

MAY 21 2012

ARCADIS

**CERTIFIED MAIL**



LR-E12-0070

Karen Tuccillo  
Radiation Protection Programs  
Bureau of Nuclear Engineering  
New Jersey Department of Environmental Protection  
33 Arctic Parkway  
Trenton, New Jersey 08625

**QUARTERLY REMEDIAL ACTION PROGRESS REPORT, FOURTH QUARTER 2011  
PSEG NUCLEAR, LLC, SALEM GENERATING STATION**

Dear Ms. Tuccillo:

PSEG Nuclear, LLC (PSEG) hereby transmits one copy of the Quarterly Remedial Action Progress Report prepared by ARCADIS U.S., Inc., on behalf of PSEG. This report summarizes the groundwater remediation activities performed during the fourth quarter 2011 at the PSEG Salem Generating Station as a component of the Site-wide Tritium Management Program.

If you have any questions or comments regarding the contents of this report, please do not hesitate to contact me at (856) 339-7900 or Gamon Biggs at (856) 339-2678.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey Pantazes", written over a faint, stylized outline of the letter "J".

Jeffrey Pantazes  
Manager – Nuclear Environmental Affairs

C     Mr. Ron Nimitz – USNRC  
       USNRC – Salem Resident Inspector  
       USNRC – Document Room



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Mr. Jeffrey Pantazes  
Manager – Nuclear Environmental Affairs  
PSEG Nuclear, LLC.  
P.O. Box 236 – M/C: N21  
Hancocks Bridge, NJ 08038

Environment

Subject:

Quarterly Remedial Action Progress Report, Fourth Quarter 2011  
PSEG Nuclear, LLC, Salem Generating Station

Date:

May 21, 2012

Dear Mr. Pantazes:

Contact:

John H. Balletto

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Our ref:

NP000571.SW11.00004

ARCADIS U.S., Inc. (ARCADIS) has prepared this Quarterly Remedial Action Progress Report (RAPR) summarizing the groundwater remediation activities performed during 2011 at the PSEG Nuclear, LLC, Salem Generating Station Unit 1 (Station). The Site is located on Artificial Island in Hancocks Bridge, Salem County, New Jersey and is comprised of both the Salem Generating Station (SGS) and the Hope Creek Generating Station (HCGS). Salem Unit 1 occupies the southernmost portion of this multi-reactor site. Salem Unit 1 groundwater remediation activities are being conducted to address tritium detected in shallow groundwater adjacent to and south of the Salem Unit 1 Reactor Containment and Fuel Handling Building (FHB), and are a component of the Site-wide Integrated Tritium Management Program (ITMP). The Site plan is depicted on **Figure 1**.

The source of the release of tritium contaminated water to the environment was remedied in February 2003 when the Salem Unit 1 telltale drains were cleared and the Spent Fuel Pool (SFP) water that had accumulated behind the liner was drained. Routine maintenance of the SFP telltale drains has prevented a reoccurrence of the standing water condition responsible for the initial release and has precluded further flow restrictions in those drains. The installed seismic gap drains continue to provide a hydraulic gradient into the building, to the radioactive waste management systems, and away from the environment. The Groundwater Recovery System (GRS) is designed to control the flow of shallow groundwater outside the cofferdam in the shallow unconsolidated zone and to maintain the plume to the on-site area while removing the remaining tritiated groundwater.

Imagine the result

The monitoring associated with the GRS operation provides data to support the adaptive management program and analyze the efficiency of the program. Plant related gamma-emitting radioisotopes have not been detected and tritium concentrations have generally continued to decline in groundwater samples, indicating that current activities meet the objectives of the program as provided in the Remedial Action Work Plan (RAWP).

As of December 2011, the present estimate of tritium left in the plume, where it exists above the New Jersey Department of Environmental Protection (NJDEP) Ground Water Quality Criteria (NJGWQC), is estimated to potentially range from less than 0.1 Curie (Ci) of tritium, to 1.0 Ci. Calculated annually, the estimate is based upon the concentrations in wells (past and present) modified by estimates of: the amount of tritium drawn back through the seismic gap by gap draining activities, the actual degree of variability in the tritium concentrations of the groundwater, and the amount of mass held in dead end pore space. Further complicating the estimate is the fact that the existing monitoring network was designed to monitor a much more extensive plume; therefore the great reductions in plume mass achieved to date has resulted in the present situation where only a few wells indicate concentrations above the NJGWQC.

The following sections present the background of environmental investigation and remedial action at the Site, the details and results of activities conducted since the submittal of the Third Quarter 2011 RAPR, and provide a discussion of upcoming activities projected for the next reporting period.

### **Project Background**

The remedial program is based upon the 2004 Remedial Investigation Report (RIR) submitted to the New Jersey Department of Environmental Protection Bureau of Nuclear Engineering (NJDEP-BNE). This RIR presented results of the groundwater investigation performed in response to the discovery of tritium in groundwater adjacent to Salem Unit 1 resulting from a release from the Spent Fuel Pool.

As an additional protective measure, weekly draining of the Unit 1 seismic gap was initiated in April 2005. A drain for the Unit 2 seismic gap was subsequently installed. This ensures control of water present in the seismic gap through continuous draining through both the Unit 1 and Unit 2 seismic gap drains. These drains are sampled monthly.



### Continued Groundwater Monitoring

Groundwater monitoring has continued in accordance with the schedule provided to NJDEP-BNE. The sampling program was developed to provide the best reasonable understanding of plume distribution and containment. The monitoring program has been supplemented with other wells outside the area of the plume to help provide an understanding of the presence of tritium in groundwater throughout the Site.

Groundwater samples are collected by Maplewood Testing Services personnel, submitted to Salem Chemistry for preliminary tritium analysis and gamma emitter screening, and then sent to an external lab for more refined evaluation yielding lower detection limits.

Analytical data indicate that plant related gamma-emitting radioisotopes have not been detected in groundwater from any monitoring well since monitoring was initiated in 2003.

Recent analytical tritium results for groundwater collected from the Station monitoring wells are presented on **Figure 2**, which includes: panel 1) the extent of tritium in groundwater at the completion of the remedial investigation (Baseline Plume); panel 2) the extent of tritium in groundwater one year prior to the reporting period (December 2010); and, panel 3) the extent of tritium in groundwater in December 2011. **Figure 2** shows that the mass of tritium in groundwater is comparable to previous submittals, and although the rate of change will decrease over time, the comparability is prompting an investigation of the effectiveness of the GRS.

The following sections present the groundwater analytical results based on the water-bearing zone from which they are collected. The three primary water-bearing units investigated beneath the Station are: 1) the Vincentown Formation; 2) the shallow water-bearing unit within the limits of the cofferdam surrounding Salem Unit 1; and, 3) the shallow, water-bearing unit outside the limits of the cofferdam.

### Tritium Analytical Results for the Vincentown Formation

Six monitoring wells are screened in the Vincentown Formation. Groundwater quality for Well K, Well L, Well P and Well Q is currently monitored on a semiannual basis,



Well V is currently monitored quarterly and Well CB is typically monitored on a monthly basis.

Tritium has consistently not been detected above Station laboratory detection limits or detected at relatively low levels in groundwater at all monitoring wells screened within the Vincentown formation since the initiation of monitoring at these locations, with the recent exception of Well CB. As previously discussed, concentrations of tritium increased at Well CB following the March/April 2008 outage, during which the steam generators in Unit 2 were replaced. Well CB was damaged during these activities and was repaired in mid 2010. Tritium was also detected at a peak concentration greater than observed historical concentration ranges in August 2011. Similar increases were observed in various wells site-wide, in wells located on both SGS and HCGS. During subsequent monitoring events, tritium was detected at decreased concentrations consistent with historical concentration ranges observed in Well CB. These historical data trends indicate that the anomalous tritium concentrations observed during the August 2011 monitoring events were onetime events and are not indicative of a continuous release or occurrence. PSEG will continue to monitor the analytical results collected from Well CB on a monthly basis. A Tritium Recapture Evaluation, included as Attachment 1, provides a hypothesis to the probable source of tritium detected during the August 2011 monitoring event.

Thus, the groundwater monitoring results continue to indicate that the previous release of tritium impacted water from the SFP has not significantly migrated below the shallow water-bearing unit.

#### **Tritium Analytical Results for Wells Installed Within the Limits of the Cofferdam**

The following wells are screened in the shallow, water-bearing unit within the limits of the cofferdam: Well M, Well N, Well O, Well R, Well AC, Well AE, Well AI, Well AM, Well AN, and Well AO. Additionally, Well DA, Well DB, Well DC, Well DD, Well DE, Well DF, Well DG, Well DH, Well DI, and Well DJ (collectively referred to as the Salem Unit 2 Monitoring Wells) were installed in the shallow, water-bearing unit within the limits of the cofferdam in November 2010 and are monitored as part of the remedial investigation. Groundwater quality for these wells is currently monitored on a monthly basis, with the exception of Well AO. Well AO was permanently taken offline by PSEG in May 2009 after it was determined that the hydraulic capture area of Well AO was influencing a nearby diesel plume. **Figure 2** shows tritium concentrations in monitoring wells surrounding Salem Unit 1.

As discussed in previous RAPRs, Well M had exhibited a long term decline until the end of March 2011 when an uncharacteristic detection above the NJDEP Groundwater Quality Criterion (GWQC) for Class IIA aquifers (20,000 pCi/L) occurred. Tritium concentrations remained elevated in this well throughout the second quarter of 2011. Subsequent analytical results show a significant decline in tritium concentrations in Well M during both the third and fourth quarters of 2011, resulting in concentrations less than the GWQC in October 2011 (16,600 pCi/L), November 2011 (12,100 pCi/L) and December 2011 (10,700 pCi/L).

Nearby Well AI exhibits an overall decreasing tritium concentration trend since January 2011 with the exception of the sample collected during the November 2011 event (13,600 pCi/L). A subsequent analytical result (December 2011, 2,060 pCi/L), shows a significant decline in tritium concentrations in Well AI, consistent with the overall decreasing concentration trend observed prior to November 2011 indicating that the anomalous tritium concentration observed during the November 2011 monitoring event is not from a continuous release or occurrence. PSEG will continue to monitor Well AI in conjunction with Well M.

During the fourth quarter 2011, tritium concentrations observed in Well AE continued to decrease, remaining below 20,000 pCi/L. Tritium concentrations observed in Well AM demonstrated an overall decreasing trend during 2011 with the exception of the sample collected in December 2011 (7,740 pCi/L), when compared to the previous analytical result collected in September 2011 (6,630 pCi/L).

Well O exhibits an overall decreasing tritium concentration trend since January 2011 with the exception of samples collected during the July 2011 (9,460 pCi/L) and November 2011 (7,090 pCi/L) sampling events. Following the observed increase in tritium concentration in July 2011, subsequent sampling events yielded results consistent with the prevalent decreasing trend previously observed in Well O.

Well AN also exhibits an overall decreasing trend since January 2011, with the exception of samples collected in September 2011 (11,600 pCi/L) when compared with the previous data point collected in May 2011 (2,440 pCi/L). Samples were not collected from Well AN during the fourth quarter of 2011 due to the pump located in Well AN being out of service.

Tritium concentrations in Well R, Well N and Well AC continued to fluctuate and demonstrated a slightly increasing trend during this reporting period. December 2011



concentrations from these three wells were below 20,000 pCi/L and are comparable to historical results.

In general, tritium concentrations in the cofferdam wells exhibit general decreasing trends since the initiation of remediation and will continue to be monitored on a monthly basis.

#### Salem Unit 2 Monitoring Wells

Subsequent to the detection of tritium in catch basins associated with the Unit 2 plant vent leak in April 2010, PSEG reevaluated programs, procedures, processes, and plant systems associated with the management of tritium across the SGS through a Focused Area Self Assessment (FASA, LS-AA-126-1001-F2). The self-assessment team identified that the RGPP well network, though inclusive of the entire Salem Unit 2 Station, could be further refined to identify leaks earlier by installing additional wells closer to potential sources. In October/November 2011, ten new monitoring wells (Wells DA, DB, DC, DD, DE, DF, DG, DH, DI, and DJ) were installed in the shallow, water-bearing unit within the limits of the cofferdam, to assist in identifying potential leaks from Salem Unit 2. Groundwater monitoring activities commenced in January 2011.

During the fourth quarter 2011, tritium was detected in groundwater samples from six of the ten Salem Unit 2 monitoring wells at a concentration greater than the Interim Further Investigation Criterion of 3,000 pCi/L that was established during the 2004 Salem Unit 1 Spent Fuel Pool Leak Remedial Investigation, but below the NJDEP GWQC, with concentrations ranging from 3,040 pCi/L (Well DC, November 2011) to 14,600 pCi/L (Well DE, October 2011). The tritium concentration trends observed since January 2011 are described below.

Tritium concentrations in Well DA are observed to fluctuate since monitoring began in January 2011 (2,849 pCi/L), and ranges from 1,330 pCi/L (September 2011) to 3,880 pCi/L (February 2011). Tritium concentrations observed during the fourth quarter 2011 are observed to be below 3,000 pCi/L.

Wells DB and DC exhibit overall decreasing tritium concentration trends since January 2011 with the exception of the samples collected during the December 2011 sampling event when compared to the analytical results from the November 2011 sampling event. A slight increase was observed in Wells DB and DC from November



2011 (6,640 pCi/L and 3,040 pCi/L, respectively) to December 2011 (7,080 pCi/L and 3,740 pCi/L, respectively).

Tritium concentrations in Wells DD, DE, DF, and DH are observed to be consistent with slight fluctuations throughout 2011. The data for Well DJ also demonstrate consistent tritium concentrations with the exception of the August 2011 (1,170 pCi/L) and September 2011 (1,450 pCi/L) sampling events. Subsequent analytical results reveal that tritium concentrations have returned to concentrations previously and consistently observed in Well DJ.

Well DG demonstrates an overall decreasing tritium concentration trend since monitoring began in January 2011 (30,481 pCi/L), resulting in concentrations below the NJDEP GWQC in November 2011 (7,150 pCi/L). Tritium concentrations in Well DI also demonstrate an overall decreasing trend since monitoring began in January 2011 (3,908 pCi/L). A slight increase was observed during the August 2011 (2,100 pCi/L) monitoring event when compared to July 2011 (1650 pCi/L); however, analytical results subsequently collected from Well DI demonstrate decreasing tritium concentrations consistent with results observed prior to August 2011.

As previously stated, tritium was detected at increased concentrations during July and August 2011 in various wells site-wide due to accelerated precipitation recapture from the number and magnitude of rain events (Attachment 1). During subsequent monitoring events, tritium was detected at a decreased concentration consistent with previously observed ranges. These trends indicate that the anomalous tritium concentrations observed during the July/August monitoring events were onetime events and are not indicative of a continuous release or occurrence.

Tritium concentrations observed during 2011 did not identify a specific source for the tritium detected in groundwater samples from the monitoring wells. As such, additional investigation of groundwater within the cofferdam is warranted to identify the source and extent of tritium in groundwater as detailed in the Remedial Investigation Work Plan (RIWP) Addendum (ARCADIS 2012).

#### **Tritium Analytical Results for Wells Installed Outside the Limits of the Cofferdam**

The wells installed in the shallow, water-bearing unit beyond the limits of the cofferdam include Well S, Well T, Well U, Well W, Well Y, Well Z, Well AA, Well AB, Well AD, Well AF, Well AG (Shallow and Deep), Well AH (Shallow and Deep), Well AJ, Well AL, Well AP, Well AQ, Well AR, Well AS, Well AT (**Figure 2**), and Well CA

(Figure 3). These wells are screened either just above the clay confining unit that separates the shallow water-bearing unit from the Vincentown Formation, or in the interval indicating the highest tritium concentrations found in the shallow water-bearing unit at each boring location at the time of the Supplemental Investigation completed in August 2003. Five of these wells (Well T, Well U, Well Y, Well Z and Well AL) are monitored under the Radiological Groundwater Protection Program (RGPP). Additional data for these wells can be found in the Annual Radiological Environmental Operating Report.

Elevated tritium concentrations were observed in samples collected from certain monitoring wells in July/August 2011 due to accelerated precipitation recapture from the number and magnitude of rain events. Well AA, Well AC, Well AG-D, Well AG-S, Well AH-D, Well AH-S, Well AL, Well AP, Well O, Well S, Well Y, and Well Z displayed increased concentrations of tritium, some above administrative limits, which initiated an investigation (Attachment 1). Evaluation of the subsequent data points (Fourth quarter of 2011) indicates that tritium concentrations are consistent with concentrations observed prior to August 31, 2011.

As presented on Figure 2, tritium concentration trends for wells screened in the shallow, water-bearing unit, beyond the limits of the cofferdam, are observed to be generally stable with the exception of the July/August 2011 event described above.

### Groundwater Extraction

Groundwater extraction was selected as the remedial strategy for the plume, and operation of the full scale system was initiated in 2005. The system is routinely inspected to ensure continued effectiveness in support of the remedial action objectives. Currently the system performance is under evaluation and maintenance is planned.

### Full-Scale System

The objectives of the full-scale GRS consist of maintaining hydraulic containment of the tritium plume and reducing tritium concentrations in groundwater. Wells S, AB, AD, AJ, AN, AO, AS and AT are monitored as part of the GRS.

The current operation of the GRS, as observed by ARCADIS on December 20, 2011, consists of groundwater extraction from Well AT, with the remaining pumps being stopped (AB, AJ, AO, and S), off (AN), or tagged out (Well AO and AS).



Groundwater extracted from the wells is processed in accordance with the Station's United States Nuclear Regulatory Commission (USNRC) license and plant procedures. Details of the extracted effluent are discussed below.

The operation of the pumping wells varies from month to month based on pumping yields and pump function. As discussed above, **Figure 2** shows that concentrations of tritium in groundwater observed in December 2011 are comparable to previous submittals, prompting an investigation of the effectiveness of the GRS. In December 2011, PSEG performed flushing activities on the GRS system header and lines for pumping Wells AB and S. During the flushing activities, PSEG observed silted and muddy water discharge. Flushing continued until the discharge was visibly observed to be clear.

Prior to flushing activities totalizer release volume data collected from December 8 through December 15, 2011 indicated that minimal groundwater (less than 100 gallons) had been recovered from the GRS system. Data collected after the flushing activities, from December 15 through December 22, 2011, revealed that 17,405 gallons had been recovered from the GRS system, indicating that the previously observed reduced pumping rates are at least partially caused by silt accumulation in the system lines. At the request of PSEG, ARCADIS is performing an engineering evaluation of the GRS system. Initial investigation noted that the remaining GRS piping requires flushing to remove accumulated silt.

Additionally, a comparison of well construction details and recent total depth measurements of the GRS wells was made. The difference observed in constructed depth to current total depth indicates silt is accumulating in the screened interval of all GRS recovery wells, leading to decreased open surface area of the well screens and reduced recovery rates. As a result, PSEG is planning to re-develop the GRS wells to remove the silt and clean the sand filter pack. This will increase communication with the aquifer and allow longer operation between pump service events. Re-development will be performed concurrently with the flushing activities previously planned to improve the current operation of the GRS system.

PSEG will complete the engineering investigation to assess the material condition of the wells in the 1<sup>st</sup> quarter 2012 and expects that with the continued effective operation of the GRS, tritium concentrations in groundwater will continue to decrease.



#### Mobile Groundwater Recovery Unit

The mobile groundwater recovery unit was designed to recover groundwater from specific areas of the plume as needs arise. The mobile unit is not currently in service.

#### Total System Effluent Data and Evaluation

GRS operations were initiated on February 16, 2005. The GRS discharges continuously in accordance with the Station's USNRC license. As of December 2011, the GRS has recovered nearly 28 million gallons of groundwater.

#### Water-Level Data and Evaluation

Water level measurements from the extraction and select observation wells have been monitored to confirm hydraulic containment of the tritium groundwater plume. Water levels are periodically measured and evaluated to provide insight into groundwater flow patterns at the Site. Groundwater elevation contours developed from water level measurements collected in January, March, August and November of 2011 are presented on **Figures 4, 5, 6, and 7**, respectively.

#### Cumulative Curies Removed

The various groundwater recovery activities conducted to date have been successful in controlling the plume and recovering tritium from groundwater at and downgradient of the Salem Unit 1 seismic gap.

**Figure 8** summarizes the results of groundwater remediation activities conducted using the GRS, including both the pilot study and the permanent system. As shown on **Figure 8**, approximately 2.47 curies of tritium have been recovered from the operation of the GRS through December 2011. Approximately 1 curie (0.88 curies) of tritium was removed by the pilot system. Therefore an estimated total of 3.35 curies of tritium have been recovered from the operation of the GRS through December 2011. The effectiveness of the GRS is emphasized by the decrease and stabilization of system effluent concentrations since the activation of the full scale system in February 2005. System effluent concentrations averaged 31,538 pCi/L during the fourth quarter 2011. This indicates that the GRS has been successful at decreasing tritium concentrations in groundwater as discharge concentrations are roughly 29% of the peak concentration (109,000 pCi/L) observed in March 2005. It is

noted that as the mass remaining in the plume decreases so will the rate of tritium recovery by the GRS based on the concentrations recovered. As described above, the yield of the GRS has decreased and an investigation and corrective actions are underway to rectify this condition.

### Operation of the Seismic Gap Drain

As stated above the seismic gap drains in Salem Unit 1 and Unit 2 are being used to continuously drain the water from the gaps to provide control over water present within the gaps. This permits recovery of additional tritium concentrations over that recovered by the GRS system.

Water samples from the seismic gap drains are periodically collected for tritium analysis. **Figure 9** summarizes the results of periodic tritium analysis from the Unit 1 seismic gap. A comparison of **Figure 2** and **Figure 9** indicates that concentrations of tritium in water recovered in the Unit 1 seismic gap have been consistently higher than those detected in groundwater samples collected from Well AC and Well AM located to the southeast and southwest of the seismic gap, respectively. Thus, continuous operation of the Unit 1 seismic gap drain is effectively removing SFP water in the seismic gap. Tritium concentrations in water presently being removed from the gap indicate that the continuous draining program has been successful in establishing a more direct flow path between the seismic gap drain and any SFP water.

Continuous draining provides a positive assurance that the engineering control established by the seismic gap drain is effective at capturing SFP water that enters the gap and promotes a localized hydraulic head less than that present in the geologic materials present outside the seismic gap. The gap drain creates an inward gradient such that groundwater would flow into the seismic gap limiting the potential for a discharge to the environment from the gap.

Monitoring of water drained from the Unit 2 seismic gap acts as a screen for a potential release from the Unit 2 SFP. Water samples collected in the Unit 2 seismic gap drain indicate tritium levels several orders of magnitude below the Unit 1 seismic gap drain concentration, and consistent with the overall trends in the Unit 1 seismic gap drain.



Water samples will continue to be obtained from the Unit 1 and Unit 2 seismic gap drain to evaluate the potential for the release of radioisotopes to the environment.

**Upcoming Activities**

Activities projected for the 1<sup>st</sup> Quarter 2012 include the following:

- Continue to monitor continuous draining of seismic gap drains;
- Continue to measure groundwater levels and evaluate flow and plume containment;
- Continue groundwater sampling and analysis; and
- Evaluate operation, take appropriate corrective actions, and review maintenance activities to optimize the GRS performance.

If you have any questions or comments regarding the contents of this report, please do not hesitate to contact me at (609) 860-0590, extension 248.

Sincerely,

ARCADIS U.S., Inc.



John H. Balletto  
Principal Scientist/Vice President

Attachments:

Tritium Recapture Evaluation, February 2012

Copies:

Peter Milionis - ARCADIS  
Kate Kenny - ARCADIS



Table 01. Well Construction Details, PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well ID	Installation Date	Construction Details	Diameter (inches)	Total Depth (feet bgs)	Monitoring Interval (feet bgs)	Monitored Hydrogeologic Unit	MP Elevation (feet RPD)	MP Elevation (feet amsl)	Northing (NAD 83)	Easting (NAD 83)
Well K	Feb-03	Sch-40 PVC	2	80.0	70.0 - 80.0	Vincentown <sup>1</sup>	102.00	12.08	231,435	199,697
Well L	Jan-03	Sch-40 PVC	2	80.0	70.0 - 80.0	Vincentown <sup>1</sup>	101.46	11.54	230,933	199,263
Well M	May-03	Sch-40 PVC	1	20.0	10.0 - 20.0	Cofferdam <sup>2</sup>	102.17	12.25	230,843	199,546
Well N	Jan-03	Sch-40 PVC	2	20.0	10.0 - 20.0	Cofferdam <sup>2</sup>	101.65	11.73	230,777	199,661
Well O	Jan-03	Sch-40 PVC	2	20.0	10.0 - 20.0	Cofferdam <sup>2</sup>	101.33	11.41	230,804	199,839
Well P	Mar-03	Sch-40 PVC	2	80.0	70.0 - 80.0	Vincentown <sup>1</sup>	101.13	11.21	230,336	200,000
Well Q	Mar-03	Sch-40 PVC	2	80.0	70.0 - 80.0	Vincentown <sup>1</sup>	106.59	16.67	230,645	201,196
Well R	Jun-03	Sch-40 PVC	1	19.0	9.0 - 19.0	Cofferdam <sup>2</sup>	102.35	12.43	230,906	199,640
Well S <sup>4</sup>	May-03	Sch-40 PVC	2	34.7	24.7 - 34.7	Shallow <sup>3</sup>	99.04	9.12	230,711	199,613
Well T	Jun-03	Sch-40 PVC	2	31.2	21.2 - 31.2	Shallow <sup>3</sup>	104.13	14.21	231,575	199,575
Well U <sup>4</sup>	May-03	Sch-40 PVC	2	32.2	27.2 - 32.2	Shallow <sup>3</sup>	98.57	8.65	231,370	199,618
Well V <sup>4</sup>	Jun-03	Sch-40 PVC	2	79.5	69.5 - 79.5	Vincentown <sup>1</sup>	98.74	8.82	231,355	199,548
Well W <sup>4</sup>	Jun-03	Sch-40 PVC	2	35.0	25.0 - 35.0	Shallow <sup>3</sup>	98.26	8.34	230,777	199,450
Well Y	Sep-03	Sch-40 PVC	2	37.0	27.0 - 35.0	Shallow <sup>3</sup>	101.81	11.89	230,771	199,343
Well Z	Sep-03	Sch-40 PVC	2	37.5	27.5 - 37.5	Shallow <sup>3</sup>	101.86	11.94	230,681	199,399
Well AA <sup>4</sup>	Sep-03	Sch-40 PVC	2	36.0	26.0 - 36.0	Shallow <sup>3</sup>	99.07	9.15	230,603	199,541
Well AB <sup>4</sup>	Oct-03	Sch-40 PVC	2	42.0	32.0 - 42.0	Shallow <sup>3</sup>	98.93	9.01	230,623	199,677
Well AC <sup>4</sup>	Sep-03	Sch-40 PVC	2	24.0	14.0 - 24.0	Cofferdam <sup>2</sup>	98.77	8.85	230,724	199,725
Well AD <sup>4</sup>	Oct-03	Sch-40 PVC	6	43.0	33.0 - 43.0	Shallow <sup>3</sup>	98.99	9.07	230,684	199,607
Well AE	Oct-03	Sch-40 PVC	2	37.5	27.5 - 37.5	Cofferdam <sup>2</sup>	101.54	11.62	230,829	199,845
Well AF	Oct-03	Sch-40 PVC	2	45.0	35.0 - 45.0	Shallow <sup>3</sup>	101.61	11.69	230,491	199,702
Well AG-Shallow	Feb-04	Sch-40 PVC	1	24.2	14.2 - 24.2	Shallow <sup>3</sup>	99.29	9.37	230,496	199,508
Well AG-Deep	Feb-04	Sch-40 PVC	1	40.0	30.0 - 40.0	Shallow <sup>3</sup>	99.20	9.28	230,496	199,508
Well AH-Shallow	Feb-04	Sch-40 PVC	1	24.5	14.5 - 24.5	Shallow <sup>3</sup>	102.58	12.66	230,450	199,596
Well AH-Deep	Feb-04	Sch-40 PVC	1	40.0	30.0 - 40.0	Shallow <sup>3</sup>	102.70	12.78	230,450	199,596

Notes:

- MP Measuring Point
- bgs Below ground surface
- RPD Relative to plant datum
- amsl Relative to mean sea level (NAVD 1988)
- <sup>1</sup> Monitoring well is screened in the Vincentown Formation.
- <sup>2</sup> Monitoring well is screened in the shallow, water-bearing unit at a location within the limits of the cofferdam.
- <sup>3</sup> Monitoring well is screened in the shallow, water-bearing unit at a location outside the limits of the cofferdam.
- <sup>4</sup> The surface completions of Monitoring Wells S, U, V, W, AA, AB, AC, and AD were converted from above-grade to flush-grade in February 2004.

