600	+0.6380	08/22/95	504666
			+0.7240	+0.6940	12/12/95	506916
3119 NORTON FARM	4.1 MILES ESE	IODINE-131				
			+0.0069	+0.0444	01/11/95	500204
			-0.0107	+0.0341	01/25/95	500446
			+0.0070	+0.0448	02/07/95	500738
			+0.0717	+0.0921	02/21/95	500994
			-0.0162	+0.0384	03/07/95	501249
			+0.0076	+0.0485	03/21/95	501513
			-0.0164	+0.0844	04/04/95	501802
			+0.0326	+0.0545	04/18/95	502054
			-0.0212	+0.0638	05/02/95	502386
			+0.0119	+0.0445	05/16/95	502680
			+0.0001	+0.0713	05/30/95	502994
			+0.0001	+0.0703	06/13/95	503255
			-0.0207	+0.0625	06/27/95	503606
			-0.0111	+0.0355	07/11/95	503877
			-0.0209	+0.0630	07/25/95	504129
			+0.0001	+0.0652	08/08/95	504414
			-0.0128	+0.0409	08/22/95	504667
			-0.0191	+0.0451	09/19/95	505211
			+0.0074	+0.0473	10/03/95	505472
			+0.1128	+0.1041	10/17/95	505769
			+0.0349	+0.0584	10/31/95	506096
			+0.0372	+0.0527	11/14/95	506393
			+0.0349	+0.0495	11/28/95	506660
			-0.0677	+0.0602	12/12/95	506917
			+0.0206	+0.0683	12/26/95	507172
		GAMMA SCAN (GELI)				
		BI-214	+7.2665	+5.7606	01/25/95	500446
			+0.4699	+3.7717	02/21/95	500994
			+66.3480	+8.0235	05/02/95	502386
			+5.1746	+3.3689	06/27/95	503606
			+1.9453	+2.9698	07/11/95	503877
			+1.4372	+2.3444	10/17/95	505769

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3119 NORTON FARM	4.1 MILES ESE	GAMMA SCAN (GELI)				
		BI-214	+1.6374	+3.0959	10/31/95	506096
			+1.3353	+2.4775	11/28/95	506660
		K-40	+1449.5000	+97.7930	01/11/95	500204
			+1513.5000	+106.3700	01/25/95	500446
			+1370.3000	+126.3200	02/07/95	500738
			+1599.8000	+92.6570	02/21/95	500994
			+1346.7000	+369.7600	03/07/95	501249
			+1493.9000	+114.1200	03/21/95	501513
			+1434.9000	+104.0300	04/04/95	501802
			+1445.5000	+119.8600	04/18/95	502054
			+1103.5000	+85.2060	05/02/95	502386
			+1222.4000	+97.3260	05/16/95	502680
			+1386.9000	+82.7520	05/30/95	502994
			+1397.7000	+92.4340	06/13/95	503255
			+1408.0000	+99.5500	06/27/95	503606
			+1339.9000	+93.8410	07/11/95	503877
			+1332.2000	+84.6760	07/25/95	504129
			+1383.6000	+102.3500	08/08/95	504414
			+1480.3000	+100.3400	08/22/95	504667
			+1500.2000	+106.1900	09/05/95	504929
			+1482.1000	+104.5500	09/19/95	505211
			+1426.4000	+99.9800	10/03/95	505472
			+1843.6000	+112.2600	10/17/95	505769
			+1312.4000	+87.8700	10/31/95	506096
			+1451.9000	+96.9430	11/14/95	506393
			+1325.5000	+93.7710	11/28/95	506660
			+1317.4000	+162.5600	12/12/95	506917
			+1016.5000	+71.3070	12/26/95	507172
		PB-212	+0.8775	+1.3413	03/07/95	501249
			+2.3776	+2.1165	05/16/95	502680
			+1.5212	+2.2970	06/27/95	503606
			+0.4901	+2.0110	07/11/95	503877
			+0.1633	+1.9295	10/03/95	505472
			+0.3555	+1.5327	10/17/95	505769
			+2.3071	+2.1013	10/31/95	506096
			+0.7934	+1.4736	12/26/95	507172
		PB-214	+0.4324	+3.4568	01/25/95	500446
			+50.1810	+6.8593	05/02/95	502386

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STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3119 NORTON FARM	4.1 MILES ESE	GAMMA SCAN (GELI)				
		PB-214	+6.4805	+2.9502	10/17/95	505769
		TL-208	+0.6805	+1.5705	02/21/95	500994
			+1.6803	+1.4684	07/11/95	503877
		SR 89				
			-0.0437	+0.9650	03/07/95	501249
			-0.7829	+1.3300	05/30/95	502994
			+0.3590	+1.1600	08/22/95	504667
			+1.6000	+1.1000	12/12/95	506917
		SR 90				
			+1.3600	+0.6360	03/07/95	501249
			+2.4500	+0.8930	05/30/95	502994
			+1.4500	+0.7550	08/22/95	504667
			+1.1900	+0.7230	12/12/95	506917

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PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3115 LAYMAN FARM	1.3 MILES SW	GAMMA SCAN (GELI)				
		BA-140	+0.2000	+2.0500	01/10/95	500201
			-0.8999	+2.3500	02/07/95	500735
			+0.9000	+2.0000	03/07/95	501246
			-2.9999	+2.4500	04/04/95	501799
			+0.8000	+2.1000	05/02/95	502383
			+2.2000	+2.5000	05/30/95	502991
			-0.0999	+2.1000	06/27/95	503603
			+3.9000	+2.4000	07/25/95	504125
			+0.6000	+2.0500	08/22/95	504664
			+1.1000	+2.0500	09/19/95	505207
			-1.4999	+2.1500	10/17/95	505766
			+2.9000	+2.1500	11/14/95	506390
			-1.8999	+2.0000	12/12/95	506914
		CS-137	+1.3000	+0.5500	01/10/95	500201
			+2.0000	+0.5000	02/07/95	500735
			+1.8000	+0.5500	03/07/95	501246
			+0.1000	+0.5500	04/04/95	501799
			+0.7000	+0.5500	05/02/95	502383
			+0.8000	+0.5500	05/30/95	502991
			+0.9000	+0.5500	06/27/95	503603
			+1.2000	+0.5000	07/25/95	504125
			+0.5000	+0.5500	08/22/95	504664
			+0.7000	+0.5000	09/19/95	505207
			+0.4000	+0.5500	10/17/95	505766
			+0.9000	+0.5500	11/14/95	506390
			+0.6000	+0.5000	12/12/95	506914
		I-131	-0.1999	+0.6500	01/10/95	500201
			+0.0000	+0.8500	02/07/95	500735
			+0.0000	+0.6500	03/07/95	501246
			+0.2000	+0.8500	04/04/95	501799
			+0.5000	+0.7000	05/02/95	502383
			-1.5999	+0.9000	05/30/95	502991
			+0.5000	+0.6500	06/27/95	503603
			-0.4999	+0.8000	07/25/95	504125
			-1.1999	+0.6500	08/22/95	504664
			-0.1999	+0.6500	09/19/95	505207
			+0.1000	+0.6500	10/17/95	505766
			+0.2000	+0.6500	11/14/95	506390