Table 01. Well Construction Details, PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well ID	Installation Date	Construction Details	Diameter (inches)	Total Depth (feet bgs)	Monitoring Interval (feet bgs)	Monitored Hydrogeologic Unit	MP Elevation (feet RPD)	MP Elevation (feet amsl)	Northing (NAD 83)	Easting (NAD 83)
Well AI	Jan-04	Sch-40 PVC	4	22.0	12.0 - 22.0	Cofferdam <sup>2</sup>	98.79	8.87	230,798	199,521
Well AJ	Jan-04	Sch-40 PVC	4	35.3	15.3 - 35.3	Shallow <sup>3</sup>	98.85	8.93	230,670	199,665
Well AL	Jan-04	Sch-40 PVC	2	25.3	15.3 - 25.3	Shallow <sup>3</sup>	99.13	9.21	230,594	199,806
Well AM	Jan-04	Sch-40 PVC	4	20.9	10.9 - 20.9	Cofferdam <sup>2</sup>	98.55	8.63	230,762	199,680
Well AN	Jun-04	Sch-40 PVC	4	25.0	10.0 - 25.0	Cofferdam2	98.76	8.84	230,727	199,735
Well AO	Jun-04	Sch-40 PVC	4	21.0	11.0 - 21.0	Cofferdam2	98.82	8.90	230,765	199,556
Well AP	Jun-04	Sch-40 PVC	4	40.0	15.0 - 40.0	Shallow3	98.65	8.73	230,694	199,464
Well AQ	Jun-04	Sch-40 PVC	4	45.0	20.0 - 45.0	Shallow3	99.05	9.13	230,526	199,540
Well AR	Jun-04	Sch-40 PVC	4	43.0	18.0 - 43.0	Shallow3	99.22	9.30	230,622	199,626
Well AS	Jun-04	Sch-40 PVC	4	41.5	16.5 - 41.5	Shallow3	99.44	9.52	230,566	199,604
Well AT	Jun-04	Sch-40 PVC	4	44.0	19.0 - 44.0	Shallow3	99.25	9.33	230,546	199,566
Well BW	Dec-06	Sch-40 PVC	1	10.0	5.0 - 10.0	Shallow1	98.72	8.80	231,563	199,864
Well BX	Dec-06	Sch-40 PVC	1	10.0	5.0 - 10.0	Shallow1	98.72	8.80	231,582	199,876
Well CA	Dec-06	Sch-40 PVC	4	38.0	28.0 - 38.0	Shallow <sup>2</sup>	98.87	8.95	231,318	199,791
Well CB	Dec-06	Sch-40 PVC	2	80.0	70.0 - 80.0	Vincentown <sup>3</sup>	98.98	9.06	231,328	199,787
Well DA	Nov-10	Sch-40 PVC	4	16.0	17.0 - 22.0	Shallow <sup>2</sup>	98.93	9.01	231,092	199,562
Well DB	Nov-10	Sch-40 PVC	4	24.9	1.55 - 24.5	Shallow <sup>2</sup>	101.69	11.77	231,154	199,519
Well DC	Nov-10	Sch-40 PVC	4	25.4	20.0 - 25.0	Shallow <sup>2</sup>	100.9	10.98	231,224	199,675
Well DD	Nov-10	Sch-40 PVC	4	21.9	16.0 - 21.0	Shallow <sup>2</sup>	101.23	11.31	231,164	199,584
Well DE	Nov-10	Sch-40 PVC	4	20.9	15.0 - 20.0	Shallow <sup>2</sup>	101.43	11.51	231,199	199,642
Well DF	Nov-10	Sch-40 PVC	4	21.3	16.0 - 21.0	Shallow <sup>2</sup>	101.32	11.40	231,248	199,694
Well DG	Nov-10	Sch-40 PVC	4	13.3	11.0 - 13.0	Shallow <sup>2</sup>	98.98	9.06	231,116	199,493
Well DH	Nov-10	Sch-40 PVC	4	24.6	19.5 - 24.5	Shallow <sup>2</sup>	101.54	11.62	231,225	199,794
Well DI	Nov-10	Sch-40 PVC	4	20.5	15.0 - 20.0	Shallow <sup>2</sup>	101.64	11.72	231,199	199,815
Well DJ	Nov-10	Sch-40 PVC	2	10.7	5.5 - 10.5	Shallow <sup>2</sup>	99.03	9.11	231,137	199,830

Notes:

MP Measuring Point

bgs Below ground surface

RPD Relative to plant datum

amsl Relative to mean sea level (NAVD 1988)

<sup>1</sup> Monitoring well is screened in the Vincentown Formation.

<sup>2</sup> Monitoring well is screened in the shallow, water-bearing unit at a location within the limits of the cofferdam.

<sup>3</sup> Monitoring well is screened in the shallow, water-bearing unit at a location outside the limits of the cofferdam.

<sup>4</sup> The surface completions of Monitoring Wells S, U, V, W, AA, AB, AC, and AD were converted from above-grade to flush-grade in February 2004.

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AA	10/27/03		613	141	93	--	--
Well-AA	11/10/03		645	141	94	--	--
Well-AA	11/19/03	1	3,750	--	--	--	--
Well-AA	11/24/03		639	145	96	0.25	253
Well-AA	12/10/03		785	141	96	--	--
Well-AA	12/22/03		682	142	95	--	--
Well-AA	01/06/04		713	141	95	--	--
Well-AA	02/09/04		1,130	139	100	--	--
Well-AA	02/19/04	1	< 5390	5,390	--	--	--
Well-AA	03/18/04		2,610	140	120	--	--
Well-AA	04/12/04		3,140	140	126	0.24	169
Well-AA	05/03/04	1	< 5590	5,590	1,770	--	--
Well-AA	05/19/04	1	< 3320	3,320	1,198	< 3.3	168
Well-AA	06/23/04		4,376	142	141	--	--
Well-AA	06/23/04	1	--	--	--	< 3.33	138
Well-AA	07/29/04		1,650	156	118	--	--
Well-AA	08/02/04		1,580	148	112	--	--
Well-AA	08/31/04		1,543	159	118	--	--
Well-AA	09/08/04		1,512	152	113	--	--
Well-AA	10/11/04		1,529	146	110	--	--
Well-AA	11/08/04		1,927	152	118	0.59	147
Well-AA	12/14/04	1	< 3230.00	3,230	1,130	--	--
Well-AA	01/11/05		6,640	151	168	--	--
Well-AA	02/02/05		11,150	155	205	--	--
Well-AA	03/07/05		20,751	142	260	0.036	152
Well-AA	04/06/05	1	35,700	4,220	2,970	--	--
Well-AA	05/02/05	1	22,800	3,320	2,310	--	--
Well-AA	06/06/05		16,136	150	235	--	--
Well-AA	07/06/05		14,547	150	226	--	--
Well-AA	08/01/05		13,174	155	220	--	--
Well-AA	09/06/05		15,887	150	234	--	--
Well-AA	09/07/05	1	13,500	4,940	2,271	--	--
Well-AA	10/03/05		10,930	148	199	--	--
Well-AA	11/01/05		8,911	159	189	--	--
Well-AA	12/08/05		5,255	147	151	--	--
Well-AA	01/10/06		6,416	159	168	--	--
Well-AA	02/06/06		5,683	182	177	--	--
Well-AA	03/06/06		4,251	157	146	--	--
Well-AA	04/04/06		3,483	158	140	--	--
Well-AA	05/01/06		3,625	149	137	--	--
Well-AA	06/06/06		2,813	168	138	--	--
Well-AA	07/17/06		2,745	162	133	--	--
Well-AA	08/08/06		2,647	157	129	--	--
Well-AA	09/06/06		2,651	158	130	--	--
Well-AA	10/09/06		2,302	158	126	--	--
Well-AA	11/02/06		2,413	167	133	--	--
Well-AA	12/08/06		1,847	179	134	--	--
Well-AA	01/13/07		2,236	161	128	--	--
Well-AA	02/05/07		1,518	147	110	--	--
Well-AA	03/07/07		1,871	155	120	--	--
Well-AA	04/19/07		1,805	158	121	--	--
Well-AA	05/15/07		1,422	167	120	--	--
Well-AA	06/18/07		1,336	144	105	--	--
Well-AA	07/13/07		1,569	148	110	--	--
Well-AA	08/15/07		1,423	144	106	--	--
Well-AA	09/19/07		1,238	150	107	--	--
Well-AA	10/03/07		1,460	161	119	--	--
Well-AA	11/14/07		1,166	141	103	--	--
Well-AA	12/12/07		1,521	137	104	--	--
Well-AA	01/23/08		1,570	142	107	--	--
Well-AA	02/21/08		1,414	140	104	--	--
Well-AA	03/12/08		1,569	138	105	--	--
Well-AA	04/01/08		1,536	151	112	--	--



Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AA	05/08/08		1,474	146	108	--	--
Well-AA	06/19/08		1,498	146	108	--	--
Well-AA	07/07/08		1,423	138	103	--	--
Well-AA	08/07/08		1,459	131	99	--	--
Well-AA	09/02/08		1,475	134	101	--	--
Well-AA	10/17/08		1,360	135	100	--	--
Well-AA	11/18/08		1,381	131	98	--	--
Well-AA	12/15/08		1,456	135	101	--	--
Well-AA	01/08/09		1,615	133	102	--	--
Well-AA	02/24/09		1,605	140	107	--	--
Well-AA	03/16/09		1,885	133	106	--	--
Well-AA	04/08/09		1,722	141	109	--	--
Well-AA	05/11/09		1,479	138	103	--	--
Well-AA	06/03/09		1,512	133	101	--	--
Well-AA	07/21/09		1,520	142	107	--	--
Well-AA	08/04/09		1,406	144	106	--	--
Well-AA	09/02/09		1,481	135	102	--	--
Well-AA	10/08/09		1,428	139	103	--	--
Well-AA	11/04/09		1,419	131	99	--	--
Well-AA	12/29/09		1,336	144	105	--	--
Well-AA	01/13/10		1,514	199	149	--	--
Well-AA	03/10/10		1,621	188	145	--	--
Well-AA	04/11/10		1,352	197	144	--	--
Well-AA	05/14/10		1,609	182	142	--	--
Well-AA	06/18/10		1,693	198	153	--	--
Well-AA	07/09/10		1,782	188	149	--	--
Well-AA	08/09/10		1,778	188	148	--	--
Well-AA	09/09/10		1,765	187	147	--	--
Well-AA	10/13/10		2,040	212	168	--	--
Well-AA	11/10/10		1,798	180	146	--	--
Well-AA	12/08/10		1,769	144	111	--	--
Well-AA	01/14/11		1,818	183	147	--	--
Well-AA	03/04/11	2	1,620	214	217	--	--
Well-AA	04/07/11	2	1,520	220	211	--	--
Well-AA	05/05/11	2	1,380	202	196	--	--
Well-AA	06/16/11	2	1,770	217	228	--	--
Well-AA	07/13/11	2	1,730	227	229	--	--
Well-AA	08/31/11	2	2,130	244	266	--	--
Well-AA	09/15/11	2	1,810	243	241	--	--
Well-AA	10/20/11	2	1,390	191	191	--	--
Well-AA	11/17/11	2	1,500	236	217	--	--
Well-AB	10/28/03	1	292,000	--	--	--	--
Well-AB	11/02/03	1	280,000	--	--	--	--
Well-AB	11/19/03	1	321,000	--	--	--	--
Well-AB	12/04/03	1	409,000	--	--	--	--
Well-AB	12/16/03	1	489,000	--	--	--	--
Well-AB	01/14/04	1	281,000	--	--	--	--
Well-AB	02/17/04	1	215,000	--	--	--	--
Well-AB	03/03/04	1	193,000	--	--	--	--
Well-AB	04/06/04	1	260,000	4,706	7,380	--	--
Well-AB	05/04/04	1	136,000	5,589	5,817	9.3	134
Well-AB	05/11/04	1	144,000	5,392	5,967	--	--
Well-AB	05/19/04	1	172,000	5,780	6,108	< 3.3	292
Well-AB	05/24/04	1	213,000	4,563	6,779	--	--
Well-AB	06/03/04	1	210,000	4,563	6,746	< 3.3	105
Well-AB	06/17/04	1	194,000	5,666	6,509	--	--
Well-AB	07/07/04	1	202,000	3,360	6,330	--	--
Well-AB	07/12/04	1	206,000	3,620	6,380	--	--
Well-AB	07/19/04	1	195,000	2,870	6,160	8.12	156
Well-AB	07/28/04	1	213,000	4,280	6,600	--	--
Well-AB	08/02/04	1	184,000	4,420	6,120	--	--
Well-AB	08/09/04	1	164,000	4,850	5,840	--	214
Well-AB	08/16/04	1	150,000	3,320	5,490	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AB	08/25/04	1	171,000	3,030	5,880	--	--
Well-AB	09/01/04	1	189,000	4,520	6,220	--	--
Well-AB	09/08/04	1	165,000	3,790	5,750	--	--
Well-AB	09/13/04	1	170,000	4,560	5,980	15.9	212
Well-AB	09/22/04	1	166,000	5,230	5,910	--	--
Well-AB	10/04/04	1	152,000	3,320	6,000	--	--
Well-AB	10/12/04	1	152,000	2,220	5,520	--	--
Well-AB	10/18/04	1	142,000	3,230	5,340	--	--
Well-AB	11/03/04	1	167,000	2,720	5,850	--	--
Well-AB	11/08/04	1	156,000	3,230	5,650	--	--
Well-AB	11/15/04	1	161,000	3,910	5,800	--	--
Well-AB	11/29/04	1	163,000	2,650	5,730	--	--
Well-AB	12/13/04	1	146,000	3,230	5,410	--	--
Well-AB	01/11/05	1	142,000	3,910	5,330	--	--
Well-AB	01/27/05	1	160,000	2,470	5,650	--	--
Well-AB	01/31/05	1	156,000	4,560	5,770	--	--
Well-AB	02/01/05	1	155,000	2,650	5,630	--	--
Well-AB	02/08/05	1	141,000	4,660	5,560	--	--
Well-AB	03/02/05		151,376	144	664	--	--
Well-AB	03/07/05	1	160,000	3,490	5,770	--	--
Well-AB	03/14/05	1	158,000	4,320	5,760	--	--
Well-AB	03/23/05	1	163,000	3,790	5,830	--	--
Well-AB	03/28/05	1	153,000	6,280	5,920	--	--
Well-AB	04/18/05	1	135,000	4,420	5,470	--	--
Well-AB	05/18/05	1	224,000	3,490	7,050	--	--
Well-AB	06/22/05	1	97,300	3,750	4,460	--	--
Well-AB	08/15/05	1	71,900	3,905	3,950	--	--
Well-AB	10/17/05	1	59,200	3,790	3,730	--	--
Well-AB	11/15/05	1	60,800	3,430	3,740	--	--
Well-AB	12/12/05	1	52,900	4,370	3,600	--	--
Well-AB	01/24/06	1	49,200	3,550	3,480	--	--
Well-AB	02/23/06	1	38,900	3,920	3,200	--	--
Well-AB	03/21/06	1	48,500	3,730	3,580	--	--
Well-AB	04/17/06	1	52,300	5,510	3,990	--	--
Well-AB	05/15/06	1	39,800	5,000	3,590	--	--
Well-AB	06/20/06	1	43,100	4,890	3,680	--	--
Well-AB	07/24/06	1	40,800	5,470	3,540	--	--
Well-AB	09/21/06	1	42,300	7,550	3,700	--	--
Well-AB	01/23/07		5,014	159	158	--	--
Well-AB	02/06/07		41,865	172	387	--	--
Well-AB	06/19/07		33,171	145	316	--	--
Well-AB	08/23/07		26,139	141	283	--	--
Well-AB	09/20/07		25,081	148	283	--	--
Well-AB	10/17/07		23,146	151	286	--	--
Well-AB	10/07/08		1,294	150	108	--	--
Well-AB	04/29/09		6,533	151	164	--	--
Well-AB	05/11/09		25,595	144	276	--	--
Well-AB	06/10/09		35,650	141	327	--	--
Well-AB	05/25/10		21,427	182	355	--	--
Well-AB	06/09/10		19,612	196	349	--	--
Well-AC	10/28/03		--	--	--	--	30.8
Well-AC	10/28/03	1	10,900,000	--	--	253	--
Well-AC	11/03/03	1	14,200,000	--	--	--	--
Well-AC	11/18/03	1	14,400,000	--	--	--	--
Well-AC	12/18/03	1	15,000,000	--	--	--	--
Well-AC	01/20/04	1	10,700,000	--	--	--	--
Well-AC	02/18/04	1	9,170,000	--	--	--	--
Well-AC	03/18/04	1	6,360,000	--	--	--	--
Well-AC	04/08/04	1	6,560,000	5,822	36,309	--	--
Well-AC	06/04/04	1	3,400,000	6,283	26,713	< 3.3	12
Well-AC	07/07/04	1	2,770,000	3,360	23,200	--	--
Well-AC	07/28/04	1	3,200,000	4,280	25,100	--	--
Well-AC	08/02/04	1	2,840,000	3,320	23,400	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AC	08/09/04	1	2,230,000	4,850	20,900	17.9	71
Well-AC	08/16/04	1	2,150,000	3,320	20,400	--	--
Well-AC	08/25/04	1	2,040,000	3,030	19,900	--	--
Well-AC	09/01/04	1	1,940,000	4,520	19,400	--	--
Well-AC	01/11/05	1	699,000	3,910	11,600	--	--
Well-AC	01/17/05	1	680,000	3,360	11,600	--	--
Well-AC	02/09/05	1	614,000	4,660	11,200	--	--
Well-AC	04/29/05	1	32,400	3,320	2,650	--	--
Well-AC	05/24/05	1	34,100	3,320	2,760	--	--
Well-AC	06/16/05	1	26,300	3,750	2,520	--	--
Well-AC	07/29/05	1	22,400	3,320	2,340	--	--
Well-AC	08/18/05	1	219,000	4,753	6,877	--	--
Well-AC	09/26/05	1	47,300	4,220	3,390	--	--
Well-AC	11/21/05	1	21,300	4,370	2,520	--	--
Well-AC	12/12/05	1	44,100	4,370	3,340	--	--
Well-AC	01/12/06	1	29,100	3,550	2,770	--	--
Well-AC	02/28/06		16,730	153	239	--	--
Well-AC	03/23/06	1	35,300	5,000	3,360	--	--
Well-AC	06/16/06		13,932	158	226	--	--
Well-AC	07/14/06		9,709	152	192	--	--
Well-AC	08/23/06	1	115,000	5,100	5,340	--	--
Well-AC	09/27/06		13,686	159	224	--	--
Well-AC	11/17/06		25,401	143	284	--	--
Well-AC	12/28/06	1	31,500	3,730	3,010	--	--
Well-AC	01/22/07		21,717	159	280	--	--
Well-AC	02/12/07		31,231	151	319	--	--
Well-AC	03/27/07		20,137	151	265	--	--
Well-AC	04/23/07		25,990	169	316	--	--
Well-AC	05/10/07		20,809	178	287	--	--
Well-AC	06/19/07		22,914	147	268	--	--
Well-AC	07/30/07		26,067	149	286	--	--
Well-AC	08/28/07		31,152	144	308	--	--
Well-AC	10/30/07		40,898	158	370	--	--
Well-AC	11/27/07		31,460	123	300	--	--
Well-AC	12/29/07	1	53,500	4,780	4,010	--	--
Well-AC	03/30/08	1	51,100	4,540	3,780	--	--
Well-AC	04/29/08	1	73,300	4,190	4,400	--	--
Well-AC	05/30/08		28,584	140	289	--	--
Well-AC	06/18/08		26,056	135	272	--	--
Well-AC	07/21/08		25,830	139	277	--	--
Well-AC	08/21/08		24,575	128	264	--	--
Well-AC	09/22/08		23,562	145	267	--	--
Well-AC	10/30/08		23,497	144	268	--	--
Well-AC	11/25/08		24,419	133	266	--	--
Well-AC	12/15/08		26,934	152	294	--	--
Well-AC	01/23/09		28,061	137	286	--	--
Well-AC	02/11/09		26,723	147	289	--	--
Well-AC	03/20/09		20,112	126	235	--	--
Well-AC	04/27/09	1	27,200	4,290	2,880	--	--
Well-AC	05/29/09		19,015	132	237	--	--
Well-AC	06/22/09		19,220	134	240	--	--
Well-AC	07/21/09		20,130	142	250	--	--
Well-AC	08/27/09		22,826	143	265	--	--
Well-AC	09/25/09		21,881	152	266	--	--
Well-AC	10/22/09		20,906	139	251	--	--
Well-AC	11/18/09		24,489	132	264	--	--
Well-AC	12/14/09		27,471	146	287	--	--
Well-AC	02/22/10		564,467	189	1,739	--	--
Well-AC	05/25/10		25,380	185	387	--	--
Well-AC	07/16/10		31,196	184	422	--	--
Well-AC	07/23/10		51,015	186	534	--	--
Well-AC	08/11/10		33,176	189	438	--	--
Well-AC	08/25/10		21,232	188	355	--	--



Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AC	09/13/10		26,075	186	388	--	--
Well-AC	10/11/10		25,902	176	377	--	--
Well-AC	11/10/10		31,414	180	427	--	--
Well-AC	12/02/10		27,401	197	411	--	--
Well-AC	01/14/11		30,554	183	418	--	--
Well-AC	03/25/11	2	38,400	1,020	3,840	--	--
Well-AC	04/27/11	2	3,060	290	358	--	--
Well-AC	05/10/11	2	4,890	347	537	--	--
Well-AC	06/10/11	2	6,650	393	708	--	--
Well-AC	07/20/11	2	23,500	816	2,390	--	--
Well-AC	08/17/11	2	19,300	616	1,960	--	--
Well-AC	08/31/11	2	32,300	877	3,280	--	--
Well-AC	09/15/11	2	15,800	617	1,620	--	--
Well-AC	12/08/11	2	19,100	649	1,940	--	--
Well-AD	10/27/03	1	244,000	--	--	--	--
Well-AD	11/02/03	1	242,000	--	--	--	--
Well-AD	11/17/03	1	225,000	--	--	--	--
Well-AD	12/04/03	1	492,000	--	--	--	--
Well-AD	12/16/03	1	490,000	--	--	--	--
Well-AD	01/14/04	1	220,000	--	--	--	--
Well-AD	02/17/04	1	400,000	--	--	--	--
Well-AD	03/03/04	1	420,000	--	--	--	--
Well-AD	04/06/04	1	542,000	4,706	10,418	--	--
Well-AD	05/04/04	1	624,000	5,589	11,849	5.8	65
Well-AD	05/11/04	1	599,000	5,392	11,469	--	--
Well-AD	05/19/04	1	610,000	5,780	11,152	< 3.3	109
Well-AD	06/03/04	1	744,000	4,563	12,461	< 3.3	70.8
Well-AD	06/17/04	1	786,000	5,666	12,887	--	--
Well-AD	07/07/04	1	719,000	3,360	11,900	--	--
Well-AD	07/12/04	1	772,000	3,620	12,300	--	--
Well-AD	07/19/04	1	746,000	2,870	12,100	12	81
Well-AD	07/28/04	1	784,000	4,280	12,500	--	--
Well-AD	08/02/04	1	801,000	3,030	12,600	--	--
Well-AD	08/09/04	1	754,000	4,850	1,230	12.8	90
Well-AD	08/16/04	1	844,000	3,320	13,000	--	--
Well-AD	12/28/04	1	< 4060.00	4,060	1,130	--	--
Well-AD	03/02/05	1	672,000	3,670	11,700	--	--
Well-AD	03/07/05	1	613,000	3,490	11,300	--	--
Well-AD	03/14/05	1	717,000	4,320	12,100	--	--
Well-AD	03/23/05	1	558,000	3,790	10,700	--	--
Well-AD	03/28/05	1	42,200	6,280	3,640	--	--
Well-AD	04/18/05	1	481,000	4,420	10,000	--	--
Well-AD	05/18/05	1	449,000	3,490	9,320	--	--
Well-AD	06/22/05	1	340,000	3,750	8,160	--	--
Well-AD	07/19/05	1	296,000	3,750	7,610	--	--
Well-AD	08/15/05	1	213,000	3,905	6,575	--	--
Well-AD	10/17/05	1	224,000	3,790	7,010	--	--
Well-AD	11/15/05	1	207,000	3,430	6,700	--	--
Well-AD	12/12/05	1	152,000	4,370	5,860	--	--
Well-AD	01/24/06	1	151,000	3,550	5,710	--	--
Well-AD	02/23/06	1	135,000	3,920	5,640	--	--
Well-AD	03/21/06	1	115,000	3,730	5,330	--	--
Well-AD	04/17/06	1	106,000	5,510	5,460	--	--
Well-AD	05/15/06	1	117,000	5,000	5,780	--	--
Well-AD	06/20/06	1	82,700	4,890	4,870	--	--
Well-AD	07/24/06	1	80,300	5,470	4,650	--	--
Well-AD	08/22/06	1	81,200	2,520	2,100	--	--
Well-AD	09/21/06	1	61,900	7,550	4,240	--	--
Well-AD	10/06/06	1	73,600	6,270	4,430	--	--
Well-AD	11/16/06		76,143	168	517	--	--
Well-AD	12/15/06		72,300	147	471	--	--
Well-AD	01/23/07		71,873	155	481	--	--
Well-AD	02/06/07	1	61,900	4,370	4,130	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AD	03/14/07	1	56,000	4,020	3,770	--	--
Well-AD	06/19/07	1	68,500	3,430	4,300	--	--
Well-AD	07/19/07	1	61,700	4,530	4,200	--	--
Well-AD	08/23/07	1	71,300	4,280	4,520	--	--
Well-AD	09/20/07		62,399	146	431	--	--
Well-AD	10/17/07		49,284	167	416	--	--
Well-AD	11/15/07		43,625	123	351	--	--
Well-AD	12/13/07		47,643	148	376	--	--
Well-AD	01/24/08		47,925	140	372	--	--
Well-AD	03/12/08		57,773	146	416	--	--
Well-AD	04/23/08	1	58,300	5,060	4,090	--	--
Well-AD	05/09/08		1,197	148	105	--	--
Well-AD	06/12/08	1	60,100	5,210	3,980	--	--
Well-AD	07/16/08	1	61,700	4,780	4,060	--	--
Well-AD	09/22/08		57,254	134	394	--	--
Well-AD	02/18/09	1	61,700	--	--	--	--
Well-AD	04/29/09		1,324	149	108	--	--
Well-AD	05/11/09	1	77,300	4,610	4,640	--	--
Well-AD	06/10/09	1	55,600	4,540	3,950	--	--
Well-AD	04/13/10		46,467	185	511	--	--
Well-AD	05/25/10		35,148	188	455	--	--
Well-AD	06/09/10		34,518	194	450	--	--
Well-AD	07/22/10		26,929	184	393	--	--
Well-AD	08/09/10		31,525	203	437	--	--
Well-AD	09/16/10		16,890	187	320	--	--
Well-AD	10/12/10		28,843	188	410	--	--
Well-AD	11/15/10		17,705	189	337	--	--
Well-AD	12/16/10		28,220	197	417	--	--
Well-AD	03/22/11	2	22,800	719	2,330	--	--
Well-AD	04/07/11	2	26,900	812	2,730	--	--
Well-AD	05/05/11	2	23,800	734	2,420	--	--
Well-AD	09/10/11	2	27,800	823	2,830	--	--
Well-AE	10/27/03		5,990	145	156	0.23	14.2
Well-AE	11/02/03	1	5,710	--	--	--	--
Well-AE	11/19/03	1	6,910	--	--	--	--
Well-AE	12/04/03		10,200	146	190	0.17	10
Well-AE	12/18/03		15,800	147	229	--	--
Well-AE	01/14/04		16,100	144	229	--	--
Well-AE	02/09/04		16,600	139	232	--	--
Well-AE	03/03/04		17,000	147	237	--	--
Well-AE	03/18/04		19,000	145	248	--	--
Well-AE	04/28/04		14,900	140	220	0.09	8
Well-AE	05/03/04	1	14,000	5,589	2,409	--	--
Well-AE	06/17/04	1	7,810	5,666	2,152	< 3.33	10.6
Well-AE	07/13/04		7,820	149	175	--	--
Well-AE	08/16/04		7,238	151	173	--	--
Well-AE	09/22/04		5,939	140	156	--	--
Well-AE	10/18/04		5,375	150	156	--	--
Well-AE	11/22/04		4,636	152	149	--	--
Well-AE	12/16/04	1	< 3230.00	3,230	1,200	--	--
Well-AE	01/18/05		7,530	164	185	--	--
Well-AE	02/08/05		10,100	147	192	0.099	10.8
Well-AE	03/08/05		13,026	142	212	--	--
Well-AE	04/11/05		8,832	157	192	--	--
Well-AE	05/10/05		9,305	147	187	--	--
Well-AE	06/07/05		7,741	147	173	--	--
Well-AE	07/06/05		6,336	148	162	--	--
Well-AE	08/02/05		4,947	148	149	--	--
Well-AE	09/07/05		3,384	150	134	--	--
Well-AE	10/04/05		3,305	152	135	--	--
Well-AE	11/02/05		3,592	151	136	--	--
Well-AE	12/09/05		5,123	153	154	--	--
Well-AE	01/16/06	1	20,300	3,550	2,390	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AE	02/07/06	1	9,966	149	193	--	--
Well-AE	03/07/06		13,400	3,310	2,000	--	--
Well-AE	04/04/06		9,924	161	200	--	--
Well-AE	05/02/06		7,075	150	171	--	--
Well-AE	06/19/06		3,945	151	141	--	--
Well-AE	07/17/06		4,379	160	150	--	--
Well-AE	08/21/06		3,822	152	140	--	--
Well-AE	09/18/06		11,860	167	219	--	--
Well-AE	10/05/06		4,300	161	151	--	--
Well-AE	11/02/06		5,226	161	160	--	--
Well-AE	12/07/06		5,000	172	167	--	--
Well-AE	01/13/07		4,289	156	150	--	--
Well-AE	02/24/07		5,721	170	171	--	--
Well-AE	03/07/07		4,749	143	146	--	--
Well-AE	04/20/07		5,233	156	159	--	--
Well-AE	05/16/07		8,428	153	182	--	--
Well-AE	06/18/07		6,863	146	164	--	--
Well-AE	07/19/07		5,663	146	153	--	--
Well-AE	08/15/07		5,174	147	149	--	--
Well-AE	09/19/07		4,064	144	137	--	--
Well-AE	10/04/07		4,065	158	149	--	--
Well-AE	11/19/07		4,673	151	153	--	--
Well-AE	12/12/07		4,998	148	148	--	--
Well-AE	01/16/08		7,322	140	165	--	--
Well-AE	02/07/08		9,715	151	190	--	--
Well-AE	03/12/08		10,326	152	196	--	--
Well-AE	04/01/08		11,548	160	210	--	--
Well-AE	05/08/08		10,692	140	188	--	--
Well-AE	06/19/08		7,902	134	163	--	--
Well-AE	07/16/08		7,569	143	168	--	--
Well-AE	08/18/08		6,349	139	155	--	--
Well-AE	09/02/08		6,152	134	149	--	--
Well-AE	10/17/08		6,302	134	152	--	--
Well-AE	11/18/08		9,085	133	174	--	--
Well-AE	12/16/08		10,576	149	194	--	--
Well-AE	01/09/09		11,859	151	204	--	--
Well-AE	02/24/09		20,048	149	256	--	--
Well-AE	03/16/09		23,390	145	267	--	--
Well-AE	04/01/09		22,230	134	254	--	--
Well-AE	05/13/09		12,382	145	202	--	--
Well-AE	06/03/09		11,056	132	188	--	--
Well-AE	07/21/09		9,805	141	184	--	--
Well-AE	08/18/09		8,054	145	173	--	--
Well-AE	09/23/09		5,939	149	157	--	--
Well-AE	10/22/09		6,216	139	154	--	--
Well-AE	11/04/09		6,147	132	149	--	--
Well-AE	12/22/09		5,409	143	148	--	--
Well-AE	01/13/10		7,681	195	235	--	--
Well-AE	02/18/10		11,087	188	267	--	--
Well-AE	03/17/10		8,581	197	244	--	--
Well-AE	04/22/10		10,441	203	268	--	--
Well-AE	05/21/10		10,810	192	272	--	--
Well-AE	06/17/10		10,654	196	269	--	--
Well-AE	07/22/10		11,036	184	266	--	--
Well-AE	08/04/10		11,279	201	278	--	--
Well-AE	09/17/10		11,546	186	271	--	--
Well-AE	10/18/10		10,430	188	262	--	--
Well-AE	11/24/10		9,415	179	249	--	--
Well-AE	12/09/10		11,710	197	283	--	--
Well-AE	01/20/11		15,114	184	305	--	--
Well-AE	03/04/11	2	23,100	720	2,350	--	--
Well-AE	04/19/11	2	20,900	718	2,130	--	--
Well-AE	05/05/11	2	19,000	666	1,940	--	--



Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AE	06/16/11	2	14,100	565	1,450	--	--
Well-AE	07/13/11	2	14,100	585	1,460	--	--
Well-AE	09/10/11	2	12,500	577	1,300	--	--
Well-AE	10/20/11	2	12,900	523	1,320	--	--
Well-AE	11/17/11	2	11,000	564	1,150	--	--
Well-AF	10/07/03		< 142	142	86	0.38	227
Well-AF	10/27/03		242	145	90	--	--
Well-AF	11/10/03		330	144	91	--	--
Well-AF	11/24/03		245	146	91	0.43	545
Well-AF	12/10/03		343	140	89	--	--
Well-AF	12/22/03		302	141	89	--	--
Well-AF	01/06/04		366	142	90	--	--
Well-AF	01/20/04		262	143	89	--	--
Well-AF	02/02/04		295	144	91	--	--
Well-AF	03/18/04		150	144	88	--	--
Well-AF	04/20/04		247	141	88	0.48	654
Well-AF	05/03/04		308	141	89	--	--
Well-AF	06/25/04		301	144	90	0.523	766
Well-AF	07/13/04		270	145	91	--	--
Well-AF	08/16/04		177	156	96	--	--
Well-AF	09/23/04		241	147	92	--	--
Well-AF	10/12/04		< 151.07	151	90	--	--
Well-AF	11/16/04		168	153	94	--	--
Well-AF	12/21/04	1	< 3910.00	3,910	1,130	--	--
Well-AF	01/11/05	1	< 3910.00	3,910	1,180	--	--
Well-AF	02/08/05		< 154.00	154	94	0.644	843
Well-AF	03/14/05	1	< 4320.00	4,320	1,240	--	--
Well-AF	04/11/05		363	148	94	--	--
Well-AF	05/09/05		245	143	89	--	--
Well-AF	07/11/05		193	152	93	--	--
Well-AF	10/17/05		182	157	96	--	--
Well-AF	01/16/06		264	152	95	--	--
Well-AF	04/10/06		244	156	97	--	--
Well-AF	07/17/06		372	154	97	--	--
Well-AF	10/09/06		249	162	100	--	--
Well-AF	01/22/07		347	158	99	--	--
Well-AF	04/19/07		223	165	102	--	--
Well-AF	07/13/07		210	146	90	--	--
Well-AF	10/09/07		< 172.85	173	101	--	--
Well-AF	01/23/08		158	139	85	--	--
Well-AF	04/22/08		< 153.54	154	93	--	--
Well-AF	07/16/08		177	143	88	--	--
Well-AF	10/20/08		< 136.73	137	81	--	--
Well-AF	01/19/09		< 140.50	141	85	--	--
Well-AF	04/08/09		252	146	91	--	--
Well-AF	07/21/09		259	140	88	--	--
Well-AF	10/20/09		< 142.60	143	87	--	--
Well-AF	01/13/10		< 201.05	201	122	--	--
Well-AF	04/11/10		< 197.53	198	118	--	--
Well-AF	07/22/10		< 189.1	189	116	--	--
Well-AF	10/26/10		< 203.16	203	124	--	--
Well-AF	01/20/11		211	183	114	--	--
Well-AF	06/13/11	2	< 181	181	113	--	--
Well-AF	09/10/11	2	303	184	128	--	--
Well-AF	12/20/11	2	< 185	185	123	--	--
Well-AG-D	02/23/04		6,100	140	156	0.34	849
Well-AG-D	03/09/04		3,280	149	132	--	--
Well-AG-D	03/29/04		2,540	151	125	--	--
Well-AG-D	04/12/04		4,990	141	145	0.51	765
Well-AG-D	04/19/04		2,920	141	124	0.5	868
Well-AG-D	04/28/04		896	135	95	0.38	866
Well-AG-D	05/03/04	1	< 5590	5,590	--	--	--
Well-AG-D	05/10/04		1,490	140	106	0.56	885

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Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AG-D	05/24/04		1,290	152	109	--	--
Well-AG-D	05/28/04	1	< 4560	4,560	1,551	--	--
Well-AG-D	06/03/04		4,040	145	139	--	--
Well-AG-D	06/08/04		13,625	142	214	--	--
Well-AG-D	06/16/04		566	154	101	0.18	239
Well-AG-D	06/25/04		1,865	141	111	0.539	862
Well-AG-D	07/07/04		2,698	141	121	--	--
Well-AG-D	07/14/04		3,426	142	130	0.506	798
Well-AG-D	07/19/04		2,718	152	128	--	--
Well-AG-D	07/28/04		2,939	145	127	0.518	826
Well-AG-D	08/09/04		4,217	148	143	0.533	883
Well-AG-D	08/23/04		6,538	156	171	--	--
Well-AG-D	09/13/04		7,191	149	172	--	--
Well-AG-D	09/29/04		13,241	148	218	--	--
Well-AG-D	10/05/04		8,613	156	190	--	--
Well-AG-D	10/18/04		12,456	144	209	--	--
Well-AG-D	11/04/04		7,424	139	167	--	--
Well-AG-D	11/09/04	1	31,500	3,230	2,690	--	--
Well-AG-D	11/15/04		11,993	150	209	--	--
Well-AG-D	11/22/04		3,813	148	138	--	--
Well-AG-D	11/29/04	1	8,860	2,650	1,580	--	--
Well-AG-D	12/07/04	1	< 4170.00	4,170	1,510	--	--
Well-AG-D	12/14/04	1	6,910	3,230	1,500	--	--
Well-AG-D	12/21/04	1	< 3910.00	3,910	1,370	--	--
Well-AG-D	12/28/04	1	5,710	4,060	1,570	--	--
Well-AG-D	01/07/05		6,300	150	166	--	--
Well-AG-D	01/11/05		8,700	143	180	--	--
Well-AG-D	01/18/05		4,880	154	153	0.823	836
Well-AG-D	01/26/05		4,040	141	139	--	--
Well-AG-D	02/02/05		6,455	155	168	--	--
Well-AG-D	02/09/05		6,310	149	162	--	--
Well-AG-D	02/14/05		5,995	146	159	--	--
Well-AG-D	02/22/05		958	155	107	--	--
Well-AG-D	03/03/05		1,099	148	105	--	--
Well-AG-D	03/07/05		937	155	106	--	--
Well-AG-D	03/14/05		1,026	143	101	--	--
Well-AG-D	03/23/05		1,203	149	107	--	--
Well-AG-D	03/28/05		1,217	141	102	--	--
Well-AG-D	04/05/05		764	169	113	0.39	1060
Well-AG-D	04/18/05		938	162	111	0.344	971
Well-AG-D	05/03/05		1,380	149	109	--	958
Well-AG-D	05/16/05		798	144	98	--	876
Well-AG-D	06/06/05		883	148	102	--	929
Well-AG-D	07/11/05		884	149	102	--	858
Well-AG-D	08/01/05		762	144	97	--	865
Well-AG-D	09/06/05		1,170	149	106	--	--
Well-AG-D	10/11/05		901	147	101	--	--
Well-AG-D	11/01/05		995	150	104	--	--
Well-AG-D	12/08/05		712	146	98	--	--
Well-AG-D	01/09/06		525	156	101	--	--
Well-AG-D	02/06/06		575	177	114	--	--
Well-AG-D	03/06/06		620	159	104	--	--
Well-AG-D	04/03/06		270	156	97	--	--
Well-AG-D	05/01/06		486	152	99	--	--
Well-AG-D	06/05/06		685	155	102	--	--
Well-AG-D	07/11/06		763	162	108	--	--
Well-AG-D	08/07/06		720	153	102	--	--
Well-AG-D	09/18/06		663	158	104	--	--
Well-AG-D	10/06/06		413	160	101	--	--
Well-AG-D	11/15/06		671	160	106	--	--
Well-AG-D	12/08/06		496	198	126	--	--
Well-AG-D	01/14/07		543	159	103	--	--
Well-AG-D	02/20/07		204	158	97	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AG-D	03/14/07		201	179	110	--	--
Well-AG-D	04/19/07		391	175	111	--	--
Well-AG-D	05/03/07		633	141	94	--	--
Well-AG-D	06/18/07		716	142	95	--	--
Well-AG-D	07/12/07		490	151	97	--	--
Well-AG-D	08/16/07		702	147	98	--	--
Well-AG-D	09/20/07		608	144	95	--	--
Well-AG-D	10/17/07		2,172	149	118	--	--
Well-AG-D	11/20/07		1,491	150	113	--	--
Well-AG-D	12/20/07		905	137	96	--	--
Well-AG-D	01/23/08		1,019	154	106	--	--
Well-AG-D	02/20/08		1,116	153	107	--	--
Well-AG-D	03/13/08		1,141	137	99	--	--
Well-AG-D	04/01/08		1,153	149	106	--	--
Well-AG-D	05/15/08		1,724	135	105	--	--
Well-AG-D	06/24/08		1,974	136	109	--	--
Well-AG-D	07/17/08		1,536	138	104	--	--
Well-AG-D	08/18/08		1,205	134	98	--	--
Well-AG-D	09/03/08		1,120	134	96	--	--
Well-AG-D	10/17/08		1,367	132	99	--	--
Well-AG-D	11/21/08		882	131	91	--	--
Well-AG-D	12/23/08		1,070	134	96	--	--
Well-AG-D	01/20/09		1,023	133	95	--	--
Well-AG-D	02/18/09		499	141	92	--	--
Well-AG-D	03/16/09		2,182	143	115	--	--
Well-AG-D	04/22/09		1,094	146	103	--	--
Well-AG-D	05/13/09		909	144	99	--	--
Well-AG-D	06/03/09		747	135	92	--	--
Well-AG-D	07/22/09		462	141	91	--	--
Well-AG-D	08/19/09		1,235	154	110	--	--
Well-AG-D	09/24/09		1,110	138	99	--	--
Well-AG-D	10/21/09		999	139	98	--	--
Well-AG-D	11/04/09		1,134	132	95	--	--
Well-AG-D	12/29/09		1,084	143	101	--	--
Well-AG-D	01/19/10		1,024	200	141	--	--
Well-AG-D	03/18/10		1,196	187	137	--	--
Well-AG-D	04/14/10		1,246	186	138	--	--
Well-AG-D	05/21/10		1,358	209	153	--	--
Well-AG-D	06/21/10		1,339	184	138	--	--
Well-AG-D	07/22/10		1,263	187	139	--	--
Well-AG-D	08/11/10		1,377	189	142	--	--
Well-AG-D	09/09/10		839	180	126	--	--
Well-AG-D	10/26/10		1,459	186	142	--	--
Well-AG-D	11/29/10		1,391	191	145	--	--
Well-AG-D	12/21/10		1,283	149	107	--	--
Well-AG-D	01/20/11		1,328	184	138	--	--
Well-AG-D	03/29/11	2	1,260	192	182	--	--
Well-AG-D	04/19/11	2	1,100	192	171	--	--
Well-AG-D	05/26/11	2	1,120	191	173	--	--
Well-AG-D	06/13/11	2	1,130	190	174	--	--
Well-AG-D	07/29/11	2	993	207	172	--	--
Well-AG-D	08/31/11	2	4,270	337	477	--	--
Well-AG-D	09/27/11	2	1,120	206	179	--	--
Well-AG-D	10/07/11	2	1,020	198	170	--	--
Well-AG-D	11/03/11	2	1,170	202	183	--	--
Well-AG-S	02/23/04		2,320	138	115	0.04	348
Well-AG-S	03/09/04		3,000	146	126	--	--
Well-AG-S	03/29/04		4,810	153	150	--	--
Well-AG-S	04/12/04		6,620	143	161	0.26	319
Well-AG-S	04/20/04		8,060	142	173	0.23	338
Well-AG-S	04/28/04		10,300	136	188	0.19	312
Well-AG-S	05/10/04		9,580	139	184	--	--
Well-AG-S	05/24/04		9,390	147	189	--	--



Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AG-S	05/26/04	1	11,300	5,780	2,281	--	--
Well-AG-S	05/27/04	1	18,300	4,563	2,383	--	--
Well-AG-S	05/28/04	1	14,400	4,563	2,193	--	--
Well-AG-S	06/03/04		17,329	150	242	--	--
Well-AG-S	06/08/04		13,226	154	220	--	--
Well-AG-S	06/16/04		17,244	145	237	0.247	286
Well-AG-S	06/25/04		20,049	152	263	0.271	300
Well-AG-S	07/07/04		13,528	147	217	--	--
Well-AG-S	07/14/04		17,361	149	241	0.243	323
Well-AG-S	07/19/04		12,601	149	210	--	--
Well-AG-S	07/26/04	1	21,300	3,230	2,230	--	341
Well-AG-S	07/28/04		15,617	147	232	0.231	315
Well-AG-S	07/30/04	1	26,700	4,850	2,700	--	365
Well-AG-S	08/09/04		21,380	144	263	0.241	321
Well-AG-S	08/23/04	1	20,300	3,025	2,176	--	--
Well-AG-S	09/13/04		10,430	151	200	--	--
Well-AG-S	09/29/04		7,074	160	179	--	--
Well-AG-S	10/05/04		11,088	154	207	--	--
Well-AG-S	10/18/04		16,353	143	233	--	--
Well-AG-S	11/04/04		15,313	150	231	--	--
Well-AG-S	11/09/04	1	22,100	3,230	2,320	--	--
Well-AG-S	11/15/04	1	21,200	3,910	2,390	--	--
Well-AG-S	11/22/04	1	20,300	4,220	2,350	--	--
Well-AG-S	11/29/04	1	21,300	2,650	2,220	--	--
Well-AG-S	12/07/04	1	23,700	4,170	2,480	--	--
Well-AG-S	12/14/04	1	23,300	3,230	2,330	--	--
Well-AG-S	12/21/04	1	23,700	4,020	2,700	--	--
Well-AG-S	12/28/04	1	22,200	4,060	2,380	--	--
Well-AG-S	01/07/05	1	28,800	3,910	2,610	--	--
Well-AG-S	01/11/05	1	33,200	3,910	2,770	--	--
Well-AG-S	01/18/05	1	29,400	3,950	2,630	--	--
Well-AG-S	01/26/05		21,600	149	267	--	--
Well-AG-S	02/02/05	1	31,200	2,650	2,660	--	--
Well-AG-S	02/09/05	1	27,200	4,660	2,710	--	--
Well-AG-S	02/14/05	1	24,300	3,910	2,480	--	--
Well-AG-S	02/22/05		11,929	154	211	--	--
Well-AG-S	03/03/05		6,944	158	174	--	--
Well-AG-S	03/07/05		7,239	136	164	--	--
Well-AG-S	03/14/05		7,693	143	171	--	--
Well-AG-S	03/23/05		9,248	147	187	--	--
Well-AG-S	03/28/05		9,399	141	183	--	--
Well-AG-S	04/05/05		9,357	143	187	0.175	240
Well-AG-S	04/18/05		3,472	152	138	0.144	426
Well-AG-S	05/03/05		6,858	151	169	--	236
Well-AG-S	05/16/05		2,493	146	121	--	192
Well-AG-S	06/06/05		1,007	148	103	--	567
Well-AG-S	07/11/05		2,022	150	119	--	582
Well-AG-S	08/01/05		3,537	151	136	--	606
Well-AG-S	09/06/05		4,295	151	144	--	--
Well-AG-S	10/11/05		6,309	146	160	--	--
Well-AG-S	11/01/05		4,043	149	139	--	--
Well-AG-S	12/08/05		349	150	95	--	--
Well-AG-S	01/09/06		744	159	106	--	--
Well-AG-S	02/06/06		1,551	165	121	--	--
Well-AG-S	03/06/06		1,926	157	120	--	--
Well-AG-S	04/03/06		1,616	159	118	--	--
Well-AG-S	05/01/06		1,150	149	106	--	--
Well-AG-S	06/05/06		639	158	103	--	--
Well-AG-S	07/11/06		499	162	104	--	--
Well-AG-S	08/07/06		453	158	101	--	--
Well-AG-S	09/18/06		403	159	101	--	--
Well-AG-S	10/06/06		339	165	103	--	--
Well-AG-S	11/15/06		602	158	104	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AG-S	12/08/06		487	194	123	--	--
Well-AG-S	01/14/07		513	157	102	--	--
Well-AG-S	01/22/07	1	< 4610.00	4,610	--	--	--
Well-AG-S	02/20/07		406	152	97	--	--
Well-AG-S	03/14/07		336	190	118	--	--
Well-AG-S	04/19/07		363	160	101	--	--
Well-AG-S	05/03/07		201	142	88	--	--
Well-AG-S	06/18/07		888	141	97	--	--
Well-AG-S	07/12/07		645	150	99	--	--
Well-AG-S	08/16/07		1,101	144	102	--	--
Well-AG-S	09/20/07		671	146	97	--	--
Well-AG-S	11/20/07		304	142	90	--	--
Well-AG-S	12/20/07		343	137	87	--	--
Well-AG-S	01/23/08		291	151	94	--	--
Well-AG-S	02/20/08		432	151	96	--	--
Well-AG-S	03/13/08		341	139	88	--	--
Well-AG-S	04/01/08		320	144	91	--	--
Well-AG-S	05/15/08		383	147	93	--	--
Well-AG-S	06/24/08		633	136	91	--	--
Well-AG-S	07/17/08		653	138	92	--	--
Well-AG-S	07/21/08	1	< 4780.00	4,780	--	--	--
Well-AG-S	08/18/08		590	133	88	--	--
Well-AG-S	09/03/08		537	134	88	--	--
Well-AG-S	10/17/08		1,074	133	95	--	--
Well-AG-S	11/21/08		1,580	131	101	--	--
Well-AG-S	12/23/08		2,405	143	119	--	--
Well-AG-S	01/20/09		3,107	140	125	--	--
Well-AG-S	02/18/09		1,936	133	107	--	--
Well-AG-S	03/16/09		1,970	143	112	--	--
Well-AG-S	04/22/09		1,236	142	103	--	--
Well-AG-S	05/13/09		913	143	99	--	--
Well-AG-S	06/03/09		773	134	92	--	--
Well-AG-S	07/22/09		620	137	91	--	--
Well-AG-S	08/19/09		1,230	150	107	--	--
Well-AG-S	09/24/09		1,368	135	100	--	--
Well-AG-S	10/21/09		1,240	140	102	--	--
Well-AG-S	11/04/09		1,337	132	98	--	--
Well-AG-S	12/29/09		1,007	144	100	--	--
Well-AG-S	01/19/10		829	201	137	--	--
Well-AG-S	03/17/10		686	187	126	--	--
Well-AG-S	04/14/10		879	186	130	--	--
Well-AG-S	05/21/10		680	199	133	--	--
Well-AG-S	06/21/10		767	186	128	--	--
Well-AG-S	07/22/10		730	186	127	--	--
Well-AG-S	08/11/10		814	188	130	--	--
Well-AG-S	09/09/10		1,331	188	140	--	--
Well-AG-S	10/26/10		690	187	127	--	--
Well-AG-S	11/29/10		797	179	125	--	--
Well-AG-S	12/21/10		730	149	100	--	--
Well-AG-S	01/20/11		763	205	138	--	--
Well-AG-S	04/19/11	2	600	186	143	--	--
Well-AG-S	05/26/11	2	656	175	141	--	--
Well-AG-S	06/13/11	2	717	182	150	--	--
Well-AG-S	07/29/11	2	650	191	147	--	--
Well-AG-S	08/31/11	2	4,170	333	467	--	--
Well-AG-S	09/27/11	2	902	188	158	--	--
Well-AG-S	10/07/11	2	894	190	159	--	--
Well-AG-S	11/03/11	2	1,010	190	168	--	--
Well-AG-S	12/13/11	2	996	193	166	--	--
Well-AH-D	02/23/04		548	142	93	0.21	309
Well-AH-D	03/08/04		620	142	95	--	--
Well-AH-D	03/29/04		522	142	93	0.31	290
Well-AH-D	04/19/04		563	140	93	0.19	241