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ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN MILK QC-TN
PCI/L - 0.037 BQ/L
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3115 LAYMAN FARM	1.3 MILES SW	GAMMA SCAN (GELI)				
		I-131	+0.1000	+0.7000	12/12/95	506914
		K-40	+1520.0000	+22.5000	01/10/95	500201
			+1581.0000	+23.0000	02/07/95	500735
			+1465.0000	+22.0000	03/07/95	501246
			+1625.0000	+23.0000	04/04/95	501799
			+1568.0000	+23.0000	05/02/95	502383
			+1582.0000	+23.0000	05/30/95	502991
			+1600.0000	+23.0000	06/27/95	503603
			+1312.0000	+21.0000	07/25/95	504125
			+1678.0000	+23.5000	08/22/95	504664
			+1542.0000	+22.5000	09/19/95	505207
			+1555.0000	+22.5000	10/17/95	505766
			+1563.0000	+22.5000	11/14/95	506390
			+1295.0000	+21.0000	12/12/95	506914
		SR 89				
			+0.7000	+0.6000	03/07/95	501246
			+0.6000	+0.5000	05/30/95	502991
			-0.2499	+0.4300	08/22/95	504664
			+0.5000	+0.5500	12/12/95	506914
		SR 90				
			-0.2699	+0.0800	03/07/95	501246
			+1.8300	+0.1100	05/30/95	502991
			+1.1400	+0.1100	08/22/95	504664
			+0.8400	+0.0700	12/12/95	506914

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN POND SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3301 LV-1	LOW VOL WASTE POND	GAMMA SCAN (GELI)				
		AC-228	+0.7496	+0.0594	06/29/95	502410
		BE-7	+0.2706	+0.0423	06/29/95	502410
		BI-212	+0.6767	+0.0869	06/29/95	502410
		BI-214	+0.5033	+0.0268	06/29/95	502410
		CS-137	+0.0393	+0.0051	06/29/95	502410
		K-40	+8.7262	+0.4280	06/29/95	502410
		PB-212	+0.6883	+0.0823	06/29/95	502410
		PB-214	+0.5482	+0.0414	06/29/95	502410
		RA-224	+0.7167	+0.1299	06/29/95	502410
		TL-208	+0.2162	+0.0161	06/29/95	502410
3302 LV-2	LOW VOL WASTE POND	GAMMA SCAN (GELI)				
		AC-228	+1.4438	+0.1020	06/29/95	502411
		BE-7	+0.8229	+0.0914	06/29/95	502411
		BI-212	+1.5639	+0.1828	06/29/95	502411
		BI-214	+0.9515	+0.0568	06/29/95	502411
		CS-137	+0.1586	+0.0154	06/29/95	502411
		K-40	+17.3020	+0.8258	06/29/95	502411
		PB-212	+1.4499	+0.0659	06/29/95	502411
		PB-214	+1.0891	+0.0511	06/29/95	502411
		RA-224	+1.7370	+0.1787	06/29/95	502411
		TL-208	+0.4452	+0.0273	06/29/95	502411
3303 LV-3	LOW VOL WASTE POND	GAMMA SCAN (GELI)				
		AC-228	+1.6244	+0.1186	06/29/95	502413
		BE-7	+0.6518	+0.0966	06/29/95	502413
		BI-212	+2.0647	+0.2242	06/29/95	502413
		BI-214	+1.0372	+0.0669	06/29/95	502413
		CS-137	+0.2019	+0.0197	06/29/95	502413
		K-40	+17.1830	+1.1055	06/29/95	502413
		PB-212	+1.6004	+0.0877	06/29/95	502413
		PB-214	+1.0618	+0.0639	06/29/95	502413
		RA-224	+1.8879	+0.2395	06/29/95	502413
		TL-208	+0.5595	+0.0333	06/29/95	502413
3304 LV-4	LOW VOL WASTE POND	GAMMA SCAN (GELI)				
		AC-228	+0.9147	+0.0666	06/29/95	502414
		BE-7	+0.3082	+0.0542	06/29/95	502414

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ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN POND SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3304 LV-4	LOW VOL WASTE POND	GAMMA SCAN (GELI)				
		BI-212	+0.8213	+0.0870	06/29/95	502414
		BI-214	+0.7039	+0.0442	06/29/95	502414
		CS-137	+0.0440	+0.0051	06/29/95	502414
		K-40	+11.1330	+0.5262	06/29/95	502414
		PB-212	+0.8631	+0.0476	06/29/95	502414
		PB-214	+0.7114	+0.0457	06/29/95	502414
		RA-224	+1.0030	+0.1645	06/29/95	502414
		TL-208	+0.2724	+0.0162	06/29/95	502414
3305 YP-5	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+1.2179	+0.0858	06/29/95	502415
		BI-212	+1.2424	+0.1464	06/29/95	502415
		BI-214	+0.8200	+0.0489	06/29/95	502415
		CS-137	+0.2127	+0.0159	06/29/95	502415
		K-40	+14.2630	+0.6939	06/29/95	502415
		PB-212	+1.1150	+0.0549	06/29/95	502415
		PB-214	+0.9066	+0.0474	06/29/95	502415
		RA-224	+1.2259	+0.1624	06/29/95	502415
		TL-208	+0.4178	+0.0246	06/29/95	502415
3306 YP-6	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+0.9890	+0.0656	06/29/95	502416
		BE-7	+0.2270	+0.0412	06/29/95	502416
		BI-212	+0.9009	+0.1174	06/29/95	502416
		BI-214	+0.7430	+0.0426	06/29/95	502416
		CS-137	+0.1092	+0.0099	06/29/95	502416
		K-40	+12.2690	+0.5975	06/29/95	502416
		PB-212	+0.9764	+0.0628	06/29/95	502416
		PB-214	+0.8284	+0.0459	06/29/95	502416
		TL-208	+0.3128	+0.0185	06/29/95	502416
3307 YP-7	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+1.0122	+0.0634	06/29/95	502417
		BE-7	+0.1979	+0.0420	06/29/95	502417
		BI-212	+0.9495	+0.0939	06/29/95	502417
		BI-214	+0.7444	+0.0399	06/29/95	502417
		CS-137	+0.1796	+0.0115	06/29/95	502417
		K-40	+11.9830	+0.5820	06/29/95	502417

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN POND SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3307 YP-7	YARD POND	GAMMA SCAN (GELI)				
		PB-212	+0.9469	+0.0517	06/29/95	502417
		PB-214	+0.7650	+0.0428	06/29/95	502417
		RA-224	+0.9692	+0.2150	06/29/95	502417
		TL-208	+0.3258	+0.0194	06/29/95	502417
3308 YP-8	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+1.0390	+0.0794	06/29/95	502418
		BE-7	+0.2393	+0.0480	06/29/95	502418
		BI-212	+1.2152	+0.1778	06/29/95	502418
		BI-214	+0.7022	+0.0785	06/29/95	502418
		CS-137	+0.0992	+0.0106	06/29/95	502418
		K-40	+14.5810	+0.7240	06/29/95	502418
		PB-212	+0.9790	+0.0554	06/29/95	502418
		PB-214	+0.7960	+0.0500	06/29/95	502418
		TL-208	+0.3172	+0.0228	06/29/95	502418
3309 YP-9	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+1.0394	+0.0644	06/29/95	502419
		BE-7	+0.3132	+0.0480	06/29/95	502419
		BI-212	+1.1751	+0.1133	06/29/95	502419
		BI-214	+0.7699	+0.0412	06/29/95	502419
		CS-137	+0.0798	+0.0073	06/29/95	502419
		K-40	+14.4580	+0.7055	06/29/95	502419
		PB-212	+1.0746	+0.0517	06/29/95	502419
		PB-214	+0.8121	+0.0427	06/29/95	502419
		RA-224	+1.2237	+0.1412	06/29/95	502419
		TL-208	+0.3548	+0.0201	06/29/95	502419
3310 YP-10	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+0.9781	+0.0666	06/29/95	502420
		BE-7	+0.4604	+0.0561	06/29/95	502420
		BI-212	+1.0058	+0.0864	06/29/95	502420
		BI-214	+0.7581	+0.0468	06/29/95	502420
		CS-137	+0.0739	+0.0078	06/29/95	502420
		K-40	+12.7510	+0.6284	06/29/95	502420
		PB-212	+1.0084	+0.0512	06/29/95	502420
		PB-214	+0.8275	+0.0419	06/29/95	502420
		RA-224	+1.0558	+0.1501	06/29/95	502420

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN POND SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3310 YP-10	YARD POND	GAMMA SCAN (GELI)				
		TL-208	+0.3413	+0.0197	06/29/95	502420
3311 YP-11	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+1.1003	+0.0787	06/29/95	502421
		BE-7	+0.3897	+0.0956	06/29/95	502421
		BI-212	+1.0181	+0.1338	06/29/95	502421
		BI-214	+0.7524	+0.0471	06/29/95	502421
		CS-137	+0.2472	+0.0195	06/29/95	502421
		K-40	+13.0790	+0.7011	06/29/95	502421
		PB-212	+1.0617	+0.0583	06/29/95	502421
		PB-214	+0.7823	+0.0453	06/29/95	502421
		RA-224	+1.1328	+0.1894	06/29/95	502421
		TL-208	+0.3525	+0.0251	06/29/95	502421
3312 YP-12	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+1.2204	+0.0699	06/29/95	502422
		BE-7	+0.6475	+0.0613	06/29/95	502422
		BI-212	+1.3073	+0.1203	06/29/95	502422
		BI-214	+0.7929	+0.0453	06/29/95	502422
		CS-137	+0.2370	+0.0163	06/29/95	502422
		K-40	+14.6050	+0.6814	06/29/95	502422
		PB-212	+1.1301	+0.0517	06/29/95	502422
		PB-214	+0.9165	+0.0416	06/29/95	502422
		RA-224	+1.1965	+0.1508	06/29/95	502422
		TL-208	+0.4116	+0.0288	06/29/95	502422
3313 YP-13	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+1.6259	+0.1013	06/29/95	502424
		BE-7	+0.3391	+0.0672	06/29/95	502424
		BI-212	+1.8394	+0.1788	06/29/95	502424
		BI-214	+1.0232	+0.0543	06/29/95	502424
		K-40	+12.2340	+0.5921	06/29/95	502424
		PB-212	+1.5155	+0.0910	06/29/95	502424
		PB-214	+1.1111	+0.0541	06/29/95	502424
		TL-208	+0.5029	+0.0263	06/29/95	502424
3314 YP-14	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+1.8887	+0.1329	06/29/95	502425

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN POND SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3314 YP-14	YARD POND	GAMMA SCAN (GELI)				
		BE-7	+0.3393	+0.0683	06/29/95	502425
		BI-212	+1.9227	+0.1774	06/29/95	502425
		BI-214	+1.1330	+0.0605	06/29/95	502425
		K-40	+14.1300	+0.7503	06/29/95	502425
		PB-212	+1.7424	+0.0889	06/29/95	502425
		PB-214	+1.1847	+0.0575	06/29/95	502425
		RA-224	+1.8607	+0.2533	06/29/95	502425
		TL-208	+0.6062	+0.0304	06/29/95	502425
3315 YP-15	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+1.4095	+0.1151	06/29/95	502426
		BE-7	+0.3249	+0.0645	06/29/95	502426
		BI-212	+1.1857	+0.1724	06/29/95	502426
		BI-214	+0.8837	+0.0561	06/29/95	502426
		CS-137	+0.3844	+0.0290	06/29/95	502426
		K-40	+17.8580	+1.4869	06/29/95	502426
		PB-212	+1.2546	+0.0735	06/29/95	502426
		PB-214	+0.9909	+0.0618	06/29/95	502426
		TL-208	+0.4195	+0.0265	06/29/95	502426
3316 YP-16	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+1.3184	+0.1080	06/29/95	502427
		BI-212	+1.2093	+0.1245	06/29/95	502427
		BI-214	+0.7965	+0.0417	06/29/95	502427
		CS-137	+0.0480	+0.0074	06/29/95	502427
		K-40	+11.7940	+0.6180	06/29/95	502427
		PB-212	+1.3429	+0.0721	06/29/95	502427
		PB-214	+0.9011	+0.0522	06/29/95	502427
		RA-224	+1.3291	+0.2248	06/29/95	502427
		TL-208	+0.4199	+0.0231	06/29/95	502427
3317 YP-17	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+1.4211	+0.0787	06/29/95	502428
		BE-7	+0.1671	+0.0556	06/29/95	502428
		BI-212	+1.3837	+0.1251	06/29/95	502428
		BI-214	+0.8160	+0.0446	06/29/95	502428
		CS-137	+0.0588	+0.0084	06/29/95	502428
		K-40	+11.0430	+0.5447	06/29/95	502428

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN POND SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3317 YP-17	YARD POND	GAMMA SCAN (GELI)				
		PB-212	+1.3104	+0.0640	06/29/95	502428
		PB-214	+0.9075	+0.0538	06/29/95	502428
		RA-224	+1.3801	+0.1819	06/29/95	502428
		TL-208	+0.4312	+0.0228	06/29/95	502428
3318 YP-18	YARD POND	GAMMA SCAN (GELI)				
		AC-228	+1.0948	+0.0776	06/29/95	502429
		BI-212	+1.0785	+0.1603	06/29/95	502429
		BI-214	+0.6969	+0.0429	06/29/95	502429
		CS-137	+0.0437	+0.0080	06/29/95	502429
		K-40	+9.6503	+0.4981	06/29/95	502429
		PB-212	+0.9712	+0.0485	06/29/95	502429
		PB-214	+0.7556	+0.0519	06/29/95	502429
		RA-224	+0.9480	+0.1485	06/29/95	502429
		TL-208	+0.3250	+0.0217	06/29/95	502429

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN POTATOES
PCI/KG - 0.037 BQ/KG (WET WT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GAMMA SCAN (GELI) K-40	+3379.1000	+247.2000	06/27/95	502295
3209 OWEN HENDERSON FARM	4.8 MILES WSW	GAMMA SCAN (GELI) K-40	+3818.3000	+272.7100	07/05/95	502363

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN POTATOES QC-TN
PCI/KG - 0.037 BQ/KG (WET WT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3209 OWEN HENDERSON FARM 4.8 MILES WSW	GAMMA SCAN (GELI) K-40	+5207.0000	+82.5000	07/05/95	504031