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AH-D	05/03/04		637	142	95	--	--
Well-AH-D	06/03/04		619	157	103	--	--
Well-AH-D	06/16/04	1	< 5670	5,670	1,571	--	--
Well-AH-D	07/19/04		552	147	97	0.191	260
Well-AH-D	08/23/04		586	140	93	--	--
Well-AH-D	09/13/04		557	151	99	--	--
Well-AH-D	09/29/04		517	155	101	--	--
Well-AH-D	10/18/04		308	144	90	--	--
Well-AH-D	11/15/04	1	< 3910.00	3,910	1,328	--	--
Well-AH-D	12/20/04	1	< 3910.00	3,910	1,130	--	--
Well-AH-D	01/11/05		487	154	100	0.235	250
Well-AH-D	02/15/05		493	147	96	--	--
Well-AH-D	03/08/05		529	146	96	--	--
Well-AH-D	04/18/05		407	150	96	0.298	673
Well-AH-D	05/16/05		492	146	95	--	654
Well-AH-D	06/07/05		610	148	98	--	1020
Well-AH-D	07/11/05		665	143	96	--	--
Well-AH-D	08/02/05		599	145	96	--	--
Well-AH-D	09/07/05		522	151	98	--	--
Well-AH-D	10/17/05		361	156	99	--	--
Well-AH-D	11/02/05		403	152	97	--	--
Well-AH-D	12/09/05		257	151	94	--	--
Well-AH-D	01/10/06		260	151	94	--	--
Well-AH-D	02/06/06		264	165	102	--	--
Well-AH-D	03/06/06		318	156	98	--	--
Well-AH-D	04/10/06		303	155	97	--	--
Well-AH-D	05/01/06		439	152	98	--	--
Well-AH-D	06/05/06		297	157	98	--	--
Well-AH-D	07/17/06		321	160	100	--	--
Well-AH-D	08/08/06		330	157	98	--	--
Well-AH-D	09/06/06		322	161	101	--	--
Well-AH-D	10/06/06		278	162	101	--	--
Well-AH-D	11/02/06		430	152	97	--	--
Well-AH-D	12/19/06		209	159	98	--	--
Well-AH-D	01/22/07		333	159	100	--	--
Well-AH-D	02/20/07		< 177.38	177	108	--	--
Well-AH-D	03/14/07		< 155.08	155	94	--	--
Well-AH-D	04/19/07		270	168	104	--	--
Well-AH-D	05/15/07		< 141.87	142	86	--	--
Well-AH-D	06/18/07		343	141	89	--	--
Well-AH-D	07/13/07		221	149	92	--	--
Well-AH-D	08/15/07		1,089	148	104	--	--
Well-AH-D	09/19/07		376	145	92	--	--
Well-AH-D	10/03/07		1,311	151	109	--	--
Well-AH-D	11/19/07		920	177	119	--	--
Well-AH-D	12/12/07		973	138	97	--	--
Well-AH-D	01/23/08		1,104	152	106	--	--
Well-AH-D	02/07/08		1,209	150	107	--	--
Well-AH-D	03/12/08		1,524	146	109	--	--
Well-AH-D	04/01/08		1,799	148	113	--	--
Well-AH-D	05/29/08		1,675	136	105	--	--
Well-AH-D	06/20/08		1,265	136	99	--	--
Well-AH-D	07/07/08		1,010	139	98	--	--
Well-AH-D	08/18/08		729	131	89	--	--
Well-AH-D	09/22/08		751	141	95	--	--
Well-AH-D	10/17/08		741	137	93	--	--
Well-AH-D	11/18/08		809	132	91	--	--
Well-AH-D	12/16/08		489	133	87	--	--
Well-AH-D	01/09/09		690	136	92	--	--
Well-AH-D	02/18/09		280	147	92	--	--
Well-AH-D	03/16/09		1,440	143	106	--	--
Well-AH-D	04/22/09		298	140	88	--	--
Well-AH-D	05/11/09		644	137	92	--	--



Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AH-D	06/03/09		415	132	85	--	--
Well-AH-D	07/21/09		< 140.69	141	85	--	--
Well-AH-D	08/04/09		< 145.09	145	87	--	--
Well-AH-D	09/02/09		< 135.87	136	82	--	--
Well-AH-D	10/08/09		198	142	87	--	--
Well-AH-D	11/04/09		209	133	83	--	--
Well-AH-D	12/29/09		293	149	93	--	--
Well-AH-D	01/13/10		294	199	125	--	--
Well-AH-D	02/18/10		307	193	121	--	--
Well-AH-D	03/17/10		226	187	117	--	--
Well-AH-D	04/12/10		422	187	121	--	--
Well-AH-D	05/21/10		740	210	141	--	--
Well-AH-D	06/21/10		403	185	119	--	--
Well-AH-D	07/16/10		439	190	123	--	--
Well-AH-D	08/09/10		571	188	125	--	--
Well-AH-D	09/13/10		493	185	122	--	--
Well-AH-D	10/11/10		445	189	123	--	--
Well-AH-D	11/23/10		717	178	123	--	--
Well-AH-D	12/02/10		1,104	182	133	--	--
Well-AH-D	01/20/11		819	205	140	--	--
Well-AH-D	03/04/11	2	613	170	136	--	--
Well-AH-D	04/07/11	2	450	186	136	--	--
Well-AH-D	05/05/11	2	873	176	151	--	--
Well-AH-D	06/16/11	2	2,720	260	320	--	--
Well-AH-D	07/13/11	2	2,340	255	287	--	--
Well-AH-D	08/31/11	2	5,700	380	615	--	--
Well-AH-D	09/15/11	2	1,820	245	243	--	--
Well-AH-D	10/07/11	2	1,040	198	170	--	--
Well-AH-D	11/17/11	2	1,320	196	188	--	--
Well-AH-D	12/13/11	2	1,080	200	174	--	--
Well-AH-S	02/23/04		899	143	99	0.14	135
Well-AH-S	03/08/04		894	142	98	--	--
Well-AH-S	03/29/04		878	141	97	0.27	56
Well-AH-S	04/20/04		932	141	98	0.25	67
Well-AH-S	05/03/04		908	141	98	--	--
Well-AH-S	06/03/04		759	149	100	--	--
Well-AH-S	06/16/04		835	142	97	0.263	48
Well-AH-S	07/19/04		816	151	103	0.204	37.9
Well-AH-S	08/23/04		752	155	105	--	--
Well-AH-S	09/13/04		512	144	94	--	--
Well-AH-S	09/29/04		533	149	97	--	--
Well-AH-S	10/18/04		420	159	101	--	--
Well-AH-S	11/15/04	1	< 3910.00	3,910	1,235	--	--
Well-AH-S	12/20/04	1	< 3910.00	3,910	1,130	--	--
Well-AH-S	01/11/05		658	163	107	0.446	61.3
Well-AH-S	02/15/05		633	146	97	--	--
Well-AH-S	03/08/05		614	147	97	--	--
Well-AH-S	04/18/05		319	146	92	0.138	216
Well-AH-S	05/16/05		249	150	93	--	277
Well-AH-S	06/07/05		238	147	91	--	151
Well-AH-S	07/11/05		293	144	91	--	--
Well-AH-S	08/02/05		241	147	92	--	--
Well-AH-S	09/07/05		162	149	91	--	--
Well-AH-S	10/17/05		< 152.80	153	92	--	--
Well-AH-S	11/02/05		298	151	94	--	--
Well-AH-S	12/09/05		218	148	91	--	--
Well-AH-S	01/10/06		251	153	95	--	--
Well-AH-S	02/06/06		213	170	105	--	--
Well-AH-S	03/06/06		< 157.98	158	94	--	--
Well-AH-S	04/10/06		< 154.59	155	92	--	--
Well-AH-S	05/01/06		163	151	92	--	--
Well-AH-S	06/05/06		190	156	96	--	--
Well-AH-S	07/17/06		< 171.28	171	104	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AH-S	08/08/06		178	160	98	--	--
Well-AH-S	09/06/06		211	157	97	--	--
Well-AH-S	10/06/06		238	159	99	--	--
Well-AH-S	11/02/06		366	154	97	--	--
Well-AH-S	12/19/06		252	163	101	--	--
Well-AH-S	01/22/07		384	155	98	--	--
Well-AH-S	02/20/07		242	151	93	--	--
Well-AH-S	03/14/07		248	149	93	--	--
Well-AH-S	04/19/07		< 161.50	162	98	--	--
Well-AH-S	05/15/07		154	137	84	--	--
Well-AH-S	06/18/07		236	142	88	--	--
Well-AH-S	07/13/07		1,193	147	105	--	--
Well-AH-S	08/15/07		< 145.09	145	88	--	--
Well-AH-S	09/19/07		< 143.80	144	88	--	--
Well-AH-S	10/03/07		195	164	101	--	--
Well-AH-S	11/19/07		2,790	190	152	--	--
Well-AH-S	12/12/07		5,579	142	150	--	--
Well-AH-S	01/23/08		1,322	152	109	--	--
Well-AH-S	02/07/08		1,365	139	103	--	--
Well-AH-S	03/12/08		1,377	145	107	--	--
Well-AH-S	04/01/08		400	142	91	--	--
Well-AH-S	05/29/08		274	148	92	--	--
Well-AH-S	06/20/08		546	136	89	--	--
Well-AH-S	07/07/08		434	138	89	--	--
Well-AH-S	08/18/08		488	132	87	--	--
Well-AH-S	09/22/08		620	128	86	--	--
Well-AH-S	10/17/08		738	133	91	--	--
Well-AH-S	11/18/08		1,345	131	98	--	--
Well-AH-S	12/16/08		858	139	96	--	--
Well-AH-S	01/09/09		749	137	93	--	--
Well-AH-S	02/18/09		< 157.07	157	96	--	--
Well-AH-S	03/16/09		567	144	94	--	--
Well-AH-S	04/22/09		421	142	91	--	--
Well-AH-S	05/11/09		402	137	88	--	--
Well-AH-S	06/03/09		< 131.64	132	77	--	--
Well-AH-S	07/21/09		< 142.65	143	86	--	--
Well-AH-S	08/04/09		< 142.11	142	85	--	--
Well-AH-S	09/02/09		< 134.32	134	79	--	--
Well-AH-S	10/08/09		< 134.70	135	80	--	--
Well-AH-S	11/04/09		< 131.57	132	77	--	--
Well-AH-S	12/29/09		< 152.72	153	90	--	--
Well-AH-S	01/13/10		< 198.59	199	118	--	--
Well-AH-S	02/18/10		459	195	126	--	--
Well-AH-S	03/17/10		265	188	118	--	--
Well-AH-S	04/12/10		290	188	119	--	--
Well-AH-S	05/21/10		787	198	135	--	--
Well-AH-S	06/21/10		623	185	124	--	--
Well-AH-S	07/16/10		404	186	120	--	--
Well-AH-S	08/09/10		499	187	123	--	--
Well-AH-S	09/13/10		881	204	141	--	--
Well-AH-S	10/11/10		481	187	122	--	--
Well-AH-S	11/23/10		311	179	114	--	--
Well-AH-S	12/02/10		181	145	89	--	--
Well-AH-S	01/20/11		588	184	123	--	--
Well-AH-S	03/04/11	2	646	170	138	--	--
Well-AH-S	03/29/11	2	815	170	146	--	--
Well-AH-S	04/07/11	2	556	179	138	--	--
Well-AH-S	05/05/11	2	473	178	134	--	--
Well-AH-S	06/16/11	2	335	180	129	--	--
Well-AH-S	07/13/11	2	< 190	190	125	--	--
Well-AH-S	08/31/11	2	2,510	266	304	--	--
Well-AH-S	09/15/11	2	1,260	211	190	--	--
Well-AH-S	10/07/11	2	1,430	220	205	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AH-S	11/17/11	2	1,470	237	215	--	--
Well-AH-S	12/13/11	2	1,200	207	185	--	--
Well-AI	02/02/04	1	< 5780	5,780	--	--	--
Well-AI	02/26/04		4,360	140	138	0.05	8
Well-AI	03/11/04		4,370	145	141	--	--
Well-AI	03/30/04		3,550	143	131	--	--
Well-AI	05/04/04		11,800	140	200	0.17	15.7
Well-AI	05/11/04	1	40,800	5,392	3,466	--	--
Well-AI	05/19/04	1	44,100	5,780	3,439	< 3.3	47
Well-AI	06/03/04	1	45,900	4,563	3,360	--	--
Well-AI	07/19/04	1	30,200	2,870	2,550	--	--
Well-AI	07/28/04	1	29,900	3,790	2,650	--	--
Well-AI	08/02/04	1	31,100	3,320	2,670	--	--
Well-AI	08/09/04	1	35,600	4,850	3,030	--	28
Well-AI	08/16/04	1	41,000	3,320	3,000	--	--
Well-AI	08/25/04	1	43,200	3,030	3,050	--	--
Well-AI	12/27/04		13,120	153	222	--	--
Well-AI	04/19/05		13,120	153	222	--	--
Well-AI	05/10/05	1	31,100	3,620	2,640	--	--
Well-AI	06/21/05	1	34,400	3,750	2,820	--	--
Well-AI	07/12/05		14,060	155	226	--	--
Well-AI	08/15/05		7,683	147	172	--	--
Well-AI	09/06/05		6,669	150	166	--	--
Well-AI	10/10/05		5,081	148	151	--	--
Well-AI	11/14/05		4,535	152	148	--	--
Well-AI	12/20/05		3,602	156	139	--	--
Well-AI	01/17/06	1	3,900	3,550	1,430	--	--
Well-AI	02/21/06		2,730	149	126	--	--
Well-AI	03/20/06	1	4,200	3,730	1,530	--	--
Well-AI	04/10/06	1	< 4720.00	4,720	--	--	--
Well-AI	04/11/06		5,194	157	156	--	--
Well-AI	05/16/06		2,354	149	122	--	--
Well-AI	06/19/06		2,082	162	126	--	--
Well-AI	07/18/06		1,572	150	112	--	--
Well-AI	07/19/06	1	< 4890.00	4,890	--	--	--
Well-AI	08/08/06		1,621	160	118	--	--
Well-AI	09/18/06		1,782	157	119	--	--
Well-AI	10/10/06		2,110	159	124	--	--
Well-AI	11/01/06		1,543	157	116	--	--
Well-AI	12/18/06		2,495	178	142	--	--
Well-AI	12/19/06	1	< 4840.00	4,840	--	--	--
Well-AI	01/13/07		2,784	149	127	--	--
Well-AI	02/06/07		2,393	157	127	--	--
Well-AI	03/08/07		2,100	149	119	--	--
Well-AI	04/20/07		2,677	161	134	--	--
Well-AI	05/15/07		2,556	140	119	--	--
Well-AI	06/18/07		2,867	142	123	--	--
Well-AI	07/18/07		2,784	145	123	--	--
Well-AI	08/15/07		3,204	143	128	--	--
Well-AI	09/20/07		3,137	150	131	--	--
Well-AI	10/03/07		3,360	149	132	--	--
Well-AI	11/14/07		3,173	154	138	--	--
Well-AI	12/12/07		2,902	138	121	--	--
Well-AI	01/17/08		2,933	151	128	--	--
Well-AI	02/06/08		2,920	138	122	--	--
Well-AI	03/18/08		3,035	149	129	--	--
Well-AI	04/02/08		3,255	151	132	--	--
Well-AI	05/08/08		3,339	146	129	--	--
Well-AI	06/19/08		2,708	136	117	--	--
Well-AI	07/07/08		2,934	128	116	--	--
Well-AI	08/06/08		2,005	140	111	--	--
Well-AI	09/02/08		2,478	136	114	--	--
Well-AI	11/19/08		3,732	133	127	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AI	12/15/08		5,220	151	152	--	--
Well-AI	01/08/09		4,312	139	136	--	--
Well-AI	02/11/09		4,747	155	149	--	--
Well-AI	03/10/09		3,957	134	129	--	--
Well-AI	04/08/09		25,971	142	282	--	--
Well-AI	05/11/09		7,007	146	163	--	--
Well-AI	06/08/09		10,938	136	190	--	--
Well-AI	07/21/09		9,743	134	179	--	--
Well-AI	08/18/09		8,722	143	177	--	--
Well-AI	09/02/09		4,720	147	144	--	--
Well-AI	10/08/09		6,468	139	156	--	--
Well-AI	11/17/09		6,988	132	156	--	--
Well-AI	12/16/09		3,292	152	132	--	--
Well-AI	01/12/10		12,086	195	282	--	--
Well-AI	02/18/10		10,835	187	263	--	--
Well-AI	03/10/10		16,251	187	313	--	--
Well-AI	04/12/10		10,273	188	258	--	--
Well-AI	05/14/10		11,524	187	275	--	--
Well-AI	06/18/10		12,246	196	285	--	--
Well-AI	07/09/10		9,797	183	252	--	--
Well-AI	08/11/10		9,038	202	255	--	--
Well-AI	09/13/10		7,961	187	234	--	--
Well-AI	10/11/10		6,432	189	218	--	--
Well-AI	11/10/10		8,206	198	246	--	--
Well-AI	12/02/10		2,213	144	116	--	--
Well-AI	01/13/11		7,337	183	226	--	--
Well-AI	03/25/11	2	4,380	326	485	--	--
Well-AI	04/19/11	2	4,430	328	490	--	--
Well-AI	05/10/11	2	6,430	393	688	--	--
Well-AI	06/10/11	2	6,400	382	683	--	--
Well-AI	07/20/11	2	6,910	415	737	--	--
Well-AI	09/01/11	2	4,300	334	479	--	--
Well-AI	10/20/11	2	4,650	323	507	--	--
Well-AI	11/17/11	2	13,600	630	1,420	--	--
Well-AI	12/08/11	2	2,060	235	258	--	--
Well-AJ	02/25/04		1,150	142	102	0.62	616
Well-AJ	03/09/04		1,040	140	99	0.68	650
Well-AJ	03/30/04		1,080	146	103	0.62	642
Well-AJ	04/19/04		1,190	139	101	0.67	621
Well-AJ	05/10/04		1,240	142	103	--	--
Well-AJ	05/24/04		1,270	158	113	--	--
Well-AJ	06/16/04		1,495	148	111	--	--
Well-AJ	07/13/04		2,193	142	116	--	--
Well-AJ	07/20/04		1,525	152	113	--	--
Well-AJ	08/16/04		1,677	141	110	--	--
Well-AJ	09/08/04		4,254	152	146	--	--
Well-AJ	10/18/04	1	54,800	3,230	3,560	--	--
Well-AJ	11/16/04	1	193,000	3,910	6,440	--	--
Well-AJ	12/28/04	1	144,000	2,820	5,450	--	--
Well-AJ	01/12/05	1	366,000	3,910	8,540	--	--
Well-AJ	02/14/05	1	331,000	3,910	8,260	--	--
Well-AJ	03/02/05	1	218,000	3,670	6,710	--	--
Well-AJ	03/07/05	1	155,000	3,490	5,670	--	--
Well-AJ	03/14/05	1	172,000	4,320	6,120	--	--
Well-AJ	03/23/05	1	70,400	3,790	3,720	--	--
Well-AJ	03/28/05	1	152,000	6,280	5,880	--	--
Well-AJ	04/18/05	1	139,000	4,420	5,490	--	--
Well-AJ	05/18/05	1	122,000	3,490	4,900	--	--
Well-AJ	08/15/05	1	68,500	3,905	3,877	--	--
Well-AJ	10/17/05	1	182,000	3,790	6,330	--	--
Well-AJ	11/15/05	1	62,300	3,430	3,770	--	--
Well-AJ	12/12/05	1	143,000	4,370	5,750	--	--
Well-AJ	01/24/06	1	51,400	3,550	3,520	--	--



Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AJ	02/23/06	1	42,200	3,920	3,280	--	--
Well-AJ	03/21/06	1	66,200	3,730	4,120	--	--
Well-AJ	04/17/06	1	53,200	5,510	4,030	--	--
Well-AJ	05/15/06	1	44,400	5,000	3,780	--	--
Well-AJ	07/24/06	1	41,100	5,470	3,500	--	--
Well-AJ	08/22/06	1	26,600	2,520	1,340	--	--
Well-AJ	06/19/07		34,983	150	329	--	--
Well-AJ	08/28/08		4,641	140	139	--	--
Well-AJ	04/29/09		5,067	148	148	--	--
Well-AJ	05/11/09		22,215	144	259	--	--
Well-AJ	06/10/09		34,593	135	316	--	--
Well-AJ	04/13/10		12,437	182	278	--	--
Well-AJ	05/25/10		26,368	189	398	--	--
Well-AJ	06/09/10		27,655	195	407	--	--
Well-AJ	09/16/10		6,393	186	215	--	--
Well-AJ	10/12/10		12,283	188	281	--	--
Well-AJ	12/16/10		19,991	182	344	--	--
Well-AJ	01/31/11		21,984	187	364	--	--
Well-AJ	03/22/11	2	21,700	698	2,210	--	--
Well-AJ	05/05/11	2	21,200	693	2,160	--	--
Well-AJ	07/13/11	2	14,600	598	1,500	--	--
Well-AJ	09/10/11	2	21,200	714	2,160	--	--
Well-AL	02/25/04		< 141	141	83	0.21	60
Well-AL	03/09/04		< 147	147	86	0.2	55
Well-AL	03/30/04		< 146	146	86	0.22	63
Well-AL	04/19/04		< 141	141	85	0.3	62
Well-AL	05/19/04		< 151	151	89	--	--
Well-AL	06/16/04		< 141.00	141	85	--	--
Well-AL	07/13/04		< 141.00	141	85	--	--
Well-AL	07/28/04		< 146.54	147	88	--	--
Well-AL	08/16/04		< 149.52	150	91	--	--
Well-AL	09/08/04		< 153.40	153	91	--	--
Well-AL	10/12/04		< 146.38	146	85	--	--
Well-AL	11/16/04	1	< 3910.00	3,910	1,126	--	--
Well-AL	12/21/04	1	< 3910.00	3,910	1,130	--	--
Well-AL	01/11/05		< 157.00	157	92	--	--
Well-AL	02/08/05		< 157.00	157	92	0.23	73.5
Well-AL	03/14/05		< 146.00	146	87	--	--
Well-AL	04/11/05		< 158.00	158	93	--	--
Well-AL	05/09/05		< 150.00	150	88	--	--
Well-AL	07/11/05		< 154.00	154	90	--	--
Well-AL	10/10/05		< 147.84	148	89	--	--
Well-AL	01/23/06		< 152.80	153	91	--	--
Well-AL	04/10/06		< 165.43	165	99	--	--
Well-AL	07/17/06		< 154.15	154	92	--	--
Well-AL	10/09/06		< 161.78	162	97	--	--
Well-AL	01/13/07		< 153.10	153	91	--	--
Well-AL	04/19/07		243	158	98	--	--
Well-AL	07/19/07		203	146	90	--	--
Well-AL	10/09/07		< 174.93	175	103	--	--
Well-AL	01/23/08		366	151	96	--	--
Well-AL	04/22/08		375	154	98	--	--
Well-AL	07/16/08		426	142	91	--	--
Well-AL	10/20/08		396	139	89	--	--
Well-AL	01/19/09		568	146	96	--	--
Well-AL	04/08/09		441	141	91	--	--
Well-AL	04/08/09	2	433	163	119	--	--
Well-AL	06/10/09		452	132	86	--	--
Well-AL	07/21/09		598	151	99	--	--
Well-AL	10/20/09		686	136	92	--	--
Well-AL	01/13/10		828	199	136	--	--
Well-AL	03/10/10		1,048	186	133	--	--
Well-AL	04/11/10		855	185	129	--	--