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ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2155 TRM 496.50		GAMMA SCAN (GELI)				
		AC-228	+1.2575	+0.0865	04/26/95	502322
			+1.4925	+0.0954	10/25/95	506042
		BE-7	+0.2797	+0.0660	04/26/95	502322
			+1.0249	+0.1163	10/25/95	506042
		BI-212	+1.1585	+0.1817	04/26/95	502322
			+1.5520	+0.1568	10/25/95	506042
		BI-214	+0.8248	+0.0494	04/26/95	502322
			+1.0386	+0.0532	10/25/95	506042
		CO-60	+0.0190	+0.0053	10/25/95	506042
		CS-137	+0.7651	+0.0527	04/26/95	502322
			+0.8084	+0.0403	10/25/95	506042
		K-40	+13.4640	+0.7108	04/26/95	502322
			+13.3820	+0.6487	10/25/95	506042
		PB-212	+1.1619	+0.0630	04/26/95	502322
			+1.3405	+0.0659	10/25/95	506042
		PB-214	+0.8457	+0.0429	04/26/95	502322
			+1.1401	+0.0491	10/25/95	506042
		RA-224	+1.3127	+0.1883	10/25/95	506042
		RA-226	+0.8248	+0.0494	04/26/95	502322
			+1.0386	+0.0532	10/25/95	506042
		TL-208	+0.3941	+0.0232	04/26/95	502322
			+0.4418	+0.0253	10/25/95	506042
3140 TRM 532.1	4.3 MILES UPSTREAM	GAMMA SCAN (GELI)				
		AC-228	+1.5019	+0.0945	04/20/95	502393
			+1.3839	+0.0928	10/26/95	506097
		BE-7	+1.0820	+0.1521	04/20/95	502393
			+0.4181	+0.0853	10/26/95	506097
		BI-212	+1.5607	+0.1710	04/20/95	502393
			+1.4728	+0.1722	10/26/95	506097
		BI-214	+0.9525	+0.0683	04/20/95	502393
			+1.0021	+0.0526	10/26/95	506097
		CO-60	+0.0307	+0.0075	04/20/95	502393
		CS-137	+1.6812	+0.0831	04/20/95	502393
			+1.6027	+0.0721	10/26/95	506097
		K-40	+16.1350	+0.8660	04/20/95	502393
			+13.7590	+0.6626	10/26/95	506097
		PB-212	+1.3397	+0.0594	04/20/95	502393

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RADIOACTIVITY IN SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3140 TRM 532.1	4.3 MILES UPSTREAM	GAMMA SCAN (GELI)				
		PB-212	+1.4154	+0.0818	10/26/95	506097
		PB-214	+1.0558	+0.0628	04/20/95	502393
			+1.0948	+0.0695	10/26/95	506097
		RA-224	+1.5082	+0.1768	04/20/95	502393
		RA-226	+0.9525	+0.0683	04/20/95	502393
			+1.0021	+0.0526	10/26/95	506097
		TL-208	+0.4606	+0.0273	04/20/95	502393
			+0.4961	+0.0283	10/26/95	506097
3141 TRM 527.4	0.4 MILES DOWNSTREA	GAMMA SCAN (GELI)				
		AC-228	+1.8458	+0.1146	04/27/95	502394
			+0.9050	+0.0734	10/26/95	506098
		BE-7	+0.1544	+0.0473	04/27/95	502394
		BI-212	+1.8274	+0.2030	04/27/95	502394
			+1.0055	+0.1141	10/26/95	506098
		BI-214	+1.2078	+0.0730	04/27/95	502394
			+0.6900	+0.0416	10/26/95	506098
		CS-137	+0.0490	+0.0077	04/27/95	502394
			+0.0412	+0.0053	10/26/95	506098
		K-40	+13.2570	+0.6291	04/27/95	502394
			+13.7270	+0.6589	10/26/95	506098
		PB-212	+1.6749	+0.2347	04/27/95	502394
			+1.0058	+0.0485	10/26/95	506098
		PB-214	+1.3485	+0.0566	04/27/95	502394
			+0.7793	+0.0357	10/26/95	506098
		RA-224	+1.8764	+0.3270	04/27/95	502394
			+1.1828	+0.1588	10/26/95	506098
		RA-226	+1.2078	+0.0730	04/27/95	502394
			+0.6900	+0.0416	10/26/95	506098
		TL-208	+0.5675	+0.0283	04/27/95	502394
			+0.3061	+0.0179	10/26/95	506098
3142 TRM 518.0		GAMMA SCAN (GELI)				
		AC-228	+1.3633	+0.0777	04/24/95	502395
			+1.0939	+0.0786	10/26/95	506099
		BE-7	+0.3328	+0.0677	10/26/95	506099
		BI-212	+1.2326	+0.1199	04/24/95	502395
			+1.2657	+0.1193	10/26/95	506099

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PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3142 TRM 518.0	GAMMA SCAN (GELI)				
	BI-214	+0.9031	+0.0532	04/24/95	502395
		+0.8671	+0.0577	10/26/95	506099
	CS-137	+0.0426	+0.0092	04/24/95	502395
		+0.2511	+0.0181	10/26/95	506099
	K-40	+14.5580	+0.6344	04/24/95	502395
		+12.1220	+0.5772	10/26/95	506099
	PB-212	+1.2394	+0.0622	04/24/95	502395
		+1.1478	+0.0502	10/26/95	506099
	PB-214	+1.0424	+0.0575	04/24/95	502395
		+0.8956	+0.0476	10/26/95	506099
	RA-224	+1.3286	+0.1302	10/26/95	506099
	RA-226	+0.9031	+0.0532	04/24/95	502395
		+0.8671	+0.0577	10/26/95	506099
	TL-208	+0.4368	+0.0253	04/24/95	502395
		+0.3521	+0.0196	10/26/95	506099

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SHORELINE SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3191 WATTS BAR RESORT	TRM 530	GAMMA SCAN (GELI)				
		AC-228	+0.8335	+0.0665	04/19/95	502399
			+1.0531	+0.0946	11/29/95	506102
		BI-212	+0.7110	+0.0813	04/19/95	502399
			+1.1466	+0.1322	11/29/95	506102
		BI-214	+0.5397	+0.0294	04/19/95	502399
			+0.7795	+0.0410	11/29/95	506102
		CS-137	+0.0387	+0.0045	04/19/95	502399
		K-40	+1.0887	+0.1151	04/19/95	502399
			+4.5040	+0.3108	11/29/95	506102
		PB-212	+0.7575	+0.0457	04/19/95	502399
			+1.1544	+0.0617	11/29/95	506102
		PB-214	+0.6253	+0.0368	04/19/95	502399
			+0.8388	+0.0496	11/29/95	506102
		RA-226	+0.5397	+0.0294	04/19/95	502399
			+0.7795	+0.0410	11/29/95	506102
		TL-208	+0.2451	+0.0150	04/19/95	502399
			+0.3954	+0.0272	11/29/95	506102
3193 COTTON PORT MARINA	TRM 513	GAMMA SCAN (GELI)				
		AC-228	+0.6048	+0.0447	04/19/95	502400
			+1.3140	+0.0825	11/29/95	506103
		BE-7	+0.1754	+0.0457	11/29/95	506103
		BI-212	+0.6936	+0.1117	04/19/95	502400
			+1.3311	+0.1108	11/29/95	506103
		BI-214	+0.6127	+0.0383	04/19/95	502400
			+0.7237	+0.0407	11/29/95	506103
		CS-137	+0.0474	+0.0084	04/19/95	502400
			+0.1777	+0.0134	11/29/95	506103
		K-40	+2.7728	+0.2355	04/19/95	502400
			+20.0050	+0.9561	11/29/95	506103
		PB-212	+0.5588	+0.0316	04/19/95	502400
			+1.3304	+0.0625	11/29/95	506103
		PB-214	+0.6999	+0.0391	04/19/95	502400
			+0.7902	+0.0432	11/29/95	506103
		RA-224	+0.6800	+0.0999	04/19/95	502400
			+1.3953	+0.1698	11/29/95	506103
		RA-226	+0.6127	+0.0383	04/19/95	502400
			+0.7237	+0.0407	11/29/95	506103

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SHORELINE SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3193 COTTON PORT MARINA TRM 513	GAMMA SCAN (GELI)				
	TL-208	+0.1905	+0.0155	04/19/95	502400
		+0.4019	+0.0232	11/29/95	506103

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SHORELINE SEDIMENT QC-TN
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3193 COTTON PORT MARINA TRM 513	GAMMA SCAN (GELI)				
	AC-228	+1.4690	+0.0330	04/19/95	502401
		+1.5340	+0.0320	11/29/95	506104
	BI-212	+0.9600	+0.0550	04/19/95	502401
		+1.1200	+0.0950	11/29/95	506104
	BI-214	+1.0070	+0.0160	04/19/95	502401
		+0.9760	+0.0170	11/29/95	506104
	CS-137	+0.3200	+0.0085	04/19/95	502401
		+0.1870	+0.0060	11/29/95	506104
	K-40	+17.0300	+0.1700	04/19/95	502401
		+20.6200	+0.1800	11/29/95	506104
	PB-212	+1.4000	+0.0120	04/19/95	502401
		+1.5340	+0.0115	11/29/95	506104
	PB-214	+1.1610	+0.0175	04/19/95	502401
		+1.0850	+0.0150	11/29/95	506104
	TL-208	+0.4350	+0.0085	04/19/95	502401
		+0.4930	+0.0090	11/29/95	506104

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SMALLMOUTH BUFFALO FLESH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2160 CHICKAMAUGA RES	TRM 471-530	GAMMA SCAN (GELI)				
		BI-214	+0.0563	+0.0108	10/06/95	506047
		CS-137	+0.0112	+0.0033	10/06/95	506047
		K-40	+15.5590	+0.9384	04/28/95	502325
			+6.8877	+0.4370	10/06/95	506047
		PB-214	+0.0438	+0.0136	10/06/95	506047
2161 WATTS BAR RES	TRM 530-602	GAMMA SCAN (GELI)				
		BI-214	+0.0441	+0.0103	10/12/95	506051
		CS-137	+0.0233	+0.0061	04/28/95	502330
			+0.0196	+0.0058	10/12/95	506051
		K-40	+8.9636	+0.5796	04/28/95	502330
			+9.6441	+0.5505	10/12/95	506051
		PB-214	+0.0018	+0.0078	04/28/95	502330
			+0.0401	+0.0112	10/12/95	506051

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ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SMALLMOUTH BUFFALO WHOLE
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2160 CHICKAMAUGA RES	TRM 471-530	GAMMA SCAN (GELI)				
		AC-228	+0.1295	+0.0236	04/28/95	502328
		BI-212	+0.1449	+0.0416	04/28/95	502328
		BI-214	+0.0404	+0.0120	04/28/95	502328
			+0.0351	+0.0237	10/09/95	506049
		CS-137	+0.0108	+0.0037	10/09/95	506049
		K-40	+6.0558	+0.3526	04/28/95	502328
			+5.5017	+0.3360	10/09/95	506049
		PB-212	+0.0828	+0.0100	04/28/95	502328
		PB-214	+0.0576	+0.0090	04/28/95	502328
			+0.0180	+0.0070	10/09/95	506049
		TL-208	+0.0334	+0.0103	04/28/95	502328
2161 WATTS BAR RES	TRM 530-602	GAMMA SCAN (GELI)				
		BI-214	+0.0585	+0.0110	10/17/95	506053
		CS-137	+0.0163	+0.0044	10/17/95	506053
		K-40	+6.3600	+0.4063	04/28/95	502332
			+6.8937	+0.4098	10/17/95	506053
		PB-212	+0.0176	+0.0094	04/28/95	502332
			+0.0156	+0.0115	10/17/95	506053
		PB-214	+0.0311	+0.0108	10/17/95	506053

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WATTS BAR NUCLEAR PLANT
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PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GAMMA SCAN (GELI)				
		AC-228	+0.7406	+0.0522	05/16/95	502624
			+0.7672	+0.0588	06/13/95	503201
		BE-7	+0.2290	+0.0443	05/16/95	502624
			+0.4109	+0.0532	06/13/95	503201
		BI-212	+0.7688	+0.0881	05/16/95	502624
			+0.8839	+0.0982	06/13/95	503201
		BI-214	+0.7098	+0.0401	05/16/95	502624
			+0.7285	+0.0356	06/13/95	503201
		CS-137	+0.1422	+0.0112	05/16/95	502624
			+0.1565	+0.0124	06/13/95	503201
		K-40	+4.0183	+0.2573	05/16/95	502624
			+4.0765	+0.2401	06/13/95	503201
		PB-212	+0.7778	+0.0450	05/16/95	502624
			+0.8151	+0.0490	06/13/95	503201
		PB-214	+0.7763	+0.0427	05/16/95	502624
			+0.8125	+0.0437	06/13/95	503201
		RA-224	+0.8469	+0.1248	05/16/95	502624
			+0.8283	+0.1637	06/13/95	503201
		RA-226	+0.7098	+0.0401	05/16/95	502624
			+0.7285	+0.0356	06/13/95	503201
		TL-208	+0.2535	+0.0144	05/16/95	502624
			+0.2628	+0.0147	06/13/95	503201
		SR 89				
			+0.6600	+0.3230	05/16/95	502624
			+0.1520	+0.3470	06/13/95	503201
		SR 90				
			-0.2419	+0.1380	05/16/95	502624
			-0.0140	+0.1230	06/13/95	503201
3101 LM1 ENV DATA STA	0.5 MILES SSW	GAMMA SCAN (GELI)				
		AC-228	+1.3824	+0.0930	06/13/95	503234
		BI-212	+1.3503	+0.1586	06/13/95	503234
		BI-214	+0.9205	+0.0579	06/13/95	503234
		CS-137	+0.1120	+0.0133	06/13/95	503234
		K-40	+13.5420	+0.8337	06/13/95	503234
		PB-212	+1.2006	+0.0545	06/13/95	503234