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Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AL	06/17/10		703	184	125	--	--
Well-AL	06/28/10		853	185	129	--	--
Well-AL	07/09/10		815	189	130	--	--
Well-AL	08/09/10		748	188	129	--	--
Well-AL	09/17/10		583	186	125	--	--
Well-AL	10/18/10		624	191	128	--	--
Well-AL	01/20/11		448	204	131	--	--
Well-AL	03/04/11	2	516	172	133	--	--
Well-AL	06/13/11	2	476	180	136	--	--
Well-AL	08/05/11	2	2,310	272	291	--	--
Well-AL	08/31/11	2	1,480	217	207	--	--
Well-AL	09/10/11	2	466	183	135	--	--
Well-AL	10/07/11	2	446	181	133	--	--
Well-AL	11/17/11	2	479	174	132	--	--
Well-AL	12/20/11	2	545	189	146	--	--
Well-AM	02/02/04	1	425,000	--	--	--	--
Well-AM	02/26/04	1	273,000	--	--	--	--
Well-AM	03/11/04	1	234,000	--	--	--	--
Well-AM	04/08/04	1	196,000	5,822	6,425	--	--
Well-AM	05/06/04	1	150,000	5,589	5,807	--	--
Well-AM	05/20/04	1	149,000	4,563	5,651	< 3.3	5.9
Well-AM	06/10/04	1	156,000	4,974	5,832	< 3.33	4.8
Well-AM	07/20/04	1	128,000	2,870	5,020	--	--
Well-AM	08/17/04	1	137,000	3,320	5,270	--	--
Well-AM	09/14/04	1	139,000	4,560	5,380	--	5.8
Well-AM	10/25/04	1	124,000	3,030	5,080	--	--
Well-AM	11/23/04	1	116,000	4,220	4,940	--	--
Well-AM	12/27/04	1	103,000	4,060	4,590	--	--
Well-AM	01/12/05	1	108,000	3,910	4,660	--	--
Well-AM	02/22/05	1	89,300	3,550	4,340	--	--
Well-AM	03/15/05	1	76,900	4,320	4,100	--	--
Well-AM	04/19/05	1	54,200	4,420	3,570	--	--
Well-AM	05/17/05	1	58,400	3,490	3,480	--	--
Well-AM	06/21/05	1	53,800	3,750	3,420	--	--
Well-AM	07/11/05	1	43,200	3,750	3,110	--	--
Well-AM	08/15/05	1	38,100	3,905	2,979	--	--
Well-AM	09/20/05	1	87,500	4,563	4,478	--	--
Well-AM	10/10/05	1	34,200	3,790	2,930	--	--
Well-AM	11/14/05	1	43,100	3,430	3,210	--	--
Well-AM	12/20/05	1	25,400	3,430	2,580	--	--
Well-AM	01/23/06	1	28,700	3,550	2,750	--	--
Well-AM	02/23/06	1	72,200	3,920	4,200	--	--
Well-AM	03/21/06	1	429,000	3,730	10,100	--	--
Well-AM	04/11/06	1	732,000	4,720	13,700	--	--
Well-AM	05/16/06	1	866,000	5,000	15,100	--	--
Well-AM	06/20/06	1	554,000	4,890	12,100	--	--
Well-AM	07/17/06	1	91,000	4,670	5,130	--	--
Well-AM	07/21/06	2	37,500	--	--	--	--
Well-AM	08/08/06	2	90,500	--	--	--	--
Well-AM	08/21/06	1	259,000	2,520	3,590	--	--
Well-AM	09/07/06		17,003	151	241	--	--
Well-AM	09/13/06	2	239,000	--	--	--	--
Well-AM	09/19/06		18,191	161	257	--	--
Well-AM	10/09/06		19,530	156	261	--	--
Well-AM	11/01/06		20,848	162	275	--	--
Well-AM	11/15/06		22,937	162	290	--	--
Well-AM	12/07/06		32,938	153	330	--	--
Well-AM	12/18/06		39,050	148	352	--	--
Well-AM	01/13/07		20,493	148	266	--	--
Well-AM	01/22/07		25,079	155	294	--	--
Well-AM	02/06/07		28,011	162	311	--	--
Well-AM	02/23/07		51,812	157	407	--	--
Well-AM	03/08/07		20,495	149	266	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AM	04/20/07		20,290	160	275	--	--
Well-AM	05/15/07		36,032	174	363	--	--
Well-AM	06/19/07	1	50,300	3,430	3,730	--	--
Well-AM	07/18/07		37,401	146	335	--	--
Well-AM	07/30/07		36,361	139	321	--	--
Well-AM	08/15/07		38,711	148	342	--	--
Well-AM	09/21/07	1	209,000	3,830	7,330	--	--
Well-AM	09/25/07	1	249,000	3,730	7,950	--	--
Well-AM	10/03/07	1	223,000	3,830	7,550	--	--
Well-AM	10/17/07	1	118,000	4,370	5,690	--	--
Well-AM	11/14/07	1	101,000	4,110	5,210	--	--
Well-AM	11/28/07	1	105,000	3,630	5,330	--	--
Well-AM	12/12/07		22,758	150	272	--	--
Well-AM	12/27/07		19,329	149	250	--	--
Well-AM	01/17/08		18,293	140	239	--	--
Well-AM	01/28/08		19,454	140	246	--	--
Well-AM	02/06/08		19,910	140	250	--	--
Well-AM	02/20/08		19,927	149	255	--	--
Well-AM	03/13/08		17,686	146	241	--	--
Well-AM	03/18/08		21,764	146	265	--	--
Well-AM	04/02/08		25,177	155	287	--	--
Well-AM	04/23/08		25,398	146	282	--	--
Well-AM	05/08/08		23,403	147	270	--	--
Well-AM	06/24/08		22,981	135	256	--	--
Well-AM	06/30/08		23,957	136	262	--	--
Well-AM	07/07/08		26,203	141	281	--	--
Well-AM	07/24/08		21,019	140	253	--	--
Well-AM	08/07/08		21,348	140	254	--	--
Well-AM	08/21/08		30,082	128	290	--	--
Well-AM	09/02/08		34,763	132	316	--	--
Well-AM	09/22/08		32,991	135	312	--	--
Well-AM	11/14/08		30,046	147	304	--	--
Well-AM	11/25/08		26,960	133	278	--	--
Well-AM	12/08/08		30,751	134	297	--	--
Well-AM	12/23/08		30,935	143	303	--	--
Well-AM	01/08/09		36,093	139	324	--	--
Well-AM	02/25/09		41,740	145	352	--	--
Well-AM	03/26/09		31,780	144	306	--	--
Well-AM	04/16/09		21,351	146	259	--	--
Well-AM	05/20/09		39,025	148	340	--	--
Well-AM	06/10/09		9,078	134	175	--	--
Well-AM	07/21/09		44,071	134	351	--	--
Well-AM	08/18/09		25,619	138	273	--	--
Well-AM	09/23/09		30,425	149	305	--	--
Well-AM	10/20/09		32,439	139	307	--	--
Well-AM	11/17/09		29,335	132	287	--	--
Well-AM	12/16/09		35,292	145	322	--	--
Well-AM	02/22/10		37,863	186	459	--	--
Well-AM	03/17/10		31,350	195	432	--	--
Well-AM	04/28/10		30,436	188	421	--	--
Well-AM	05/25/10		25,263	181	382	--	--
Well-AM	06/21/10		21,439	184	354	--	--
Well-AM	07/16/10		16,023	184	311	--	--
Well-AM	08/11/10		15,889	200	319	--	--
Well-AM	09/13/10		14,338	187	298	--	--
Well-AM	10/11/10		12,908	188	287	--	--
Well-AM	11/10/10		24,837	200	397	--	--
Well-AM	12/02/10		10,018	183	256	--	--
Well-AM	01/14/11		10,135	180	254	--	--
Well-AM	03/25/11	2	8,010	430	844	--	--
Well-AM	04/27/11	2	6,640	398	707	--	--
Well-AM	05/10/11	2	6,190	388	665	--	--
Well-AM	06/10/11	2	7,570	416	800	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
WELL-AM	07/20/11	2	7,100	419	755	--	--
Well-AM	08/17/11	2	6,860	374	724	--	--
Well-AM	09/15/11	2	6,630	406	706	--	--
Well-AM	12/08/11	2	7,740	427	817	--	--
Well-AN	08/10/04		21,579	143	263	0.685	32.1
Well-AN	08/24/04		19,632	155	263	--	--
Well-AN	09/14/04		9,150	141	182	0.567	23
Well-AN	10/25/04		8,950	147	185	--	--
Well-AN	11/23/04		6,245	144	158	--	--
Well-AN	12/29/04	1	< 4020.00	4,020	1,210	--	--
Well-AN	01/12/05		6,180	159	169	--	--
Well-AN	03/02/05	1	192,000	3,670	6,300	--	--
Well-AN	03/07/05	1	171,000	3,490	5,940	--	--
Well-AN	03/14/05	1	154,000	4,320	5,700	--	--
Well-AN	03/23/05	1	172,000	3,790	6,030	--	--
Well-AN	03/28/05	1	98,900	6,280	4,900	--	--
Well-AN	04/18/05	1	149,000	4,420	5,650	--	--
Well-AN	05/18/05	1	121,000	3,490	4,920	--	--
Well-AN	06/22/05	1	98,000	3,750	4,470	--	--
Well-AN	07/19/05		76,094	148	479	--	--
Well-AN	08/15/05	1	69,000	3,905	3,879	--	--
Well-AN	10/17/05	1	75,100	3,790	4,150	--	--
Well-AN	11/15/05	1	106,000	3,430	4,860	--	--
Well-AN	12/12/05	1	76,400	4,370	4,260	--	--
Well-AN	01/24/06	1	99,100	3,550	4,800	--	--
Well-AN	02/22/06		78,129	149	485	--	--
Well-AN	02/23/06	1	65,600	3,920	4,030	--	--
Well-AN	03/21/06	1	86,200	3,730	4,630	--	--
Well-AN	04/17/06	1	54,500	5,510	4,070	--	--
Well-AN	05/15/06	1	80,300	5,000	4,870	--	--
Well-AN	06/20/06	1	76,400	4,890	4,730	--	--
Well-AN	07/24/06	1	54,800	5,470	3,930	--	--
Well-AN	08/22/06	1	101,000	2,520	2,320	--	--
Well-AN	09/21/06	1	82,400	7,550	4,720	--	--
Well-AN	10/06/06		3,169	161	138	--	--
Well-AN	11/16/06	1	89,000	3,630	4,680	--	--
Well-AN	12/15/06		22,903	158	286	--	--
Well-AN	01/23/07		5,973	154	164	--	--
Well-AN	02/06/07		43,366	181	404	--	--
Well-AN	08/23/07		27,075	143	289	--	--
Well-AN	09/20/07		79,768	151	492	--	--
Well-AN	10/17/07		41,105	158	381	--	--
Well-AN	11/15/07	1	54,400	4,110	3,930	--	--
Well-AN	12/13/07	1	66,700	4,030	4,300	--	--
Well-AN	03/12/08	1	60,500	3,980	3,950	--	--
Well-AN	04/23/08	1	73,700	5,060	4,590	--	--
Well-AN	05/09/08		4,827	140	141	--	--
Well-AN	06/12/08		41,194	136	338	--	--
Well-AN	07/16/08		54,458	144	400	--	--
Well-AN	08/21/08	1	51,400	4,530	3,600	--	--
Well-AN	09/22/08		25,168	148	278	--	--
Well-AN	03/16/09		5,596	145	151	--	--
Well-AN	04/29/09		1,161	147	105	--	--
Well-AN	05/11/09	1	72,400	4,610	4,470	--	--
Well-AN	06/10/09		35,050	149	326	--	--
Well-AN	04/13/10		2,313	186	157	--	--
Well-AN	05/25/10		1,005	199	140	--	--
Well-AN	06/09/10		6,023	186	211	--	--
Well-AN	07/22/10		2,310	201	165	--	--
Well-AN	08/09/10		2,101	200	161	--	--
Well-AN	09/16/10		< 192.61	193	118	--	--
Well-AN	10/12/10		12,122	187	279	--	--
Well-AN	11/15/10		10,342	200	271	--	--



Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AN	01/31/11		27,005	183	395	--	--
Well-AN	03/22/11	2	21,600	698	2,200	--	--
Well-AN	05/05/11	2	2,440	253	294	--	--
Well-AN	09/10/11	2	11,600	531	1,210	--	--
Well-AO	07/29/04		6,739	146	163	--	--
Well-AO	08/10/04		2,399	153	125	0.24	27.3
Well-AO	08/16/04		5,420	146	155	--	--
Well-AO	08/24/04		2,225	155	125	--	--
Well-AO	09/14/04		2,417	149	123	--	--
Well-AO	09/29/04		2,794	152	130	--	--
Well-AO	10/25/04		2,706	158	132	--	--
Well-AO	11/23/04		2,570	147	123	--	--
Well-AO	12/27/04	1	< 4060.00	4,060	1,370	--	--
Well-AO	01/12/05		1,780	166	125	--	--
Well-AO	03/02/05	1	15,900	3,670	2,100	--	--
Well-AO	03/07/05	1	158,000	3,490	5,710	--	--
Well-AO	03/14/05	1	138,000	4,320	5,430	--	--
Well-AO	03/23/05	1	192,000	3,790	6,570	--	--
Well-AO	03/28/05		6,395	147	162	--	--
Well-AO	11/15/05	1	34,700	3,430	2,900	--	--
Well-AO	12/12/05	1	58,000	4,370	3,750	--	--
Well-AO	07/24/06	1	38,400	5,470	3,410	--	--
Well-AO	08/22/06	1	98,600	2,520	2,290	--	--
Well-AO	10/06/06		4,190	160	148	--	--
Well-AO	11/16/06		24,704	164	301	--	--
Well-AO	12/15/06		7,629	168	190	--	--
Well-AO	01/23/07		5,136	154	154	--	--
Well-AO	04/29/09		3,045	141	124	--	--
Well-AP	07/19/04		2,078	148	118	0.06	58.6
Well-AP	08/09/04		1,455	150	112	0.126	105
Well-AP	08/23/04		1,006	151	106	--	--
Well-AP	09/08/04		1,039	148	105	--	--
Well-AP	09/22/04		1,679	156	119	--	--
Well-AP	10/11/04		777	151	102	--	--
Well-AP	11/22/04		1,531	150	112	0.204	65
Well-AP	12/14/04	1	< 3230.00	3,230	984	--	--
Well-AP	01/27/05		1,200	138	102	0.16	134
Well-AP	02/01/05		2,680	153	128	--	--
Well-AP	03/07/05	1	70,300	3,490	3,970	--	--
Well-AP	04/05/05	1	100,000	4,220	4,730	--	--
Well-AP	05/02/05	1	94,400	3,320	1,690	--	--
Well-AP	06/06/05	1	106,000	3,460	4,630	--	--
Well-AP	06/21/05	1	46,400	3,750	3,220	--	--
Well-AP	07/06/05		1,968	144	114	--	--
Well-AP	07/19/05		4,563	148	145	--	--
Well-AP	08/01/05	1	6,190	3,320	3,640	--	--
Well-AP	08/16/05	1	25,500	3,905	2,564	--	--
Well-AP	08/29/05		961	151	105	--	--
Well-AP	09/06/05		1,196	150	107	--	--
Well-AP	09/19/05		10,097	152	195	--	--
Well-AP	10/03/05	1	48,600	4,220	3,530	--	--
Well-AP	10/18/05		12,250	156	212	--	--
Well-AP	11/01/05		798	149	101	--	--
Well-AP	12/08/05	1	28,200	3,730	2,750	--	--
Well-AP	01/10/06		14,354	152	225	--	--
Well-AP	02/07/06		9,723	152	191	--	--
Well-AP	02/21/06		14,580	152	226	--	--
Well-AP	03/06/06		9,829	161	199	--	--
Well-AP	03/20/06	1	8,860	3,730	1,850	--	--
Well-AP	04/03/06		9,490	155	192	--	--
Well-AP	04/17/06		8,284	158	184	--	--
Well-AP	05/01/06		8,316	154	184	--	--
Well-AP	05/15/06		7,686	158	180	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AP	06/05/06		5,639	167	167	--	--
Well-AP	06/20/06		5,681	150	158	--	--
Well-AP	07/10/06		757	157	105	--	--
Well-AP	07/24/06		465	152	98	--	--
Well-AP	08/07/06		2,006	159	123	--	--
Well-AP	08/21/06		4,405	153	147	--	--
Well-AP	09/06/06		2,560	157	128	--	--
Well-AP	10/10/06		5,939	161	166	--	--
Well-AP	11/01/06		779	153	103	--	--
Well-AP	12/08/06		5,412	186	179	--	--
Well-AP	01/13/07		1,086	156	109	--	--
Well-AP	02/05/07		4,348	151	145	--	--
Well-AP	03/07/07		1,169	151	109	--	--
Well-AP	04/19/07		1,059	158	111	--	--
Well-AP	05/15/07		781	186	123	--	--
Well-AP	06/18/07		1,093	145	102	--	--
Well-AP	07/18/07		1,049	144	101	--	--
Well-AP	08/15/07		2,730	144	122	--	--
Well-AP	09/19/07		3,830	161	144	--	--
Well-AP	10/03/07		3,442	150	133	--	--
Well-AP	11/14/07		4,025	124	128	--	--
Well-AP	12/12/07		3,806	137	130	--	--
Well-AP	01/17/08		1,282	154	110	--	--
Well-AP	02/21/08		1,225	149	106	--	--
Well-AP	03/12/08		1,123	138	99	--	--
Well-AP	04/01/08		1,224	147	105	--	--
Well-AP	05/08/08		1,130	136	98	--	--
Well-AP	06/19/08		1,143	143	102	--	--
Well-AP	07/07/08		831	128	89	--	--
Well-AP	08/07/08		1,070	133	95	--	--
Well-AP	09/02/08		936	133	93	--	--
Well-AP	10/17/08		947	146	101	--	--
Well-AP	11/18/08		922	131	92	--	--
Well-AP	12/15/08		1,113	144	102	--	--
Well-AP	01/27/09		1,125	145	102	--	--
Well-AP	02/25/09		1,234	136	100	--	--
Well-AP	03/16/09		1,510	145	107	--	--
Well-AP	04/08/09		1,141	144	102	--	--
Well-AP	05/11/09		1,216	144	103	--	--
Well-AP	06/03/09		1,250	139	101	--	--
Well-AP	07/22/09		1,371	141	104	--	--
Well-AP	08/04/09		1,155	141	101	--	--
Well-AP	09/23/09		1,257	136	100	--	--
Well-AP	10/08/09		1,196	136	98	--	--
Well-AP	11/04/09		1,106	132	95	--	--
Well-AP	12/16/09		1,114	149	105	--	--
Well-AP	01/13/10		1,166	203	145	--	--
Well-AP	03/10/10		1,681	187	146	--	--
Well-AP	04/11/10		1,447	195	145	--	--
Well-AP	05/14/10		1,606	180	142	--	--
Well-AP	06/18/10		1,896	184	149	--	--
Well-AP	07/09/10		3,519	203	185	--	--
Well-AP	08/09/10		1,243	188	139	--	--
Well-AP	09/09/10		2,753	186	164	--	--
Well-AP	10/13/10		1,039	187	134	--	--
Well-AP	11/10/10		1,322	181	137	--	--
Well-AP	12/08/10		1,132	145	103	--	--
Well-AP	01/14/11		1,616	183	143	--	--
Well-AP	03/04/11	2	1,070	181	165	--	--
Well-AP	04/07/11	2	959	184	163	--	--
Well-AP	05/05/11	2	1,200	191	178	--	--
Well-AP	06/16/11	2	1,230	187	178	--	--
Well-AP	07/13/11	2	887	200	163	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AP	08/31/11	2	1,900	236	246	--	--
Well-AP	09/15/11	2	1,350	218	199	--	--
Well-AP	10/20/11	2	1,010	183	165	--	--
Well-AP	11/17/11	2	1,020	206	174	--	--
Well-AQ	07/08/04	1	< 3260	3,260	1,094	--	--
Well-AQ	07/19/04		217	142	88	0.436	308
Well-AQ	08/09/04		309	152	95	0.57	1090
Well-AQ	08/23/04		243	147	92	--	--
Well-AQ	09/08/04		273	150	94	--	--
Well-AQ	09/22/04		213	138	86	--	--
Well-AQ	10/26/04		201	144	89	--	--
Well-AQ	11/16/04		218	147	91	--	--
Well-AQ	12/21/04	1	< 4280.00	4,280	1,300	--	--
Well-AQ	01/27/05		225	135	84	--	--
Well-AQ	02/02/05		< 148.00	148	90	0.448	1100
Well-AQ	03/14/05		367	145	92	--	--
Well-AQ	04/12/05		247	143	89	--	--
Well-AQ	05/09/05		248	151	94	--	--
Well-AR	07/14/04	1	324,000	3,620	7,980	--	--
Well-AR	07/19/04	1	390,000	2,870	8,700	--	--
Well-AR	08/09/04	1	464,000	4,850	9,620	6	75
Well-AR	08/23/04	1	496,000	3,670	10,000	--	--
Well-AR	09/13/04	1	551,000	4,560	10,500	7.1	65.1
Well-AR	09/30/04	1	582,000	5,780	10,800	--	--
Well-AR	10/26/04	1	589,000	3,030	11,000	--	--
Well-AR	12/28/04	1	423,000	4,060	9,050	--	--
Well-AR	01/27/05	1	336,000	2,470	8,140	--	--
Well-AR	02/22/05	1	334,000	3,550	8,220	--	--
Well-AR	03/14/05	1	204,000	4,320	6,510	--	--
Well-AR	04/12/05	1	233,000	4,220	7,010	--	--
Well-AR	05/10/05	1	215,000	3,620	6,420	--	--
Well-AR	06/21/05	1	227,000	3,750	6,670	--	--
Well-AR	07/19/05	1	201,000	2,820	6,310	--	--
Well-AR	08/16/05	1	214,000	3,905	6,592	--	--
Well-AR	09/19/05	1	180,000	4,563	6,272	--	--
Well-AR	10/10/05	1	140,000	3,790	5,540	--	--
Well-AR	11/02/05	1	199,000	3,030	6,560	--	--
Well-AR	12/08/05	1	165,000	3,730	6,090	--	--
Well-AR	01/10/06	1	169,000	4,370	6,250	--	--
Well-AR	02/06/06	1	100,000	3,090	4,810	--	--
Well-AR	03/20/06	1	46,500	3,730	3,510	--	--
Well-AR	04/10/06		16,572	155	240	--	--
Well-AR	05/15/06		12,555	156	215	--	--
Well-AR	06/06/06		12,751	162	221	--	--
Well-AR	07/17/06	1	85,700	4,670	5,000	--	--
Well-AR	08/08/06	1	72,100	4,440	4,330	--	--
Well-AR	09/06/06		21,554	157	273	--	--
Well-AR	10/10/06		12,619	158	216	--	--
Well-AR	11/02/06		74,038	169	506	--	--
Well-AR	12/18/06		61,149	155	447	--	--
Well-AR	12/19/06	1	59,900	4,840	4,060	--	--
Well-AR	01/13/07	1	85,400	3,730	4,700	--	--
Well-AR	02/05/07	1	62,900	4,370	4,350	--	--
Well-AR	03/07/07	1	62,300	3,630	4,110	--	--
Well-AR	06/18/07	1	80,600	3,430	4,620	--	--
Well-AR	07/19/07	1	84,400	4,370	4,780	--	--
Well-AR	07/23/07	1	82,300	1,840	2,180	--	--
Well-AR	08/08/07	1	68,900	4,110	4,390	--	--
Well-AR	08/15/07	1	84,700	3,830	4,760	--	--
Well-AR	09/19/07	1	51,500	3,830	3,760	--	--
Well-AR	09/25/07	1	61,400	3,730	4,170	--	--
Well-AR	10/03/07		20,163	157	267	--	--
Well-AR	10/17/07		12,266	137	200	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AR	11/14/07	1	52,900	4,110	3,940	--	--
Well-AR	11/28/07		50,018	123	374	--	--
Well-AR	12/12/07		47,105	146	373	--	--
Well-AR	12/27/07		43,089	149	360	--	--
Well-AR	01/23/08		37,961	140	334	--	--
Well-AR	02/21/08		33,079	139	313	--	--
Well-AR	03/12/08		33,332	147	323	--	--
Well-AR	04/01/08		27,929	152	297	--	--
Well-AR	05/08/08		23,914	146	272	--	--
Well-AR	06/19/08		16,288	135	220	--	--
Well-AR	07/07/08		15,470	139	220	--	--
Well-AR	08/18/08		22,857	129	256	--	--
Well-AR	09/04/08		24,809	134	266	--	--
Well-AR	09/22/08		11,194	147	196	--	--
Well-AR	10/13/08		11,555	135	194	--	--
Well-AR	10/27/08		12,787	135	202	--	--
Well-AR	11/18/08		10,362	137	186	--	--
Well-AR	11/25/08		8,539	132	168	--	--
Well-AR	12/15/08		8,935	148	181	--	--
Well-AR	12/23/08		8,735	145	178	--	--
Well-AR	01/08/09		15,955	152	231	--	--
Well-AR	02/24/09		33,163	154	327	--	--
Well-AR	03/16/09		33,439	144	313	--	--
Well-AR	04/08/09		42,599	134	343	--	--
Well-AR	05/11/09	1	62,500	4,610	4,240	--	--
Well-AR	06/03/09		41,099	131	336	--	--
Well-AR	07/21/09		34,407	138	318	--	--
Well-AR	08/20/09		30,131	140	296	--	--
Well-AR	09/02/09		30,184	150	306	--	--
Well-AR	10/21/09		40,987	139	343	--	--
Well-AR	11/06/09		31,184	132	295	--	--
Well-AR	12/22/09		23,314	145	267	--	--
Well-AR	01/13/10		22,647	194	370	--	--
Well-AR	02/18/10		21,335	188	354	--	--
Well-AR	03/10/10		20,553	194	354	--	--
Well-AR	04/12/10		17,969	187	327	--	--
Well-AR	05/14/10		17,832	180	326	--	--
Well-AR	06/18/10		18,734	187	336	--	--
Well-AR	07/09/10		17,254	184	322	--	--
Well-AR	08/09/10		17,061	200	329	--	--
Well-AR	09/09/10		18,338	187	332	--	--
Well-AR	10/13/10		20,436	187	350	--	--
Well-AR	11/10/10		17,075	196	331	--	--
Well-AR	12/08/10		15,208	187	309	--	--
Well-AR	01/14/11		14,825	211	315	--	--
Well-AR	03/04/11	2	14,800	579	1,520	--	--
Well-AR	04/07/11	2	16,100	610	1,650	--	--
Well-AR	05/05/11	2	16,100	611	1,660	--	--
Well-AR	06/16/11	2	15,000	574	1,540	--	--
Well-AR	07/13/11	2	12,100	547	1,260	--	--
Well-AR	08/31/11	2	9,500	484	996	--	--
Well-AR	09/15/11	2	7,250	426	771	--	--
Well-AR	10/20/11	2	8,530	427	893	--	--
Well-AR	11/17/11	2	10,500	550	1,100	--	--
Well-AS	07/08/04	1	37,700	3,620	2,920	--	--
Well-AS	07/19/04	1	27,600	2,870	2,460	--	--
Well-AS	08/09/04	1	7,510	4,850	1,920	--	--
Well-AS	08/23/04	1	41,300	3,030	2,990	--	--
Well-AS	09/13/04		20,456	145	259	0.727	199
Well-AS	09/29/04		18,171	146	248	--	--
Well-AS	10/11/04		9,899	156	200	--	--
Well-AS	11/16/04	1	14,400	3,910	2,090	--	--
Well-AS	12/21/04	1	15,200	3,910	2,070	--	--



Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AS	01/27/05		14,000	143	224	0.459	186
Well-AS	03/02/05	1	23,400	3,670	2,430	--	--
Well-AS	03/07/05	1	40,100	3,490	3,020	--	--
Well-AS	03/14/05	1	12,600	4,320	2,080	--	--
Well-AS	03/23/05	1	72,400	3,790	4,050	--	--
Well-AS	03/28/05	1	67,600	6,280	4,180	--	--
Well-AS	04/18/05	1	75,700	4,420	4,140	--	--
Well-AS	05/18/05	1	59,200	3,490	3,520	--	--
Well-AS	06/22/05	1	64,900	3,750	3,730	--	--
Well-AS	07/19/05	1	60,500	2,820	3,530	--	--
Well-AS	08/15/05	1	49,100	3,905	3,334	--	--
Well-AS	10/17/05	1	35,300	3,790	3,010	--	--
Well-AS	11/15/05	1	66,500	3,430	3,910	--	--
Well-AS	12/12/05	1	61,400	4,370	3,870	--	--
Well-AS	01/24/06	1	72,100	3,550	4,150	--	--
Well-AS	02/23/06	1	72,100	3,920	4,190	--	--
Well-AS	03/21/06	1	50,900	3,730	3,640	--	--
Well-AS	04/17/06	1	46,200	5,510	3,820	--	--
Well-AS	05/15/06	1	46,500	5,000	3,850	--	--
Well-AS	06/20/06	1	51,500	4,890	3,970	--	--
Well-AS	07/24/06	1	44,300	5,470	3,640	--	--
Well-AS	08/22/06	1	61,300	2,520	1,850	--	--
Well-AS	09/21/06	1	66,100	7,550	4,350	--	--
Well-AS	10/06/06	1	67,000	6,270	4,260	--	--
Well-AS	11/16/06		101,284	163	584	--	--
Well-AS	12/15/06		48,104	151	394	--	--
Well-AS	01/23/07		48,552	158	403	--	--
Well-AS	02/06/07		32,517	162	334	--	--
Well-AS	03/14/07		41,901	165	383	--	--
Well-AS	06/19/07		28,799	147	298	--	--
Well-AS	07/19/07		4,925	146	146	--	--
Well-AS	08/23/07		14,497	141	218	--	--
Well-AS	09/20/07		13,072	149	214	--	--
Well-AS	10/17/07		8,922	168	204	--	--
Well-AS	11/15/07		15,870	124	220	--	--
Well-AS	12/13/07		27,876	150	296	--	--
Well-AS	01/24/08		36,053	141	326	--	--
Well-AS	02/25/08		27,445	149	294	--	--
Well-AS	03/12/08		25,791	148	286	--	--
Well-AS	04/23/08		15,043	160	233	--	--
Well-AS	05/09/08		2,435	137	115	--	--
Well-AS	07/16/08	1	53,200	4,780	3,800	--	--
Well-AS	08/28/08		6,876	128	154	--	--
Well-AS	09/22/08		27,899	145	288	--	--
Well-AS	04/29/09		21,064	148	259	--	--
Well-AT	07/02/04	1	30,600	3,490	2,650	--	--
Well-AT	07/08/04		4,288	142	139	0.275	309
Well-AT	07/12/04	1	32,700	3,620	2,750	--	--
Well-AT	07/22/04	1	21,600	2,870	2,200	--	--
Well-AT	08/03/04	1	28,700	3,320	2,580	--	--
Well-AT	08/11/04	1	23,300	3,030	2,320	--	--
Well-AT	08/12/04	1	30,900	3,030	2,620	--	--
Well-AT	08/13/04	1	20,700	3,030	2,220	--	--
Well-AT	08/21/04	1	26,700	3,030	2,460	--	--
Well-AT	08/31/04		17,124	157	250	--	--
Well-AT	12/28/04	1	< 4060.00	4,060	1,260	--	--
Well-AT	01/19/05		1,991	159	124	0.286	163
Well-AT	03/02/05	1	40,200	3,670	3,030	--	--
Well-AT	03/07/05	1	21,200	3,490	2,330	--	--
Well-AT	03/14/05	1	58,400	4,320	3,660	--	--
Well-AT	03/23/05		10,039	150	195	--	--
Well-AT	03/28/05		7,973	148	176	--	--
Well-AT	04/18/05		4,974	151	153	0.267	396

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-AT	05/18/05		3,451	151	136	--	--
Well-AT	06/22/05		1,777	145	112	--	--
Well-AT	07/19/05		1,687	146	112	--	--
Well-AT	08/15/05		1,578	150	112	--	--
Well-AT	10/17/05		2,224	157	124	--	--
Well-AT	11/15/05		1,451	151	112	--	--
Well-AT	12/12/05		1,722	153	116	--	--
Well-AT	01/24/06		2,139	153	121	--	--
Well-AT	02/22/06		2,375	152	123	--	--
Well-AT	02/23/06	1	< 3920.00	3,920	--	--	--
Well-AT	03/21/06	1	< 3730.00	3,730	--	--	--
Well-AT	04/17/06		1,396	159	115	--	--
Well-AT	05/15/06		1,517	156	115	--	--
Well-AT	06/20/06		1,911	151	117	--	--
Well-AT	07/24/06		2,110	151	120	--	--
Well-AT	08/22/06		3,715	152	139	--	--
Well-AT	09/21/06		4,002	158	145	--	--
Well-AT	10/06/06		4,785	159	154	--	--
Well-AT	11/16/06		6,235	170	178	--	--
Well-AT	12/15/06		2,458	166	134	--	--
Well-AT	01/23/07		2,103	146	118	--	--
Well-AT	02/06/07		1,401	149	110	--	--
Well-AT	03/14/07		2,359	197	152	--	--
Well-AT	04/24/07		4,046	160	149	--	--
Well-AT	05/22/07		3,482	151	135	--	--
Well-AT	06/19/07		1,892	143	112	--	--
Well-AT	07/19/07		2,158	145	116	--	--
Well-AT	08/23/07		2,182	148	118	--	--
Well-AT	09/20/07		2,114	148	118	--	--
Well-AT	10/17/07		1,705	149	112	--	--
Well-AT	11/15/07		2,221	176	136	--	--
Well-AT	12/13/07		4,326	140	137	--	--
Well-AT	03/12/08	1	49,500	4,890	3,700	--	--
Well-AT	04/23/08	1	70,000	5,060	4,490	--	--
Well-AT	05/09/08		14,174	136	210	--	--
Well-AT	08/28/08		707	139	94	--	--
Well-AT	12/18/08		3,250	132	121	--	--
Well-AT	01/19/09		3,158	135	122	--	--
Well-AT	03/16/09		3,367	129	120	--	--
Well-AT	04/22/09		4,429	135	135	--	--
Well-AT	05/11/09		3,891	147	136	--	--
Well-AT	06/10/09		2,912	133	118	--	--
Well-AT	05/25/10		5,976	180	208	--	--
Well-AT	06/09/10		5,747	204	220	--	--
Well-AT	07/22/10		4,271	184	186	--	--
Well-AT	08/09/10		5,921	200	217	--	--
Well-AT	09/16/10		4,316	186	188	--	--
Well-AT	10/12/10		4,851	187	196	--	--
Well-AT	11/15/10		3,548	197	184	--	--
Well-AT	12/16/10		4,651	184	192	--	--
Well-AT	01/31/11		4,208	211	198	--	--
Well-AT	03/22/11	2	3,850	309	433	--	--
Well-AT	04/07/11	2	4,550	333	502	--	--
Well-AV	07/20/05	2	3,060	--	--	--	--
Well-AY	07/20/05	2	3,000	--	--	--	--
Well-AZ	07/20/05	2	8,710	--	--	--	--
Well-BA	10/16/06		< 157.01	157	94	--	--
Well-BA	04/10/07		< 125.52	126	75	--	--
Well-BA	05/07/07		172	172	105	--	--
Well-BA	10/17/07		< 149.99	150	89	--	--
Well-BA	04/17/08		< 146.86	147	88	--	--
Well-BA	10/20/08		< 133.23	133	78	--	--
Well-BA	04/13/09		< 137.72	138	83	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-BA	10/21/09		< 138.41	138	83	--	--
Well-BA	04/14/10		< 200.33	200	119	--	--
Well-BA	10/26/10		< 197.84	198	117	--	--
Well-BA	06/13/11	2	< 182	182	107	--	--
Well-BA	08/24/11	2	355	174	125	--	--
Well-BA	10/07/11	2	< 180	180	112	--	--
Well-BA	11/03/11	2	< 192	192	116	--	--
Well-BB	10/16/06		289	162	101	--	--
Well-BB	12/08/06		338	165	104	--	--
Well-BB	04/10/07		< 160.85	161	97	--	--
Well-BB	10/17/07		< 148.82	149	89	--	--
Well-BB	04/17/08		168	143	88	--	--
Well-BB	10/20/08		< 133.82	134	81	--	--
Well-BB	04/13/09		170	137	84	--	--
Well-BB	10/21/09		206	135	84	--	--
Well-BB	04/14/10		239	201	125	--	--
Well-BB	06/29/10		307	197	124	--	--
Well-BB	10/26/10		< 198.62	199	122	--	--
Well-BB	01/20/11		260	206	128	--	--
Well-BB	06/13/11	2	< 177	177	117	--	--
Well-BB	08/24/11	2	1,240	200	184	--	--
Well-BB	09/01/11	2	4,150	335	466	--	--
Well-BB	10/07/11	2	< 183	183	117	--	--
Well-BB	11/03/11	2	< 194	194	120	--	--
Well-BC	10/16/06		< 162.95	163	98	--	--
Well-BC	04/10/07		< 161.59	162	94	--	--
Well-BC	10/17/07		< 149.79	150	89	--	--
Well-BC	04/17/08		< 144.15	144	86	--	--
Well-BC	04/29/09		< 132.96	133	80	--	--
Well-BC	04/07/10		598	438	289	--	--
Well-BC	04/08/10		558	439	287	--	--
Well-BC	04/09/10		< 458.08	458	274	--	--
Well-BC	04/13/10		373	182	117	--	--
Well-BC	04/16/10		245	191	119	--	--
Well-BC	04/19/10		623	202	133	--	--
Well-BC	04/22/10		280	204	128	--	--
Well-BC	04/28/10		< 197.83	198	121	--	--
Well-BC	05/19/10		< 191.66	192	117	--	--
Well-BC	06/02/10		355	182	117	--	--
Well-BC	06/17/10		< 134.38	134	82	--	--
Well-BC	06/22/10		145	135	83	--	--
Well-BC	07/07/10		< 199.59	200	122	--	--
Well-BC	07/14/10		279	201	126	--	--
Well-BC	07/20/10		737	200	135	--	--
Well-BC	07/28/10		447	184	120	--	--
Well-BC	08/26/10		382	200	128	--	--
Well-BC	09/24/10		283	181	115	--	--
Well-BC	10/18/10		266	188	118	--	--
Well-BC	01/21/11		846	212	144	--	--
Well-BC	06/07/11	2	250	177	122	--	--
Well-BC	07/29/11	2	250	190	129	--	--
Well-BC	09/01/11	2	2,100	248	266	--	--
Well-BC	10/11/11	2	649	162	134	--	--
Well-BC	11/08/11	2	362	176	127	--	--
Well-BC	12/28/11	2	383	182	134	--	--
Well-BD	10/16/06		325	157	99	--	--
Well-BD	04/10/07		256	152	95	--	--
Well-BD	10/10/07		264	156	97	--	--
Well-BD	04/22/08		323	148	93	--	--
Well-BD	10/20/08		264	133	83	--	--
Well-BD	04/13/09		381	137	88	--	--
Well-BD	10/27/09		196	135	84	--	--
Well-BD	04/07/10		312	188	119	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-BD	04/08/10		< 443.12	443	266	--	--
Well-BD	04/09/10		< 455.51	456	271	--	--
Well-BD	04/13/10		334	183	117	--	--
Well-BD	04/16/10		221	190	118	--	--
Well-BD	04/19/10		299	200	126	--	--
Well-BD	04/22/10		207	205	126	--	--
Well-BD	04/28/10		205	197	122	--	--
Well-BD	05/19/10		929	198	138	--	--
Well-BD	06/02/10		598	181	122	--	--
Well-BD	06/17/10		506	139	91	--	--
Well-BD	06/22/10		458	134	87	--	--
Well-BD	06/28/10		401	186	120	--	--
Well-BD	07/07/10		381	198	126	--	--
Well-BD	07/14/10		249	199	124	--	--
Well-BD	07/20/10		455	195	126	--	--
Well-BD	07/28/10		353	185	118	--	--
Well-BD	08/04/10		442	189	123	--	--
Well-BD	10/18/10		395	192	123	--	--
Well-BD	01/21/11		320	205	129	--	--
Well-BD	06/07/11	2	354	174	126	--	--
Well-BD	08/24/11	2	897	179	154	--	--
Well-BD	10/11/11	2	447	160	123	--	--
Well-BD	11/08/11	2	414	174	128	--	--
Well-BE	10/16/06		< 158.77	159	95	--	--
Well-BE	04/10/07		< 168.40	168	98	--	--
Well-BE	10/10/07		< 157.56	158	93	--	--
Well-BE	04/17/08		< 152.46	152	90	--	--
Well-BE	10/21/08		659	134	90	--	--
Well-BE	04/13/09		449	141	91	--	--
Well-BE	06/29/09		< 130.26	130	79	--	--
Well-BE	10/27/09		636	135	90	--	--
Well-BE	02/22/10		762	191	130	--	--
Well-BE	04/07/10		1,261	201	148	--	--
Well-BE	04/08/10		1,024	439	308	--	--
Well-BE	04/09/10		994	453	314	--	--
Well-BE	04/13/10		1,213	183	135	--	--
Well-BE	04/16/10		1,155	190	137	--	--
Well-BE	04/19/10		1,160	199	142	--	--
Well-BE	04/22/10		1,118	204	144	--	--
Well-BE	04/28/10		657	197	132	--	--
Well-BE	05/19/10		655	194	130	--	--
Well-BE	06/02/10		841	182	127	--	--
Well-BE	06/17/10		698	135	91	--	--
Well-BE	06/22/10		712	134	91	--	--
Well-BE	06/28/10		694	196	132	--	--
Well-BE	07/07/10		625	198	132	--	--
Well-BE	07/14/10		639	199	132	--	--
Well-BE	07/20/10		619	199	132	--	--
Well-BE	07/28/10		625	185	124	--	--
Well-BE	08/04/10		756	189	129	--	--
Well-BE	10/18/10		521	192	126	--	--
Well-BE	01/21/11		301	205	129	--	--
Well-BE	06/07/11	2	270	176	122	--	--
Well-BE	08/05/11	2	1,370	220	202	--	--
Well-BE	08/24/11	2	365	175	126	--	--
Well-BE	10/11/11	2	< 198	198	129	--	--
Well-BE	11/08/11	2	347	177	126	--	--
Well-BE	12/28/11	2	452	181	138	--	--
Well-BF	10/16/06		< 154.83	155	91	--	--
Well-BF	04/11/07		< 163.85	164	94	--	--
Well-BF	10/17/07		< 189.42	189	109	--	--
Well-BF	04/17/08		< 152.34	152	91	--	--
Well-BF	10/21/08		< 135.79	136	80	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-BF	04/13/09		< 140.58	141	83	--	--
Well-BF	10/27/09		< 135.18	135	80	--	--
Well-BF	04/07/10		< 435.13	435	257	--	--
Well-BF	04/08/10		< 438.68	439	261	--	--
Well-BF	04/09/10		< 456.47	456	256	--	--
Well-BF	04/13/10		< 182.24	182	109	--	--
Well-BF	04/16/10		< 188.91	189	111	--	--
Well-BF	04/19/10		< 201.01	201	120	--	--
Well-BF	04/22/10		< 203.34	203	117	--	--
Well-BF	04/28/10		< 189.16	189	111	--	--
Well-BF	05/19/10		< 197.30	197	116	--	--
Well-BF	06/02/10		< 180.58	181	108	--	--
Well-BF	06/17/10		< 133.48	133	78	--	--
Well-BF	06/22/10		< 134.59	135	79	--	--
Well-BF	06/28/10		< 196.52	197	119	--	--
Well-BF	07/07/10		< 199.19	199	118	--	--
Well-BF	07/14/10		< 198.43	198	118	--	--
Well-BF	07/20/10		< 198	198	119	--	--
Well-BF	07/28/10		< 184.66	185	111	--	--
Well-BF	08/04/10		< 188.05	188	112	--	--
Well-BF	10/20/10		< 186.63	187	111	--	--
Well-BF	06/07/11	2	< 180	180	104	--	--
Well-BF	08/24/11	2	< 176	176	109	--	--
Well-BF	10/11/11	2	< 199	199	122	--	--
Well-BF	11/08/11	2	< 175	175	104	--	--
Well-BG	10/17/06		< 162.19	162	97	--	--
Well-BG	04/11/07		< 151.69	152	92	--	--
Well-BG	11/01/07		< 164.78	165	94	--	--
Well-BG	11/01/07	2	< 183	183	118	--	--
Well-BG	04/22/08		322	152	95	--	--
Well-BG	10/21/08		< 136.96	137	82	--	--
Well-BG	04/29/09		354	143	90	--	--
Well-BG	06/15/09		147	133	81	--	--
Well-BG	11/19/09		1,591	131	101	--	--
Well-BG	03/10/10		446	187	121	--	--
Well-BG	04/29/10		1,207	211	153	--	--
Well-BG	06/30/10		706	196	132	--	--
Well-BG	08/25/10		528	189	125	--	--
Well-BG	09/16/10		907	184	130	--	--
Well-BG	11/23/10		1479.12 1466.13	144.81 192.66	107.52 144.93	--	--
Well-BG	06/07/11	2	791	179	149	--	--
Well-BG	08/05/11	2	1,560	232	220	--	--
Well-BG	08/24/11	2	1,460	213	205	--	--
Well-BG	10/11/11	2	507	197	148	--	--
Well-BG	11/08/11	2	450	177	132	--	--
Well-BH	05/23/06	2	178	164	111	--	--
Well-BH	11/03/06		1,228	170	120	--	--
Well-BH	12/14/06		861	169	114	--	--
Well-BH	01/09/07		967	161	111	--	--
Well-BH	02/21/07		476	149	96	--	--
Well-BH	03/27/07		198	153	95	--	--
Well-BH	04/24/07		301	161	101	--	--
Well-BH	10/10/07		250	148	92	--	--
Well-BH	03/19/08		736	137	93	--	--
Well-BH	06/12/08		< 134.55	135	82	--	--
Well-BH	09/23/08		161	134	82	--	--
Well-BH	11/11/08		< 133.29	133	81	--	--
Well-BH	12/18/08		< 137.39	137	83	--	--
Well-BH	03/10/09		4517.62 4504.78	131.05 148.09	132.92 142.46	--	--
Well-BH	04/23/09		273	131	82	--	--
Well-BH	05/19/09		292	142	89	--	--



Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-BH	06/15/09		318	135	85	--	--
Well-BH	07/27/09		526	143	93	--	--
Well-BH	08/19/09		< 135.14	135	82	--	--
Well-BH	09/14/09		< 143.83	144	85	--	--
Well-BH	10/14/09		< 135.14	135	81	--	--
Well-BH	11/20/09		338	137	87	--	--
Well-BH	12/29/09		1,082	141	100	--	--
Well-BH	03/24/10		196	190	118	--	--
Well-BH	04/28/10		728	196	132	--	--
Well-BH	05/13/10		1,215	189	139	--	--
Well-BH	06/28/10		613	190	127	--	--
Well-BH	07/16/10		375	147	93	--	--
Well-BH	08/18/10		< 196.66	197	121	--	--
Well-BH	09/16/10		316	182	116	--	--
Well-BH	11/23/10		488	200	130	--	--
Well-BH	12/08/10		1407.96 1400.94	198.22 203.84	147.63 150.99	--	--
Well-BH	01/25/11		799	186	128	--	--
Well-BH	02/11/11		562	186	123	--	--
Well-BH	05/23/11	2	310	184	129	--	--
Well-BH	06/21/11	2	224	168	115	--	--
Well-BH	07/25/11	2	868	195	164	--	--
Well-BH	08/30/11	2	2,010	254	263	--	--
Well-BH	09/30/11	2	372	160	118	--	--
Well-BI	05/23/06	2	< 154	154	104	--	--
Well-BI	10/24/06		2,938	183	151	--	--
Well-BI	12/14/06		< 186.44	186	113	--	--
Well-BI	01/09/07		475	161	104	--	--
Well-BI	02/21/07		284	146	92	--	--
Well-BI	03/28/07		< 166.33	166	102	--	--
Well-BI	04/24/07		214	155	96	--	--
Well-BI	10/10/07		350	137	87	--	--
Well-BI	03/24/08		577	138	91	--	--
Well-BI	06/12/08		241	135	84	--	--
Well-BI	09/23/08		227	135	84	--	--
Well-BI	11/11/08		592	133	89	--	--
Well-BI	12/18/08		678	131	89	--	--
Well-BI	03/10/09		1,470	145	107	--	--
Well-BI	04/27/09		218	134	83	--	--
Well-BI	05/19/09		485	143	92	--	--
Well-BI	06/15/09		367	133	85	--	--
Well-BI	07/27/09		818	134	92	--	--
Well-BI	08/20/09		235	134	83	--	--
Well-BI	09/14/09		146.07 < 144.84	143.4 144.84	87.63 87.15	--	--
Well-BI	10/27/09		485	136	88	--	--
Well-BI	11/19/09		895	138	96	--	--
Well-BI	12/10/09		472	141	91	--	--
Well-BI	01/26/10		454	140	91	--	--
Well-BI	02/19/10		426	133	86	--	--
Well-BI	03/18/10		612	202	133	--	--
Well-BI	04/29/10		589	183	122	--	--
Well-BI	05/14/10		662	190	128	--	--
Well-BI	06/30/10		447	200	129	--	--
Well-BI	07/16/10		420	147	94	--	--
Well-BI	08/19/10		234	199	124	--	--
Well-BI	09/16/10		494	187	123	--	--
Well-BI	11/23/10		297	200	126	--	--
Well-BI	12/08/10		279	199	125	--	--
Well-BI	01/25/11		308	187	118	--	--
Well-BI	02/11/11		282	185	117	--	--
Well-BI	05/23/11	2	243	185	126	--	--
Well-BI	07/25/11	2	1,630	221	219	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-BI	08/30/11	2	1,420	211	200	--	--
Well-BI	09/30/11	2	195	160	109	--	--
Well-BJ	05/24/06	2	434	184	137	--	--
Well-BJ	10/17/06		416	170	108	--	--
Well-BJ	01/08/07		402	167	106	--	--
Well-BJ	02/21/07		455	153	98	--	--
Well-BJ	03/28/07		481	156	101	--	--
Well-BJ	04/24/07		269	159	99	--	--
Well-BJ	10/10/07		< 149.96	150	89	--	--
Well-BJ	03/19/08		182	139	85	--	--
Well-BJ	06/12/08		< 134.63	135	81	--	--
Well-BJ	09/23/08		967	134	94	--	--
Well-BJ	11/11/08		200	147	91	--	--
Well-BJ	12/18/08		172	149	91	--	--
Well-BJ	03/10/09		918	148	102	--	--
Well-BJ	04/27/09		162	124	76	--	--
Well-BJ	05/19/09		< 142.07	142	85	--	--
Well-BJ	06/15/09		215	133	83	--	--
Well-BJ	07/27/09		< 133.88	134	81	--	--
Well-BJ	08/20/09		241	137	85	--	--
Well-BJ	09/14/09		436	148	94	--	--
Well-BJ	10/27/09		412	135	87	--	--
Well-BJ	11/19/09		7,778	153	174	--	--
Well-BJ	12/04/09		628	141	93	--	--
Well-BJ	01/26/10		487	141	92	--	--
Well-BJ	02/19/10		485	130	85	--	--
Well-BJ	03/18/10		912	203	140	--	--
Well-BJ	04/29/10		379	181	116	--	--
Well-BJ	05/14/10		421	186	121	--	--
Well-BJ	06/30/10		719	207	139	--	--
Well-BJ	07/16/10		412	147	94	--	--
Well-BJ	08/19/10		333	206	130	--	--
Well-BJ	09/24/10		1,014	191	135	--	--
Well-BJ	10/28/10		584	191	127	--	--
Well-BJ	11/23/10		498	197	128	--	--
Well-BJ	12/08/10		409	201	129	--	--
Well-BJ	01/25/11		645	188	126	--	--
Well-BJ	02/11/11		778	192	131	--	--
Well-BJ	05/23/11	2	425	185	135	--	--
Well-BJ	06/21/11	2	411	168	125	--	--
Well-BJ	07/25/11	2	1,680	222	223	--	--
Well-BJ	08/30/11	2	1,600	223	218	--	--
Well-BJ	09/30/11	2	556	162	129	--	--
Well-BK	05/23/06	2	< 164	164	103	--	--
Well-BK	10/24/06		1,524	173	126	--	--
Well-BK	01/09/07		< 166.83	167	100	--	--
Well-BK	02/21/07		< 141.59	142	85	--	--
Well-BK	03/27/07		183	153	94	--	--
Well-BK	04/24/07		< 168.2	168	100	--	--
Well-BK	10/10/07		383	145	92	--	--
Well-BK	03/19/08		611	139	92	--	--
Well-BK	06/12/08		< 135.58	136	82	--	--
Well-BK	09/23/08		< 134.67	135	81	--	--
Well-BK	11/11/08		798	146	99	--	--
Well-BK	12/18/08		< 145.07	145	87	--	--
Well-BK	03/10/09		576	145	95	--	--
Well-BK	05/19/09		230	144	89	--	--
Well-BK	06/15/09		234	129	80	--	--
Well-BK	07/27/09		275	130	82	--	--
Well-BK	08/19/09		309	129	82	--	--
Well-BK	09/14/09		< 151.78	152	90	--	--
Well-BK	10/14/09		185	137	85	--	--
Well-BK	11/20/09		1,324	139	102	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-BK	12/10/09		852	140	96	--	--
Well-BK	01/26/10		1,137	141	100	--	--
Well-BK	03/24/10		512	186	122	--	--
Well-BK	04/28/10		604	185	124	--	--
Well-BK	05/13/10		661	188	127	--	--
Well-BK	06/28/10		371	198	126	--	--
Well-BK	06/29/10		411	215	137	--	--
Well-BK	07/16/10		372	148	94	--	--
Well-BK	08/19/10		206	204	126	--	--
Well-BK	09/16/10		378	193	124	--	--
Well-BK	11/23/10		314	197	125	--	--
Well-BK	12/08/10		357	201	128	--	--
Well-BK	01/25/11		730	187	127	--	--
Well-BK	02/11/11		412	184	119	--	--
Well-BK	05/23/11	2	184	182	121	--	--
Well-BK	06/21/11	2	335	164	119	--	--
Well-BK	07/25/11	2	3,690	326	423	--	--
Well-BK	08/30/11	2	1,610	228	223	--	--
Well-BK	09/30/11	2	410	161	121	--	--
Well-BL	05/23/06	2	< 164	164	96	--	--
Well-BL	10/24/06		< 178.76	179	107	--	--
Well-BL	04/24/07		< 156.41	156	95	--	--
Well-BL	10/10/07		< 146.04	146	86	--	--
Well-BL	04/22/08		< 135.97	136	82	--	--
Well-BL	10/30/08		< 147.31	147	86	--	--
Well-BL	11/11/08		< 144.4	144	85	--	--
Well-BL	03/10/09		< 144.45	144	87	--	--
Well-BL	10/14/09		< 136.95	137	80	--	--
Well-BL	12/23/09		< 139.96	140	84	--	--
Well-BL	04/29/10		< 196.02	196	113	--	--
Well-BL	07/16/10		< 149.41	149	87	--	--
Well-BL	09/16/10		< 185.35	185	111	--	--
Well-BL	02/11/11		< 185.33	185	111	--	--
Well-BL	05/23/11	2	< 185	185	106	--	--
Well-BM	05/23/06	2	< 161	161	108	--	--
Well-BM	10/24/06		188	170	104	--	--
Well-BM	01/09/07		< 181.39	181	110	--	--
Well-BM	02/21/07		< 151.3	151	92	--	--
Well-BM	03/28/07		< 173.26	173	103	--	--
Well-BM	04/24/07		226	161	99	--	--
Well-BM	10/10/07		195	150	93	--	--
Well-BM	03/24/08		< 139.6	140	85	--	--
Well-BM	06/12/08		145	136	84	--	--
Well-BM	09/23/08		258	134	84	--	--
Well-BM	11/11/08		187	131	81	--	--
Well-BM	12/18/08		152	134	82	--	--
Well-BM	03/10/09		918	144	99	--	--
Well-BM	04/27/09		147	126	77	--	--
Well-BM	05/19/09		187	142	87	--	--
Well-BM	06/15/09		310	131	83	--	--
Well-BM	07/27/09		191	128	79	--	--
Well-BM	08/20/09		256	129	81	--	--
Well-BM	12/29/09		< 140.61	141	85	--	--
Well-BM	03/18/10		< 201.36	201	122	--	--
Well-BM	04/29/10		< 197.3	197	121	--	--
Well-BM	07/23/10		< 146.75	147	88	--	--
Well-BM	09/16/10		< 187.64	188	116	--	--
Well-BM	12/08/10		254	199	124	--	--
Well-BM	02/11/11		205	187	116	--	--
Well-BM	05/23/11	2	< 189	189	123	--	--
Well-BM	07/25/11	2	2,260	250	279	--	--
Well-BM	08/30/11	2	2,380	259	292	--	--
Well-BM	09/30/11	2	371	157	117	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-BN	05/25/06	2	211	183	124	--	--
Well-BN	10/25/06		194	167	102	--	--
Well-BN	12/14/06		222	168	104	--	--
Well-BN	01/08/07		347	169	106	--	--
Well-BN	02/21/07		< 152.15	152	90	--	--
Well-BN	03/28/07		264	156	97	--	--
Well-BN	04/25/07		< 163.8	164	100	--	--
Well-BN	10/26/07		231	149	93	--	--
Well-BN	03/24/08		319	139	88	--	--
Well-BN	09/15/08		372	133	85	--	--
Well-BN	11/12/08		238	132	83	--	--
Well-BN	12/30/08		423	130	84	--	--
Well-BN	03/19/09		760	151	101	--	--
Well-BN	06/18/09		240	144	90	--	--
Well-BN	07/29/09		323	134	85	--	--
Well-BN	08/25/09		274	142	89	--	--
Well-BN	09/17/09		270	151	94	--	--
Well-BN	10/30/09		< 134.93	135	82	--	--
Well-BN	11/20/09		183	138	85	--	--
Well-BN	12/30/09		393	141	90	--	--
Well-BN	03/22/10		< 187.21	187	113	--	--
Well-BN	04/26/10		214	199	123	--	--
Well-BN	07/27/10		< 195.1	195	118	--	--
Well-BN	09/21/10		338	189	120	--	--
Well-BN	12/21/10		293	198	124	--	--
Well-BN	05/26/11	2	253	174	120	--	--
Well-BN	11/15/11	2	205	178	121	--	--
Well-BO	05/25/06	2	182	160	110	--	--
Well-BO	10/25/06		< 193.46	193	115	--	--
Well-BO	04/25/07		< 163.03	163	97	--	--
Well-BO	10/26/07		< 155.52	156	92	--	--
Well-BO	04/16/08		< 137.21	137	81	--	--
Well-BO	10/27/08		< 148.02	148	86	--	--
Well-BO	11/11/08		< 146.75	147	86	--	--
Well-BO	04/16/09		< 124.27	124	75	--	--
Well-BO	10/13/09		< 135.19	135	79	--	--
Well-BO	04/23/10		< 188.26	188	115	--	--
Well-BO	10/12/10		218	188	117	--	--
Well-BO	06/23/11	2	448	166	126	--	--
			377	198	141		
			354	164	120		
Well-BO	08/05/11	2	2,330	253	285	--	--
Well-BO	11/15/11	2	342	179	130	--	--
Well-BP	05/25/06	2	< 165	165	105	--	--
Well-BP	10/25/06		< 173.61	174	103	--	--
Well-BP	04/25/07		< 172.72	173	102	--	--
Well-BP	10/18/07		< 142.59	143	84	--	--
Well-BP	04/16/08		< 136.37	136	80	--	--
Well-BP	10/27/08		< 147.8	148	87	--	--
Well-BP	11/11/08		< 147.77	148	86	--	--
Well-BP	04/16/09		< 134.26	134	81	--	--
Well-BP	10/13/09		< 136.71	137	80	--	--
Well-BP	04/23/10		< 187.58	188	113	--	--
Well-BP	10/12/10		< 185.76	186	108	--	--
Well-BP	06/23/11	2	< 169	169	104	--	--
Well-BP	11/15/11	2	< 177	177	107	--	--
Well-BQ	05/25/06	2	< 165	165	97	--	--
Well-BQ	10/25/06		< 165.76	166	99	--	--
Well-BQ	01/08/07		< 194.24	194	114	--	--
Well-BQ	02/21/07		326	154	97	--	--
Well-BQ	03/28/07		< 162.74	163	94	--	--
Well-BQ	04/25/07		< 165.56	166	100	--	--
Well-BQ	10/27/07		< 143.27	143	84	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-BQ	03/24/08		< 139.16	139	83	--	--
Well-BQ	09/15/08		< 130.11	130	78	--	--
Well-BQ	11/12/08		< 130.78	131	77	--	--
Well-BQ	12/30/08		< 131.34	131	78	--	--
Well-BQ	03/19/09		720	152	101	--	--
Well-BQ	06/18/09		< 128.81	129	78	--	--
Well-BQ	10/30/09		< 135.97	136	81	--	--
Well-BQ	03/22/10		< 191.62	192	115	--	--
Well-BQ	04/26/10		< 196.74	197	115	--	--
Well-BQ	07/27/10		< 192.72	193	114	--	--
Well-BQ	09/21/10		< 188.72	189	114	--	--
Well-BQ	12/22/10		< 197.4	197	118	--	--
Well-BQ	05/26/11	2	< 173	173	108	--	--
Well-BR	05/24/06	2	< 173	173	107	--	--
Well-BR	10/25/06		< 191.99	192	111	--	--
Well-BR	04/25/07		< 168.88	169	102	--	--
Well-BR	10/18/07		< 152.18	152	88	--	--
Well-BR	04/16/08		< 137.88	138	81	--	--
Well-BR	10/27/08		< 148.05	148	86	--	--
Well-BR	11/11/08		< 145.23	145	86	--	--
Well-BR	04/16/09		< 134.53	135	80	--	--
Well-BR	10/13/09		< 135.91	136	80	--	--
Well-BR	04/23/10		< 197.82	198	116	--	--
Well-BR	10/12/10		< 192.15	192	114	--	--
Well-BR	06/23/11	2	< 162	162	102	--	--
Well-BR	11/15/11	2	< 180	180	107	--	--
Well-BS	05/24/06	2	< 156	156	95	--	--
Well-BS	10/25/06		< 171.31	171	100	--	--
Well-BS	04/25/07		< 156.84	157	93	--	--
Well-BS	10/18/07		< 156.04	156	92	--	--
Well-BS	04/16/08		< 136.28	136	81	--	--
Well-BS	10/27/08		< 147.87	148	86	--	--
Well-BS	11/11/08		< 156.92	157	92	--	--
Well-BS	04/16/09		< 134.23	134	79	--	--
Well-BS	10/13/09		< 138.37	138	82	--	--
Well-BS	04/23/10		< 194.98	195	112	--	--
Well-BS	10/12/10		< 189.91	190	113	--	--
Well-BS	06/23/11	2	< 165	165	104	--	--
Well-BS	11/15/11	2	< 182	182	114	--	--
Well-BT	05/25/06	2	< 158	158	97	--	--
Well-BT	10/25/06		< 168.64	169	101	--	--
Well-BT	04/24/07		< 171.68	172	102	--	--
Well-BT	10/18/07		< 155.06	155	92	--	--
Well-BT	04/16/08		< 136.71	137	82	--	--
Well-BT	10/27/08		< 148.39	148	87	--	--
Well-BT	11/11/08		< 148.49	148	89	--	--
Well-BT	04/16/09		< 128.55	129	78	--	--
Well-BT	10/13/09		< 135.16	135	81	--	--
Well-BT	04/23/10		< 198.39	198	115	--	--
Well-BT	10/28/10		< 190.85	191	114	--	--
Well-BT	06/23/11	2	< 166	166	106	--	--
Well-BT	11/15/11	2	< 176	176	111	--	--
Well-BU	04/24/07		< 181.40	181	106	--	--
Well-BU	10/18/07		< 153.21	153	90	--	--
Well-BU	04/16/08		< 157.46	157	94	--	--
Well-BU	10/27/08		< 149.27	149	88	--	--
Well-BU	04/10/09	2	< 159	159	102	--	--
Well-BU	04/16/09		< 140.75	141	86	--	--
Well-BU	10/13/09		< 140.50	141	84	--	--
Well-BU	04/11/10		< 190.06	190	111	--	--
Well-BU	10/28/10		< 197.27	197	118	--	--
Well-BU	06/23/11	2	< 164	164	101	--	--
Well-BU	09/09/11	2	< 182	182	113	--	--



Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-BU	10/13/11	2	< 194	194	115	--	--
Well-BU	11/15/11	2	< 179	179	111	--	--
Well-BU	12/22/11	2	< 184	184	113	--	--
Well-BW	02/24/07		2,556	162	132	--	--
Well-BW	03/27/07		3,728	164	149	--	--
Well-BW	04/20/07		3,054	159	138	--	--
Well-BW	05/22/07		1,517	168	122	--	--
Well-BW	06/25/07	1	< 3730.00	3,730	--	--	--
Well-BW	07/12/07		1,593	146	110	--	--
Well-BW	08/22/07		1,719	149	113	--	--
Well-BW	09/21/07		1,917	149	115	--	--
Well-BW	10/09/07		2,056	150	117	--	--
Well-BW	11/20/07		1,729	179	132	--	--
Well-BW	12/19/07		1,641	147	111	--	--
Well-BW	01/16/08		1,638	141	107	--	--
Well-BW	02/25/08		1,347	142	104	--	--
Well-BW	03/13/08		1,201	138	100	--	--
Well-BW	04/02/08		1,657	151	113	--	--
Well-BW	05/28/08		762	136	93	--	--
Well-BW	06/19/08		1,299	135	99	--	--
Well-BW	07/08/08		1,569	129	100	--	--
Well-BW	08/18/08		1,549	131	101	--	--
Well-BW	09/22/08		1,915	128	104	--	--
Well-BW	10/18/08		1,748	135	106	--	--
Well-BW	11/21/08		1,347	144	105	--	--
Well-BW	12/04/08		1,803	146	113	--	--
Well-BW	01/19/09		1,224	147	105	--	--
Well-BW	02/24/09		1,659	133	103	--	--
Well-BW	03/26/09		1,879	134	106	--	--
Well-BW	04/29/09		967	133	94	--	--
Well-BW	05/12/09		1,165	138	99	--	--
Well-BW	06/08/09		791	133	91	--	--
Well-BW	07/16/09		1,343	142	104	--	--
Well-BW	08/04/09		609	144	95	--	--
Well-BW	09/23/09		853	149	102	--	--
Well-BW	10/27/09		713	139	94	--	--
Well-BW	11/19/09		538	144	94	--	--
Well-BW	12/22/09		450	147	94	--	--
Well-BW	01/25/10		1,673	196	151	--	--
Well-BW	03/24/10		457	188	122	--	--
Well-BW	04/22/10		477	204	132	--	--
Well-BW	05/25/10		557	181	120	--	--
Well-BW	06/22/10		848	196	135	--	--
Well-BW	07/22/10		572	202	133	--	--
Well-BW	08/26/10		1,170	199	143	--	--
Well-BW	09/24/10		1,040	185	132	--	--
Well-BW	10/20/10		826	205	140	--	--
Well-BW	11/24/10		1,002	192	136	--	--
Well-BW	12/09/10		1,036	145	102	--	--
Well-BW	01/13/11		1,151	183	134	--	--
Well-BW	04/27/11	2	551	185	140	--	--
Well-BW	05/10/11	2	379	178	129	--	--
Well-BW	06/27/11	2	413	192	140	--	--
Well-BW	07/20/11	2	364	189	134	--	--
Well-BW	08/11/11	2	1,940	240	250	--	--
Well-BW	10/26/11	2	917	164	147	--	--
Well-BW	11/25/11	2	590	174	138	--	--
Well-BX	02/24/07		1,958	155	120	--	--
Well-BX	03/27/07		962	151	105	--	--
Well-BX	04/20/07		883	161	110	--	--
Well-BX	05/22/07		1,265	138	102	--	--
Well-BX	06/25/07	1	< 3730.00	3,730	--	--	--
Well-BX	07/12/07		1,556	144	108	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-BX	08/22/07		1,806	147	113	--	--
Well-BX	09/21/07		1,430	150	110	--	--
Well-BX	10/09/07		996	151	104	--	--
Well-BX	11/20/07		1,270	173	122	--	--
Well-BX	12/19/07		1,378	146	107	--	--
Well-BX	01/16/08		1,097	154	107	--	--
Well-BX	02/25/08		599	142	94	--	--
Well-BX	03/13/08		536	139	91	--	--
Well-BX	04/02/08		864	151	103	--	--
Well-BX	05/28/08		770	137	93	--	--
Well-BX	06/19/08		1,115	135	97	--	--
Well-BX	07/08/08		1,354	129	97	--	--
Well-BX	08/18/08		1,189	139	101	--	--
Well-BX	09/22/08		3,213	130	120	--	--
Well-BX	10/18/08		1,585	149	111	--	--
Well-BX	11/21/08		968	144	100	--	--
Well-BX	12/04/08		1,147	132	96	--	--
Well-BX	01/19/09		640	153	100	--	--
Well-BX	02/24/09		760	148	100	--	--
Well-BX	03/26/09		5,075	127	135	--	--
Well-BX	04/29/09		314	143	90	--	--
Well-BX	05/12/09		377	139	89	--	--
Well-BX	06/08/09		295	133	84	--	--
Well-BX	07/16/09		475	141	91	--	--
Well-BX	08/04/09		269	145	91	--	--
Well-BX	09/23/09		351	145	92	--	--
Well-BX	10/27/09		284	140	88	--	--
Well-BX	11/19/09		492	132	87	--	--
Well-BX	12/22/09		305	146	92	--	--
Well-BX	01/25/10		382	198	126	--	--
Well-BX	03/24/10		237	194	121	--	--
Well-BX	04/22/10		380	204	130	--	--
Well-BX	05/25/10		371	181	117	--	--
Well-BX	06/22/10		423	195	125	--	--
Well-BX	07/22/10		854	201	138	--	--
Well-BX	08/26/10		648	188	127	--	--
Well-BX	09/24/10		1,213	183	136	--	--
Well-BX	10/20/10		696	206	138	--	--
Well-BX	11/24/10		740	179	124	--	--
Well-BX	12/09/10		554	144	94	--	--
Well-BX	01/13/11		545	183	121	--	--
Well-BX	04/27/11	2	263	184	126	--	--
Well-BX	05/10/11	2	436	177	132	--	--
Well-BX	06/27/11	2	243	193	131	--	--
Well-BX	07/20/11	2	265	191	130	--	--
Well-BX	08/11/11	2	1,510	219	210	--	--
Well-BX	10/26/11	2	822	165	144	--	--
Well-BX	11/25/11	2	425	174	130	--	--
Well-CA	02/21/07		695	161	107	--	--
Well-CA	03/15/07		932	165	113	--	--
Well-CA	04/11/07		853	160	109	--	--
Well-CA	05/22/07		665	170	111	--	--
Well-CA	06/19/07		639	138	92	--	--
Well-CA	07/12/07		710	144	96	--	--
Well-CA	08/22/07		670	147	97	--	--
Well-CA	09/20/07		599	150	98	--	--
Well-CA	10/09/07		549	153	99	--	--
Well-CA	11/19/07		437	177	112	--	--
Well-CA	12/19/07		729	146	98	--	--
Well-CA	01/16/08		792	156	104	--	--
Well-CA	02/20/08		817	141	96	--	--
Well-CA	05/28/08		1,006	137	97	--	--
Well-CA	06/19/08		992	137	97	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-CA	07/08/08		964	133	94	--	--
Well-CA	08/18/08		647	139	92	--	--
Well-CA	09/22/08		753	128	88	--	--
Well-CA	10/18/08		568	152	99	--	--
Well-CA	11/21/08		1,330	145	106	--	--
Well-CA	12/04/08		828	135	93	--	--
Well-CA	01/19/09		1,056	134	96	--	--
Well-CA	02/24/09		1,077	137	98	--	--
Well-CA	03/26/09		1,541	124	96	--	--
Well-CA	04/22/09		1,061	141	100	--	--
Well-CA	05/12/09		1,164	138	99	--	--
Well-CA	06/08/09		977	135	95	--	--
Well-CA	07/16/09		868	139	96	--	--
Well-CA	08/04/09		730	147	99	--	--
Well-CA	09/23/09		526	148	96	--	--
Well-CA	11/19/09		814	132	91	--	--
Well-CA	01/25/10		543	199	130	--	--
Well-CA	03/24/10		1,094	190	136	--	--
Well-CA	04/07/10		1,106	186	135	--	--
Well-CA	05/25/10		1,271	182	136	--	--
Well-CA	06/22/10		1,098	187	135	--	--
Well-CA	07/22/10		1,087	207	146	--	--
Well-CA	08/26/10		1,075	199	141	--	--
Well-CA	09/24/10		1,206	183	135	--	--
Well-CA	10/28/10		1,132	188	136	--	--
Well-CA	11/24/10		1,244	179	134	--	--
Well-CA	12/09/10		1,296	185	138	--	--
Well-CA	01/21/11		765	206	139	--	--
Well-CA	03/24/11	2	1,270	192	182	--	--
Well-CA	04/25/11	2	1,130	185	172	--	--
Well-CA	05/09/11	2	1,210	197	181	--	--
Well-CA	07/28/11	2	1,140	214	183	--	--
Well-CA	08/11/11	2	2,010	243	257	--	--
Well-CA	09/12/11	2	1,710	240	233	--	--
Well-CA	10/26/11	2	885	180	158	--	--
Well-CA	11/25/11	2	882	195	161	--	--
Well-CA	12/15/11	2	3,170	278	364	--	--
Well-CB	02/21/07		156	152	93	--	--
Well-CB	03/27/07		< 157.89	158	95	--	--
Well-CB	04/11/07		< 162.38	162	97	--	--
Well-CB	05/22/07		< 179.87	180	106	--	--
Well-CB	06/19/07		< 144.92	145	87	--	--
Well-CB	07/12/07		< 147.47	147	89	--	--
Well-CB	08/22/07		< 148.78	149	90	--	--
Well-CB	09/20/07		< 143.64	144	87	--	--
Well-CB	10/09/07		< 149.66	150	89	--	--
Well-CB	11/19/07		< 179.62	180	108	--	--
Well-CB	12/19/07		< 146.20	146	89	--	--
Well-CB	01/16/08		< 151.70	152	91	--	--
Well-CB	02/20/08		181	141	87	--	--
Well-CB	05/28/08		1,813	137	107	--	--
Well-CB	05/29/08	1	< 3730.00	3,730	--	--	--
Well-CB	06/19/08		1,499	143	106	--	--
Well-CB	07/08/08		2,730	129	114	--	--
Well-CB	08/18/08		1,674	139	107	--	--
Well-CB	09/22/08		6,296	146	157	--	--
Well-CB	10/18/08		2,074	150	118	--	--
Well-CB	11/21/08		1,114	134	97	--	--
Well-CB	12/04/08		861	133	92	--	--
Well-CB	01/19/09		143	133	81	--	--
Well-CB	02/24/09		903	137	96	--	--
Well-CB	03/26/09		1,551	121	94	--	--
Well-CB	04/22/09		< 144.50	145	87	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-CB	05/12/09		673	145	97	--	--
Well-CB	06/08/09		216	129	80	--	--
Well-CB	07/16/09		580	142	94	--	--
Well-CB	08/04/09		1,493	145	108	--	--
Well-CB	09/23/09		221	152	94	--	--
Well-CB	11/19/09		289	130	82	--	--
Well-CB	01/25/10		< 200.46	200	123	--	--
Well-CB	07/22/10		880	205	141	--	--
Well-CB	08/26/10		1,638	181	143	--	--
Well-CB	03/24/11	2	458	172	130	--	--
Well-CB	04/27/11	2	< 186	186	119	--	--
Well-CB	05/09/11	2	1,470	204	202	--	--
Well-CB	07/28/11	2	1,160	216	186	--	--
Well-CB	08/11/11	2	2,510	267	305	--	--
Well-CB	09/12/11	2	1,170	206	182	--	--
Well-CB	10/26/11	2	1,210	187	178	--	--
Well-CB	11/25/11	2	982	182	161	--	--
Well-CB	12/15/11	2	341	188	133	--	--
Well-K	01/29/03		< 153	153	90	--	--
Well-K	02/03/03		< 153	153	91	0.74	1060
Well-K	02/05/03		1,120	147	104	--	--
Well-K	02/12/03		506	148	96	--	--
Well-K	02/27/03		1,170	145	104	0.8	1210
Well-K	03/14/03		937	144	100	1.38	1200
Well-K	03/18/03		875	144	99	1.19	1060
Well-K	03/26/03		822	140	97	--	--
Well-K	03/31/03		677	155	103	--	--
Well-K	04/09/03		1,010	140	99	--	--
Well-K	04/17/03		1,170	141	102	--	--
Well-K	04/21/03		911	140	98	--	--
Well-K	04/29/03		833	142	97	--	--
Well-K	05/05/03		948	135	96	--	--
Well-K	05/20/03		878	145	100	--	--
Well-K	05/28/03		859	141	97	--	--
Well-K	06/04/03		921	141	98	--	--
Well-K	06/10/03		897	138	97	--	--
Well-K	06/17/03		894	141	98	--	--
Well-K	06/24/03		783	141	96	--	--
Well-K	06/30/03		914	142	99	--	--
Well-K	07/16/03		870	140	97	--	--
Well-K	07/29/03		950	140	98	--	--
Well-K	08/12/03		845	142	98	1.13	1190
Well-K	08/27/03		852	141	97	1.02	1220
Well-K	09/09/03		653	147	98	1.16	1170
Well-K	09/25/03		713	139	94	0.82	1280
Well-K	10/06/03		880	143	99	1.15	1250
Well-K	11/09/03		891	141	98	0.92	1330
Well-K	02/04/04		762	139	95	--	--
Well-K	06/10/04		777	143	97	--	--
Well-K	08/02/04		720	144	97	0.67	1160
Well-K	10/04/04		485	156	100	--	--
Well-K	11/03/04		598	148	98	1.6	1270
Well-K	12/06/04	1	< 4520.00	4,520	1,370	--	--
Well-K	01/10/05		480	152	98	2.12	1200
Well-K	02/01/05		602	139	93	--	--
Well-K	03/03/05		711	146	98	--	--
Well-K	04/05/05		740	143	97	--	--
Well-K	05/09/05		473	155	100	--	--
Well-K	07/05/05		721	150	101	--	--
Well-K	01/09/06		511	155	100	--	--
Well-K	07/10/06		404	153	97	--	--
Well-K	01/23/07		468	152	98	--	--
Well-K	07/12/07		294	144	90	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-K	01/16/08		358	138	88	--	--
Well-K	07/16/08		200	129	80	--	--
Well-K	01/19/09		186	145	89	--	--
Well-K	07/16/09		295	141	89	--	--
Well-K	01/25/10		< 200.56	201	120	--	--
Well-K	04/11/10		< 193.98	194	117	--	--
Well-K	07/09/10		< 205.06	205	126	--	--
Well-K	01/13/11		< 205.57	206	127	--	--
Well-K	07/29/11	2	< 173	173	111	--	--
Well-L	01/22/03		< 147	147	87	0.76	1020
Well-L	01/23/03		< 146	146	86	0.67	1890
Well-L	01/24/03		< 147	147	87	0.59	2000
Well-L	01/27/03		< 151	151	89	0.53	1900
Well-L	03/14/03		< 143	143	85	--	--
Well-L	03/18/03		< 143	143	86	--	--
Well-L	04/02/03		< 153	153	91	--	--
Well-L	04/08/03		< 142	142	86	--	--
Well-L	04/15/03		< 141	141	84	--	--
Well-L	04/24/03		< 139	139	82	--	--
Well-L	04/29/03		< 141	141	83	--	--
Well-L	05/05/03		< 134	134	82	--	--
Well-L	05/15/03		< 144	144	85	--	--
Well-L	05/20/03		< 144	144	86	--	--
Well-L	05/28/03		< 141	141	84	--	--
Well-L	06/04/03		< 140	140	84	--	--
Well-L	06/10/03		< 137	137	82	--	--
Well-L	06/17/03		< 141	141	84	--	--
Well-L	06/24/03		< 141	141	84	--	--
Well-L	06/30/03		< 140	140	83	--	--
Well-L	07/29/03		< 141	141	86	--	--
Well-L	08/27/03		< 142	142	84	1.95	2330
Well-L	09/25/03		< 140	140	84	1.62	2490
Well-L	12/16/03		< 146	146	86	--	--
Well-L	03/23/04		3,870	147	137	--	--
Well-L	05/04/04		< 138	138	82	--	--
Well-L	05/10/04		< 138	138	84	--	--
Well-L	05/19/04		< 148	148	88	--	--
Well-L	05/24/04		< 147	147	88	--	--
Well-L	06/10/04		140	140	85	1.56	2180
Well-L	07/07/04		753	140	96	0.81	1140
Well-L	08/02/04		< 146.74	147	88	--	--
Well-L	10/04/04		< 159.00	159	92	--	--
Well-L	11/03/04		< 142.00	142	84	--	--
Well-L	12/06/04	1	< 4520.00	4,520	1,280	--	--
Well-L	01/10/05		< 158.00	158	93	--	--
Well-L	02/01/05		< 148.00	148	87	--	--
Well-L	03/07/05		< 158.00	158	94	0.832	2400
Well-L	04/06/05		< 152.00	152	90	--	--
Well-L	05/17/05		< 150.00	150	88	--	--
Well-L	07/06/05		< 152.00	152	90	--	--
Well-L	01/09/06		< 159.66	160	95	--	--
Well-L	07/10/06		< 155.96	156	92	--	--
Well-L	01/22/07		< 154.45	154	92	--	--
Well-L	07/19/07		< 145.35	145	87	--	--
Well-L	01/17/08		< 136.64	137	81	--	--
Well-L	07/16/08		< 129.21	129	78	--	--
Well-L	01/19/10		< 198.79	199	118	--	--
Well-L	04/07/10		510	189	124	--	--
Well-L	06/28/10		< 184.85	185	111	--	--
Well-L	07/14/10		< 208.82	209	123	--	--
Well-L	01/21/11		< 206.07	206	124	--	--
Well-L	07/29/11	2	< 176	176	109	--	--
Well-M	02/12/03		18,700	170	270	0.25	23