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01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3101 LM1 ENV DATA STA	0.5 MILES SSW	GAMMA SCAN (GELI)				
		PB-214	+0.9615	+0.0641	06/13/95	503234
		RA-224	+1.0670	+0.1283	06/13/95	503234
		RA-226	+0.9205	+0.0579	06/13/95	503234
		TL-208	+0.4101	+0.0266	06/13/95	503234
		SR 89				
			+0.0713	+0.3680	06/13/95	503234
		SR 90				
			+0.0593	+0.1310	06/13/95	503234
3102 LM2 N. WBSP GATE	0.5 MILES N	GAMMA SCAN (GELI)				
		AC-228	+1.3423	+0.0891	06/13/95	503238
		BE-7	+0.2147	+0.0503	06/13/95	503238
		BI-212	+1.4888	+0.1398	06/13/95	503238
		BI-214	+0.8650	+0.0471	06/13/95	503238
		CS-137	+0.7274	+0.0344	06/13/95	503238
		K-40	+21.0830	+0.9216	06/13/95	503238
		PB-212	+1.2624	+0.0606	06/13/95	503238
		PB-214	+0.9389	+0.0450	06/13/95	503238
		RA-224	+1.3176	+0.1856	06/13/95	503238
		RA-226	+0.8650	+0.0471	06/13/95	503238
		TL-208	+0.4408	+0.0232	06/13/95	503238
		SR 89				
			+0.2080	+0.3710	06/13/95	503238
		SR 90				
			+0.0580	+0.1320	06/13/95	503238
3106 PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)				
		AC-228	+0.8399	+0.0557	06/13/95	503242
		BI-212	+0.9201	+0.1350	06/13/95	503242
		BI-214	+0.6095	+0.0347	06/13/95	503242
		CS-137	+1.1705	+0.2123	06/13/95	503242
		K-40	+8.9924	+0.5570	06/13/95	503242
		PB-212	+0.8338	+0.0397	06/13/95	503242
		PB-214	+0.6738	+0.0387	06/13/95	503242

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PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3106 PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)				
		RA-224	+0.8789	+0.1098	06/13/95	503242
		RA-226	+0.6095	+0.0347	06/13/95	503242
		TL-208	+0.2797	+0.0188	06/13/95	503242
		SR 89				
			+0.4340	+0.3840	06/13/95	503242
		SR 90				
			-0.0486	+0.1370	06/13/95	503242
3107 PM3 CEDINE BIBLE	CAMP 11.5 M. NNE	GAMMA SCAN (GELI)				
		AC-228	+0.9285	+0.0676	06/13/95	503245
		BI-212	+1.0021	+0.1078	06/13/95	503245
		BI-214	+0.8683	+0.0444	06/13/95	503245
		CS-137	+0.1962	+0.0156	06/13/95	503245
		K-40	+4.5106	+0.3035	06/13/95	503245
		PB-212	+0.9310	+0.0550	06/13/95	503245
		PB-214	+0.8935	+0.0415	06/13/95	503245
		RA-224	+1.0347	+0.1740	06/13/95	503245
		RA-226	+0.8683	+0.0444	06/13/95	503245
		TL-208	+0.3275	+0.0182	06/13/95	503245
		SR 89				
			+0.2340	+0.3540	06/13/95	503245
		SR 90				
			+0.0420	+0.1280	06/13/95	503245
3108 PM-4 TEN MILE	7.8 M. NE/ENE	GAMMA SCAN (GELI)				
		AC-228	+1.1331	+0.0739	06/14/95	503249
		BE-7	+0.1208	+0.0336	06/14/95	503249
		BI-212	+1.1198	+0.1182	06/14/95	503249
		BI-214	+0.7576	+0.0398	06/14/95	503249
		CS-137	+0.0484	+0.0070	06/14/95	503249
		K-40	+11.5800	+0.5774	06/14/95	503249
		PB-212	+1.0818	+0.0646	06/14/95	503249
		PB-214	+0.8160	+0.0439	06/14/95	503249
		RA-226	+0.7576	+0.0398	06/14/95	503249

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SOIL
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3108 PM-4 TEN MILE	7.8 M. NE/ENE	GAMMA SCAN (GELI)				
		TL-208	+0.3745	+0.0215	06/14/95	503249
		SR 89				
			+0.2570	+0.3160	06/14/95	503249
		SR 90				
			-0.0655	+0.1140	06/14/95	503249
3109 PM5 DECATUR	6.25 MILES S	GAMMA SCAN (GELI)				
		AC-228	+1.2181	+0.0806	06/14/95	503252
		BI-212	+1.2148	+0.1219	06/14/95	503252
		BI-214	+0.8642	+0.0480	06/14/95	503252
		CS-137	+1.0435	+0.0453	06/14/95	503252
		K-40	+6.5415	+0.3676	06/14/95	503252
		PB-212	+1.1672	+0.0574	06/14/95	503252
		PB-214	+0.9280	+0.0467	06/14/95	503252
		RA-224	+1.1234	+0.1918	06/14/95	503252
		RA-226	+0.8642	+0.0480	06/14/95	503252
		TL-208	+0.4037	+0.0226	06/14/95	503252
		SR 89				
			+0.2990	+0.3580	06/14/95	503252
		SR 90				
			-0.0119	+0.1290	06/14/95	503252
3203 LM-3 WB	2.1 MILES NNE	GAMMA SCAN (GELI)				
		AC-228	+0.9770	+0.0751	06/13/95	503258
		BI-212	+1.0200	+0.1021	06/13/95	503258
		BI-214	+0.9081	+0.0461	06/13/95	503258
		CS-137	+0.5443	+0.0303	06/13/95	503258
		K-40	+3.5602	+0.2656	06/13/95	503258
		PB-212	+0.9217	+0.0533	06/13/95	503258
		PB-214	+1.0301	+0.0517	06/13/95	503258
		RA-226	+0.9081	+0.0461	06/13/95	503258
		TL-208	+0.3052	+0.0167	06/13/95	503258
		SR 89				
			-0.2049	+0.4100	06/13/95	503258

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ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SOIL
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3203 LM-3 WB	2.1 MILES NNE	SR 90	+0.1760	+0.1500	06/13/95	503258
3204 LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)				
		AC-228	+1.3602	+0.0889	06/13/95	503261
		BI-212	+1.2871	+0.1421	06/13/95	503261
		BI-214	+0.8119	+0.0461	06/13/95	503261
		CS-137	+0.0601	+0.0081	06/13/95	503261
		K-40	+26.7700	+1.1725	06/13/95	503261
		PB-212	+1.2032	+0.0550	06/13/95	503261
		PB-214	+0.9365	+0.0375	06/13/95	503261
		RA-224	+1.1667	+0.1409	06/13/95	503261
		RA-226	+0.8119	+0.0461	06/13/95	503261
		TL-208	+0.4034	+0.0212	06/13/95	503261
		SR 89	+0.1350	+0.4490	06/13/95	503261
		SR 90	+0.2080	+0.1640	06/13/95	503261
3205 RM-3 WB	15 MILES NNW	GAMMA SCAN (GELI)				
		AC-228	+0.5884	+0.0397	06/13/95	503264
		BI-212	+0.5668	+0.0660	06/13/95	503264
		BI-214	+0.5227	+0.0319	06/13/95	503264
		CS-137	+0.5751	+0.0287	06/13/95	503264
		K-40	+4.5159	+0.2803	06/13/95	503264
		PB-212	+0.5627	+0.0326	06/13/95	503264
		PB-214	+0.5906	+0.0333	06/13/95	503264
		RA-226	+0.5227	+0.0319	06/13/95	503264
		TL-208	+0.1821	+0.0125	06/13/95	503264
		SR 89	+0.0619	+0.4820	06/13/95	503264
		SR 90	+0.1850	+0.1730	06/13/95	503264

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN SOIL QC-TN
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GAMMA SCAN (GELI)				
		AC-228	+1.0670	+0.0275	05/16/95	502625
		BI-214	+0.9150	+0.0150	05/16/95	502625
		CS-137	+0.2600	+0.0075	05/16/95	502625
		K-40	+6.2500	+0.1200	05/16/95	502625
		PB-212	+1.0890	+0.0110	05/16/95	502625
		PB-214	+1.0700	+0.0145	05/16/95	502625
		TL-208	+0.3450	+0.0075	05/16/95	502625
		SR 89	+0.1300	+0.4050	05/16/95	502625
		SR 90	-0.0979	+0.0250	05/16/95	502625

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ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN TOMATOES
PCI/KG - 0.037 BQ/KG (WET WT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2116 RM-2 DAYTON TN	17.75 MILES NNE	GAMMA SCAN (GELI)				
		K-40	+2042.1000	+177.4000	08/22/95	502297
3116 MULLINS FARM	3.7 M. ESE	GAMMA SCAN (GELI)				
		K-40	+2867.1000	+223.7300	08/23/95	502366
		PB-212	+1.4908	+5.7497	08/23/95	502366

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN WET VEGETATION
PCI/KG - 0.037 BQ/KG (WET WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2122 SHADDON FARM	12.0 MILES NNE	IODINE-131				
			-1.0799	+2.3900	01/11/95	500164
			-2.9999	+2.9500	02/08/95	500699
			-0.5799	+2.9900	03/08/95	501208
			+1.5200	+2.6300	04/05/95	501762
			-2.3599	+2.3200	05/03/95	502318
			+0.3300	+1.2200	05/31/95	502953
			-0.7799	+2.3400	06/28/95	503566
			+0.3700	+1.4000	07/26/95	504089
			+0.6700	+2.2200	08/23/95	504626
			+0.9000	+3.2600	09/20/95	505170
			+1.3000	+1.8400	10/18/95	505729
			+1.6200	+3.2800	11/15/95	506353
			-0.8199	+2.4500	12/13/95	506875
		GAMMA SCAN (GELI)				
		AC-228	+1.0695	+9.0584	05/31/95	502953
		BE-7	+1017.4000	+70.1360	01/11/95	500164
			+1617.5000	+116.4300	02/08/95	500699
			+749.5100	+53.4010	03/08/95	501208
			+191.2600	+26.2560	04/05/95	501762
			+278.6700	+29.3590	05/03/95	502318
			+267.7700	+27.8340	05/31/95	502953
			+789.3900	+66.3710	06/28/95	503566
			+337.0100	+37.9630	07/26/95	504089
			+332.6100	+40.7690	08/23/95	504626
			+300.5200	+29.4660	09/20/95	505170
			+739.4100	+50.5830	10/18/95	505729
			+1731.1000	+158.7100	11/15/95	506353
			+2334.7000	+139.6100	12/13/95	506875
		BI-214	+28.2920	+5.5303	01/11/95	500164
			+10.3540	+5.3389	02/08/95	500699
			+6.3039	+6.5652	04/05/95	501762
			+9.8224	+4.7950	05/31/95	502953
			+23.0210	+8.2787	07/26/95	504089
			+4.7359	+4.1057	09/20/95	505170
			+18.7790	+5.1596	10/18/95	505729
			+32.4410	+7.6308	11/15/95	506353
			+39.0430	+11.2030	12/13/95	506875

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ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN WET VEGETATION
PCI/KG - 0.037 BQ/KG (WET WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2122 SHADDON FARM	12.0 MILES NNE	GAMMA SCAN (GELI)				
		K-40	+4335.3000	+289.4300	01/11/95	500164
			+7455.3000	+437.5100	02/08/95	500699
			+4934.1000	+283.7300	03/08/95	501208
			+7490.5000	+440.8400	04/05/95	501762
			+5386.1000	+297.4000	05/03/95	502318
			+6145.3000	+338.6200	05/31/95	502953
			+5434.0000	+306.3500	06/28/95	503566
			+4652.2000	+373.6100	07/26/95	504089
			+4909.7000	+286.0700	08/23/95	504626
			+4696.9000	+304.6300	09/20/95	505170
			+5049.4000	+259.0300	10/18/95	505729
			+5938.0000	+323.9500	11/15/95	506353
			+7097.2000	+412.7900	12/13/95	506875
		PB-212	+4.6900	+3.0433	01/11/95	500164
			+10.9000	+5.3857	02/08/95	500699
			+7.2894	+3.3051	04/05/95	501762
			+2.2581	+2.8428	05/31/95	502953
			+8.2615	+2.7955	09/20/95	505170
			+0.1265	+3.3680	11/15/95	506353
			+9.0923	+6.0914	12/13/95	506875
		PB-214	+19.7450	+3.0585	01/11/95	500164
			+2.2908	+3.4444	05/31/95	502953
			+35.6850	+8.4515	07/26/95	504089
			+9.1890	+4.6978	09/20/95	505170
			+10.5210	+2.9259	10/18/95	505729
			+22.5170	+6.2850	11/15/95	506353
			+35.4740	+8.9199	12/13/95	506875
		TL-208	+4.9766	+2.6701	04/05/95	501762
			+2.8000	+2.0854	05/31/95	502953
			+1.8389	+1.8259	09/20/95	505170
		SR 89				
			+1.1300	+3.8700	03/08/95	501208
			+4.7300	+8.0900	05/31/95	502953
			+5.4200	+6.2700	08/23/95	504626
			-10.7699	+10.6700	11/15/95	506353
		SR 90				
			+5.4700	+2.2500	03/08/95	501208

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ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN WET VEGETATION
PCI/KG - 0.037 BQ/KG (WET WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
2122 SHADDON FARM	12.0 MILES NNE	SR 90				
			+20.6900	+4.6700	05/31/95	502953
			+8.3400	+2.5400	08/23/95	504626
			+24.3200	+4.5200	11/15/95	506353
3115 LAYMAN FARM	1.3 MILES SW	IODINE-131				
			+2.2200	+2.0900	01/10/95	500202
			+2.0000	+1.8900	02/07/95	500736
			+1.2300	+2.0500	03/07/95	501247
			+0.2400	+1.5400	04/04/95	501800
			+1.0000	+1.4200	05/02/95	502384
			-1.5399	+2.1800	05/30/95	502992
			-0.5099	+2.6000	06/27/95	503604
			+1.6900	+2.9300	07/25/95	504126
			-0.7599	+1.7800	08/22/95	504665
			+0.2700	+1.7300	09/19/95	505208
			-0.6899	+2.1800	10/17/95	505767
			-0.7299	+1.7200	11/14/95	506391
			+2.1800	+2.2700	12/12/95	506915
		GAMMA SCAN (GELI)				
		AC-228	+21.9030	+10.9740	05/02/95	502384
		BE-7	+2041.8000	+145.5600	01/10/95	500202
			+3059.3000	+185.4100	02/07/95	500736
			+1369.3000	+92.0240	03/07/95	501247
			+176.3900	+27.5800	04/04/95	501800
			+363.4100	+43.9600	05/02/95	502384
			+870.0000	+68.0230	05/30/95	502992
			+710.6400	+67.8720	06/27/95	503604
			+943.3600	+75.9340	07/25/95	504126
			+663.5500	+56.2900	08/22/95	504665
			+692.0901	+57.2920	09/19/95	505208
			+1013.3000	+68.6450	10/17/95	505767
			+1449.1000	+98.9700	11/14/95	506391
			+2372.3000	+155.7400	12/12/95	506915
		BI-214	+24.7560	+9.3176	01/10/95	500202
			+14.2010	+5.2882	05/30/95	502992
			+34.4170	+8.7796	07/25/95	504126
			+13.8170	+5.6561	08/22/95	504665

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WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN WET VEGETATION
PCI/KG - 0.037 BQ/KG (WET WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION		ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3115 LAYMAN FARM	1.3 MILES SW	GAMMA SCAN (GELI)				
		BI-214	+8.2138	+4.6689	09/19/95	505208
			+42.5810	+11.4530	10/17/95	505767
			+33.1310	+8.0068	11/14/95	506391
			+109.5700	+16.8180	12/12/95	506915
		K-40	+6714.8000	+442.3000	01/10/95	500202
			+6061.7000	+362.7900	02/07/95	500736
			+5479.3000	+317.0800	03/07/95	501247
			+7382.7000	+548.7000	04/04/95	501800
			+5201.8000	+340.6500	05/02/95	502384
			+6166.4000	+321.5400	05/30/95	502992
			+7118.5000	+379.4500	06/27/95	503604
			+7441.6000	+407.5200	07/25/95	504126
			+5528.3000	+1330.3000	08/22/95	504665
			+6192.6000	+356.8300	09/19/95	505208
			+5682.8000	+297.0600	10/17/95	505767
			+5644.4000	+329.6500	11/14/95	506391
			+7263.1000	+463.0300	12/12/95	506915
		PB-212	+0.6644	+7.0479	02/07/95	500736
			+5.5396	+3.2370	08/22/95	504665
		PB-214	+39.1820	+14.8740	01/10/95	500202
			+53.1670	+10.4700	07/25/95	504126
			+12.8040	+5.0166	08/22/95	504665
			+27.9480	+7.8916	10/17/95	505767
			+35.0870	+6.8080	11/14/95	506391
			+111.2200	+16.1670	12/12/95	506915
		SR 89				
			-0.6369	+6.3300	03/07/95	501247
			+8.5800	+6.8500	05/30/95	502992
			+3.6300	+8.1900	08/22/95	504665
			+2.6500	+9.5200	11/14/95	506391
		SR 90				
			+7.1100	+3.5400	03/07/95	501247
			+7.1800	+3.4000	05/30/95	502992
			+10.8500	+3.2900	08/22/95	504665
			+9.7700	+3.3200	11/14/95	506391
3209 OWEN HENDERSON FARM	4.8 MILES WSW	IODINE-131				
			+0.2700	+1.7100	01/10/95	500218

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WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN WET VEGETATION
PCI/KG - 0.037 BQ/KG (WET WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3209 OWEN HENDERSON FARM 4.8 MILES WSW	IODINE-131				
		+2.1800	+2.2700	02/07/95	500752
		+1.3300	+2.2100	03/07/95	501263
		+1.2200	+1.7300	04/04/95	501816
		+1.2800	+2.1400	05/02/95	502409
		-0.4299	+1.3600	05/30/95	503007
		-0.8399	+2.5100	06/27/95	503619
		-0.5699	+1.3300	07/25/95	504142
		+1.2900	+2.1600	08/22/95	504680
		+1.1400	+1.9100	09/19/95	505224
		+0.4500	+2.8600	10/17/95	505782
		+1.5500	+2.5900	11/14/95	506406
		+1.7700	+3.5900	12/12/95	506930
	GAMMA SCAN (GELI)				
	AC-228	+36.7360	+19.1920	12/12/95	506930
	BE-7	+810.7700	+65.1190	01/10/95	500218
		+1469.0000	+118.6800	02/07/95	500752
		+487.9400	+28.9630	03/07/95	501263
		+267.0400	+50.6950	04/04/95	501816
		+491.1300	+47.9070	05/02/95	502409
		+1536.3000	+164.1000	05/30/95	503007
		+1267.7000	+91.4010	06/27/95	503619
		+1600.2000	+80.5430	07/25/95	504142
		+273.6300	+45.4780	08/22/95	504680
		+1104.1000	+89.6740	09/19/95	505224
		+2522.4000	+134.9600	10/17/95	505782
		+2387.5000	+148.1000	11/14/95	506406
		+2031.3000	+144.3400	12/12/95	506930
	BI-214	+8.8349	+7.3193	01/10/95	500218
		+4.9762	+4.4115	03/07/95	501263
		+24.3390	+11.4800	05/30/95	503007
		+29.4100	+11.8730	07/25/95	504142
		+16.0690	+7.3085	08/22/95	504680
		+54.9630	+13.1660	09/19/95	505224
		+78.3050	+15.6860	10/17/95	505782
		+50.5060	+13.9850	11/14/95	506406
		+39.3990	+13.7290	12/12/95	506930
	CS-137	+10.4440	+2.6814	06/27/95	503619

TENNESSEE VALLEY AUTHORITY
ENVIRONMENTAL RADIOLOGICAL MONITORING AND INSTRUMENTATION
WESTERN AREA RADIOLOGICAL LABORATORY

WATTS BAR NUCLEAR PLANT
RADIOACTIVITY IN WET VEGETATION
PCI/KG - 0.037 BQ/KG (WET WEIGHT)
01/01/95 TO 12/31/95

STATION CODE/LOCATION/DESCRIPTION	ANALYSIS (NUCLIDE)	ACTIVITY	ERROR TERM	DATE COLLECTED	LAB NO
3209 OWEN HENDERSON FARM 4.8 MILES WSW	GAMMA SCAN (GELI)				
	K-40	+5341.1000	+312.5900	01/10/95	500218
		+4847.9000	+316.4300	02/07/95	500752
		+5187.0000	+298.1900	03/07/95	501263
		+6163.7000	+372.6600	04/04/95	501816
		+4821.0000	+288.7700	05/02/95	502409
		+6178.6000	+377.5000	05/30/95	503007
		+8111.3000	+498.2300	06/27/95	503619
		+6997.9000	+424.0200	07/25/95	504142
		+6632.9000	+396.5300	08/22/95	504680
		+7743.2000	+473.9600	09/19/95	505224
		+3952.1000	+295.7800	10/17/95	505782
		+3364.5000	+272.8600	11/14/95	506406
		+8932.6000	+539.2200	12/12/95	506930
	PB-212	+7.5319	+4.5057	04/04/95	501816
		+0.6045	+4.7264	05/02/95	502409
		+2.2945	+7.8582	07/25/95	504142
	PB-214	+5.3582	+6.8100	02/07/95	500752
		+5.2981	+3.5952	03/07/95	501263
		+33.0440	+8.8365	07/25/95	504142
		+20.0970	+5.6091	08/22/95	504680
		+83.7850	+12.5870	09/19/95	505224
		+74.2070	+13.9440	10/17/95	505782
		+33.1740	+12.8460	12/12/95	506930
	SR 89				
		-4.4099	+5.6300	03/07/95	501263
		+6.6600	+12.4600	05/30/95	503007
		+4.0800	+13.5300	08/22/95	504680
		-11.7199	+11.7300	11/14/95	506406
	SR 90				
		+12.2400	+3.3800	03/07/95	501263
		+41.5400	+7.7100	05/30/95	503007
		+39.5400	+6.6900	08/22/95	504680
		+26.4800	+4.8900	11/14/95	506406