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-M	02/28/03		14,400	146	219	0.17	27.7
Well-M	03/03/03		9,420	140	181	0.16	26.6
Well-M	03/10/03		15,000	144	223	0.21	22.2
Well-M	03/17/03		10,600	142	192	--	--
Well-M	03/24/03		10,100	144	189	--	--
Well-M	03/31/03		11,000	154	203	--	--
Well-M	04/07/03		9,260	136	181	--	--
Well-M	04/14/03		9,600	135	183	--	--
Well-M	04/21/03		8,880	140	180	--	--
Well-M	04/30/03		8,800	143	180	--	--
Well-M	07/09/03		126,000	138	602	--	--
Well-M	07/23/03		113,000	141	573	--	--
Well-M	08/06/03	1	73,700	--	--	--	--
Well-M	08/20/03		62,000	141	430	0.27	22.5
Well-M	09/04/03		39,700	143	346	0.22	22.8
Well-M	09/16/03		33,600	141	320	0.32	24.5
Well-M	10/03/03		25,400	146	289	0.27	25
Well-M	10/20/03	1	16,380	--	--	--	--
Well-M	10/30/03	1	22,700	--	--	--	--
Well-M	12/04/03		11,200	146	198	--	--
Well-M	01/06/04		8,900	145	183	--	--
Well-M	01/22/04		7,340	140	164	--	--
Well-M	02/17/04	1	11,300	--	--	--	--
Well-M	03/05/04		7,170	146	168	0.15	22
Well-M	04/29/04		6,510	141	159	0.12	21
Well-M	05/11/04		2,350	141	117	--	--
Well-M	06/10/04		3,610	141	133	--	--
Well-M	07/08/04		5,090	144	150	--	--
Well-M	08/17/04		3,857	143	136	--	--
Well-M	09/08/04		3,745	146	137	--	--
Well-M	10/04/04		3,036	144	126	--	--
Well-M	11/03/04		2,818	143	125	--	--
Well-M	12/06/04	1	< 4520.00	4,520	1,390	--	--
Well-M	01/19/05	1	37,200	3,950	2,890	--	--
Well-M	02/09/05	1	42,300	4,660	3,240	--	--
Well-M	03/02/05	1	53,300	3,360	3,400	3.33	24.3
Well-M	04/11/05	1	24,600	4,220	2,550	--	--
Well-M	05/03/05		10,031	147	192	--	--
Well-M	06/06/05		15,169	146	225	--	--
Well-M	07/12/05	1	78,400	3,750	4,070	--	--
Well-M	08/15/05	1	79,400	3,905	4,114	--	--
Well-M	09/06/05	1	68,900	4,940	4,037	--	--
Well-M	10/10/05		17,049	148	240	--	--
Well-M	11/14/05		12,528	158	219	--	--
Well-M	12/13/05		8,257	148	178	--	--
Well-M	01/17/06		6,932	152	170	--	--
Well-M	02/21/06		7,371	153	174	--	--
Well-M	02/22/06	1	7,510	3,550	1,750	--	--
Well-M	03/20/06	1	4,200	3,730	1,530	--	--
Well-M	03/26/06		< 141	141	86	--	--
Well-M	04/11/06		4,067	155	144	--	--
Well-M	05/16/06		4,592	152	148	--	--
Well-M	06/19/06		4,712	155	150	--	--
Well-M	07/18/06		5,553	157	161	--	--
Well-M	08/08/06		4,912	161	157	--	--
Well-M	09/18/06		4,132	161	148	--	--
Well-M	10/10/06		3,565	157	139	--	--
Well-M	11/01/06		4,077	170	154	--	--
Well-M	12/18/06		3,887	162	147	--	--
Well-M	01/13/07		4,517	150	148	--	--
Well-M	02/23/07		4,796	168	161	--	--
Well-M	03/08/07		5,085	158	160	--	--
Well-M	04/20/07		11,617	170	225	--	--



Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-M	05/15/07		10,479	181	219	--	--
Well-M	06/18/07		8,426	147	177	--	--
Well-M	07/18/07		7,443	146	168	--	--
Well-M	08/15/07		6,066	140	154	--	--
Well-M	09/20/07		5,271	150	153	--	--
Well-M	10/03/07		5,612	160	164	--	--
Well-M	11/14/07		4,505	124	133	--	--
Well-M	12/12/07		4,617	151	146	--	--
Well-M	01/17/08		4,713	140	141	--	--
Well-M	02/06/08		4,733	139	141	--	--
Well-M	03/18/08		4,946	145	147	--	--
Well-M	04/02/08		4,755	142	142	--	--
Well-M	05/08/08		4,893	147	146	--	--
Well-M	06/19/08		4,969	135	140	--	--
Well-M	07/07/08		4,980	129	137	--	--
Well-M	08/06/08		4,755	140	140	--	--
Well-M	09/02/08		4,523	134	135	--	--
Well-M	11/19/08		4,000	135	131	--	--
Well-M	12/15/08		4,347	149	142	--	--
Well-M	01/08/09		46,230	145	365	--	--
Well-M	01/27/09		43,626	150	362	--	--
Well-M	02/11/09		41,815	151	358	--	--
Well-M	02/18/09		40,009	146	343	--	--
Well-M	02/25/09		32,998	145	316	--	--
Well-M	03/05/09		31,690	147	312	--	--
Well-M	03/10/09		31,601	145	310	--	--
Well-M	03/19/09	1	58,900	3,210	4,170	--	--
Well-M	03/26/09		28,378	142	291	--	--
Well-M	03/30/09		34,589	145	319	--	--
Well-M	04/08/09		36,360	146	330	--	--
Well-M	04/16/09		32,532	134	302	--	--
Well-M	04/22/09		31,612	134	299	--	--
Well-M	04/29/09		27,462	134	279	--	--
Well-M	05/11/09		35,042	143	319	--	--
Well-M	05/26/09	1	53,600	3,530	3,860	--	--
Well-M	06/08/09	1	98,500	3,920	5,090	--	--
Well-M	09/02/09		61,322	147	421	--	--
Well-M	10/08/09		32,001	140	307	--	--
Well-M	11/17/09		34,430	145	317	--	--
Well-M	12/16/09		30,151	146	301	--	--
Well-M	01/12/10		21,463	195	361	--	--
Well-M	02/18/10		21,110	186	350	--	--
Well-M	03/10/10		22,631	195	372	--	--
Well-M	04/12/10		18,523	187	332	--	--
Well-M	05/25/10		14,834	181	301	--	--
Well-M	06/21/10		12,812	189	283	--	--
Well-M	07/09/10		11,950	188	274	--	--
Well-M	08/25/10		10,447	201	269	--	--
Well-M	09/17/10		9,913	202	265	--	--
Well-M	10/11/10		9,511	186	251	--	--
Well-M	11/10/10		9,143	197	256	--	--
Well-M	12/02/10		8,326	184	238	--	--
Well-M	01/13/11		6,875	208	231	--	--
Well-M	03/25/11	2	31,600	842	3,210	--	--
Well-M	04/19/11	2	45,900	976	4,250	--	--
Well-M	05/10/11	2	54,000	952	4,650	--	--
Well-M	06/10/11	2	40,600	937	4,100	--	--
Well-M	07/20/11	2	27,100	884	2,760	--	--
Well-M	09/01/11	2	23,200	746	2,360	--	--
Well-M	10/20/11	2	16,600	591	1,700	--	--
Well-M	11/17/11	2	12,100	585	1,260	--	--
Well-M	12/08/11	2	10,700	498	1,120	--	--
Well-N	01/30/03		69,000	187	505	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-N	02/10/03		15,600	149	229	0.28	10.6
Well-N	03/04/03		2,770	144	123	0.2	34.3
Well-N	03/14/03		2,670	143	121	0.41	24
Well-N	03/17/03		3,830	142	134	0.36	20.5
Well-N	03/25/03		3,480	139	129	--	--
Well-N	04/04/03		3,560	152	137	--	--
Well-N	04/11/03		3,730	137	131	--	--
Well-N	04/16/03		3,910	142	134	--	--
Well-N	04/25/03		4,600	138	140	--	--
Well-N	04/30/03		9,370	144	185	--	--
Well-N	05/06/03		9,830	137	186	--	--
Well-N	05/21/03		7,480	144	169	--	--
Well-N	05/27/03		7,130	141	165	--	--
Well-N	06/04/03		5,480	141	150	--	--
Well-N	06/11/03		4,990	137	144	--	--
Well-N	06/19/03		5,680	142	153	--	--
Well-N	06/25/03		5,060	142	146	--	--
Well-N	07/10/03		5,020	137	144	--	--
Well-N	07/25/03		5,220	141	148	--	--
Well-N	08/07/03		5,110	145	148	0.21	23.5
Well-N	08/20/03		5,850	140	153	0.25	20.4
Well-N	09/04/03		5,660	145	154	0.33	22.8
Well-N	09/17/03		6,160	141	157	0.27	22.4
Well-N	10/03/03		5,740	145	157	0.24	24
Well-N	11/03/03	1	5,560	--	--	--	--
Well-N	12/12/03	1	6,010	--	--	--	--
Well-N	01/20/04		6,050	143	155	--	--
Well-N	02/11/04		5,950	139	154	--	--
Well-N	03/18/04		6,550	145	162	--	--
Well-N	04/08/04		7,180	137	164	0.23	17
Well-N	05/12/04		8,210	147	178	--	--
Well-N	06/03/04		9,890	152	196	--	--
Well-N	07/20/04		5,220	141	148	--	--
Well-N	08/17/04		14,303	161	235	--	--
Well-N	09/14/04		11,642	148	207	--	--
Well-N	10/25/04		10,619	157	206	--	--
Well-N	11/23/04		9,150	149	187	--	--
Well-N	12/27/04	1	7,660	4,060	1,720	--	--
Well-N	01/12/05		9,550	154	195	--	--
Well-N	02/22/05		9,442	146	186	--	--
Well-N	03/15/05		9,712	153	195	0.11	18
Well-N	04/19/05		9,781	147	193	--	--
Well-N	05/17/05		9,060	147	185	--	--
Well-N	06/21/05		9,302	145	183	--	--
Well-N	07/12/05		8,147	147	177	--	--
Well-N	08/15/05		8,152	157	184	--	--
Well-N	09/20/05		7,502	151	174	--	--
Well-N	10/10/05		8,280	149	180	--	--
Well-N	11/14/05		8,210	151	180	--	--
Well-N	12/20/05		5,896	157	162	--	--
Well-N	01/23/06		7,400	149	171	--	--
Well-N	02/23/06	1	8,410	3,920	1,810	--	--
Well-N	03/21/06	1	13,500	3,730	2,130	--	--
Well-N	04/11/06		8,393	164	189	--	--
Well-N	05/16/06		8,588	152	185	--	--
Well-N	06/20/06		15,289	150	232	--	--
Well-N	07/18/06		6,660	159	170	--	--
Well-N	08/21/06		13,776	154	224	--	--
Well-N	09/07/06		22,714	155	277	--	--
Well-N	09/18/06	1	14,700	4,480	2,250	--	--
Well-N	09/19/06		14,486	160	232	--	--
Well-N	10/09/06		28,037	159	310	--	--
Well-N	11/01/06		11,023	165	213	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-N	11/15/06		10,407	197	232	--	--
Well-N	12/07/06		9,280	211	233	--	--
Well-N	12/18/06		10,163	154	199	--	--
Well-N	01/13/07		6,325	148	165	--	--
Well-N	01/22/07		6,812	157	173	--	--
Well-N	02/06/07		11,587	189	234	--	--
Well-N	02/23/07		12,517	167	227	--	--
Well-N	03/08/07		13,252	146	218	--	--
Well-N	04/20/07		6,332	160	172	--	--
Well-N	05/15/07		8,139	150	177	--	--
Well-N	06/19/07		7,554	145	169	--	--
Well-N	07/18/07		8,865	99	168	--	--
Well-N	08/15/07		9,045	148	182	--	--
Well-N	09/21/07		9,711	147	188	--	--
Well-N	10/03/07		21,390	145	267	--	--
Well-N	10/17/07		22,016	153	279	--	--
Well-N	11/14/07		18,607	124	237	--	--
Well-N	12/12/07		12,763	145	207	--	--
Well-N	01/17/08		8,049	139	170	--	--
Well-N	01/28/08		7,780	139	167	--	--
Well-N	02/06/08		7,641	148	172	--	--
Well-N	02/20/08		6,853	138	160	--	--
Well-N	03/13/08		6,278	149	161	--	--
Well-N	03/18/08		6,956	137	160	--	--
Well-N	04/02/08		7,427	150	171	--	--
Well-N	04/23/08		7,017	143	163	--	--
Well-N	05/08/08		6,949	139	159	--	--
Well-N	06/24/08		8,406	135	168	--	--
Well-N	07/07/08		9,346	144	183	--	--
Well-N	08/07/08		9,026	142	178	--	--
Well-N	08/21/08		9,675	129	176	--	--
Well-N	09/02/08		9,899	128	178	--	--
Well-N	11/14/08		8,991	142	177	--	--
Well-N	12/08/08		8,845	133	172	--	--
Well-N	01/08/09		9,873	133	179	--	--
Well-N	02/25/09		8,830	148	180	--	--
Well-N	03/26/09		10,761	133	185	--	--
Well-N	04/16/09		7,695	138	165	--	--
Well-N	05/20/09		9,024	145	179	--	--
Well-N	06/10/09		31,114	133	298	--	--
Well-N	07/21/09		10,848	132	186	--	--
Well-N	08/18/09		11,347	138	191	--	--
Well-N	09/23/09		10,342	148	191	--	--
Well-N	10/20/09		10,276	139	186	--	--
Well-N	11/17/09		10,133	146	188	--	--
Well-N	12/16/09		10,016	154	193	--	--
Well-N	01/12/10		11,184	194	273	--	--
Well-N	02/22/10		10,689	185	260	--	--
Well-N	03/17/10		10,910	193	269	--	--
Well-N	04/28/10		11,146	186	269	--	--
Well-N	05/25/10		10,268	179	256	--	--
Well-N	06/21/10		13,174	193	293	--	--
Well-N	07/16/10		11,135	184	266	--	--
Well-N	08/11/10		9,994	199	263	--	--
Well-N	09/13/10		11,421	201	280	--	--
Well-N	10/11/10		10,321	188	261	--	--
Well-N	11/10/10		9,608	201	265	--	--
Well-N	12/02/10		9,474	183	250	--	--
Well-N	01/14/11		7,983	205	242	--	--
Well-N	03/25/11	2	8,270	439	870	--	--
Well-N	04/27/11	2	9,530	519	1,000	--	--
Well-N	05/10/11	2	10,300	493	1,080	--	--
Well-N	06/10/11	2	11,800	511	1,220	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
WELL-N	07/20/11	2	12,600	605	1,320	--	--
Well-N	08/17/11	2	15,900	638	1,640	--	--
Well-N	09/15/11	2	18,700	684	1,920	--	--
Well-N	12/08/11	2	13,900	563	1,440	--	--
Well-O	01/29/03		1,400	143	106	--	--
Well-O	02/10/03		10,300	149	193	0.1	13.2
Well-O	02/21/03		7,370	149	170	0.09	15.4
Well-O	02/28/03		11,700	147	201	0.09	17
Well-O	03/04/03		8,800	142	178	0.07	20.8
Well-O	03/13/03		12,300	143	204	0.11	15.5
Well-O	03/17/03		11,000	155	206	0.08	11.9
Well-O	03/25/03		8,660	141	178	--	--
Well-O	03/31/03		8,010	155	180	--	--
Well-O	04/07/03		7,290	137	165	--	--
Well-O	04/15/03		12,400	141	204	--	--
Well-O	04/21/03		11,800	139	201	--	--
Well-O	04/29/03		10,500	140	191	--	--
Well-O	05/06/03		10,200	134	187	--	--
Well-O	05/21/03		11,100	143	197	--	--
Well-O	05/28/03		12,700	140	207	--	--
Well-O	06/03/03		12,200	140	202	--	--
Well-O	06/10/03		12,800	137	206	--	--
Well-O	06/17/03		10,300	141	190	--	--
Well-O	06/24/03		13,400	141	212	--	--
Well-O	07/09/03		9,100	139	182	--	--
Well-O	07/25/03		7,710	139	169	--	--
Well-O	08/06/03		8,300	148	178	0.24	14.4
Well-O	08/20/03		7,440	142	168	0.31	13.9
Well-O	09/03/03		6,400	143	159	0.28	13.5
Well-O	09/15/03		7,730	141	170	0.27	12.9
Well-O	10/03/03		6,980	145	168	0.23	23.2
Well-O	10/20/03		6,700	141	161	0.2	47
Well-O	11/17/03	1	23,400	--	--	--	--
Well-O	12/18/03		5,320	145	150	--	--
Well-O	01/14/04		3,750	141	132	--	--
Well-O	02/09/04	1	24,200	--	--	--	--
Well-O	03/03/04	1	21,800	--	--	--	--
Well-O	03/23/04	1	21,000	--	--	--	--
Well-O	04/06/04		19,300	136	247	0.281	120
Well-O	05/03/04		20,400	140	253	--	--
Well-O	05/11/04		20,700	140	254	--	--
Well-O	06/10/04	1	28,200	4,974	2,855	--	--
Well-O	06/24/04		14,174	141	218	--	--
Well-O	07/13/04		9,510	141	185	--	--
Well-O	07/29/04		6,739	146	163	--	--
Well-O	08/31/04		7,307	159	179	--	--
Well-O	09/22/04		6,637	146	167	--	--
Well-O	10/04/04		5,543	140	151	--	--
Well-O	10/18/04		5,874	150	161	--	--
Well-O	11/22/04		14,027	144	218	--	--
Well-O	12/16/04	1	15,000	3,230	1,950	--	--
Well-O	01/18/05		18,840	152	257	0.297	22.4
Well-O	02/08/05	1	25,400	4,660	2,640	--	--
Well-O	03/08/05		10,911	139	195	--	--
Well-O	04/11/05		7,096	148	170	--	--
Well-O	05/10/05		6,722	148	166	--	--
Well-O	06/07/05		5,803	147	156	--	--
Well-O	07/06/05		3,827	145	136	--	--
Well-O	07/19/05		4,999	156	154	--	--
Well-O	08/02/05		4,295	148	143	--	--
Well-O	09/07/05		5,400	146	152	--	--
Well-O	10/04/05		4,326	153	146	--	--
Well-O	11/02/05		14,530	151	224	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-O	12/09/05		15,734	152	235	--	--
Well-O	01/16/06	1	21,900	3,550	2,460	--	--
Well-O	02/07/06		18,595	157	254	--	--
Well-O	03/07/06	1	8,560	3,310	1,720	--	--
Well-O	04/04/06		7,340	161	178	--	--
Well-O	05/02/06		9,369	152	191	--	--
Well-O	06/19/06		9,417	155	194	--	--
Well-O	07/17/06		9,533	151	188	--	--
Well-O	08/21/06		4,760	152	150	--	--
Well-O	09/18/06		4,237	158	147	--	--
Well-O	10/05/06		12,747	157	219	--	--
Well-O	11/02/06		19,760	169	275	--	--
Well-O	12/07/06		9,060	162	197	--	--
Well-O	01/13/07		29,157	147	306	--	--
Well-O	02/24/07		25,296	153	292	--	--
Well-O	03/07/07		45,398	155	393	--	--
Well-O	04/20/07		43,612	163	393	--	--
Well-O	05/16/07		15,782	180	257	--	--
Well-O	06/18/07		15,749	148	229	--	--
Well-O	07/19/07		8,610	145	177	--	--
Well-O	08/15/07		9,155	142	178	--	--
Well-O	09/19/07		1,525	146	109	--	--
Well-O	10/04/07		2,619	183	146	--	--
Well-O	11/19/07		6,211	149	167	--	--
Well-O	12/12/07		39,793	142	340	--	--
Well-O	01/16/08		27,207	144	291	--	--
Well-O	02/07/08		32,440	149	317	--	--
Well-O	03/12/08		37,518	149	340	--	--
Well-O	04/01/08		26,462	148	289	--	--
Well-O	05/19/08		13,799	146	215	--	--
Well-O	05/27/08		10,565	150	195	--	--
Well-O	06/11/08		10,568	146	192	--	--
Well-O	06/23/08		9,377	135	175	--	--
Well-O	07/15/08		9,388	128	173	--	--
Well-O	07/28/08		12,170	143	203	--	--
Well-O	08/18/08	1	< 4530.00	4,530	--	--	--
Well-O	08/25/08	1	9,760	4,280	1,930	--	--
Well-O	09/02/08		9,780	134	178	--	--
Well-O	10/17/08		10,128	135	184	--	--
Well-O	11/18/08		28,061	135	285	--	--
Well-O	12/16/08		35,495	152	333	--	--
Well-O	01/09/09	1	63,100	4,530	4,170	--	--
Well-O	01/27/09		50,098	140	379	--	--
Well-O	02/24/09		45,267	149	372	--	--
Well-O	03/16/09	1	115,000	3,210	5,390	--	--
Well-O	04/01/09	1	97,100	5,160	5,070	--	--
Well-O	05/13/09		23,198	145	266	--	--
Well-O	05/26/09		18,107	146	240	--	--
Well-O	06/03/09		17,479	135	231	--	--
Well-O	06/15/09		17,711	131	229	--	--
Well-O	07/21/09		10,671	134	186	--	--
Well-O	07/29/09		13,279	140	206	--	--
Well-O	08/18/09		10,124	140	185	--	--
Well-O	08/25/09		12,355	139	200	--	--
Well-O	09/23/09		14,474	150	221	--	--
Well-O	10/20/09		15,862	138	222	--	--
Well-O	11/04/09		16,153	147	228	--	--
Well-O	12/22/09		14,064	140	210	--	--
Well-O	01/13/10		29,586	189	413	--	--
Well-O	03/17/10		33,597	193	443	--	--
Well-O	04/22/10		20,473	204	357	--	--
Well-O	05/21/10		22,691	180	363	--	--
Well-O	06/17/10		11,355	186	270	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-O	07/22/10		25,422	185	384	--	--
Well-O	08/25/10		8,846	200	251	--	--
Well-O	09/17/10		2,877	187	167	--	--
Well-O	10/18/10		9,390	187	250	--	--
Well-O	11/24/10		10,463	194	268	--	--
Well-O	12/09/10		7,577	189	233	--	--
Well-O	01/20/11		65,583	209	616	--	--
Well-O	03/04/11	2	34,800	879	3,520	--	--
Well-O	04/19/11	2	15,500	656	1,600	--	--
Well-O	05/05/11	2	11,900	528	1,240	--	--
Well-O	06/16/11	2	4,130	311	457	--	--
Well-O	07/13/11	2	9,460	530	1,000	--	--
Well-O	09/10/11	2	6,460	413	695	--	--
Well-O	10/20/11	2	2,690	251	315	--	--
Well-O	11/17/11	2	7,090	458	764	--	--
Well-P	02/05/03		--	--	--	0.18	1600
Well-P	02/06/03		< 153	153	91	--	--
Well-P	02/21/03		< 148	148	91	--	--
Well-P	03/13/03		303	143	90	0.2	--
Well-P	03/18/03		465	143	92	--	--
Well-P	03/26/03		< 143	143	87	--	--
Well-P	04/03/03		< 154	154	9	--	--
Well-P	04/24/03		< 139	139	82	--	--
Well-P	04/29/03		< 144	144	85	--	--
Well-P	05/05/03		< 134	134	82	--	--
Well-P	05/20/03		< 145	145	85	--	--
Well-P	05/30/03		< 142	142	85	--	--
Well-P	06/04/03		< 141	141	84	--	--
Well-P	06/10/03		< 138	138	84	--	--
Well-P	06/17/03		< 141	141	85	--	--
Well-P	06/24/03		< 141	141	85	--	--
Well-P	07/16/03		< 141	141	85	--	--
Well-P	08/13/03		< 140	140	84	0.48	1570
Well-P	09/08/03		< 147	147	87	0.65	1560
Well-P	09/09/03	1	< 7430	7,430	--	--	--
Well-P	10/06/03		< 143	143	86	0.48	1610
Well-P	01/22/04		< 144	144	86	--	--
Well-P	04/28/04		< 139	139	83	0.441	1550
Well-P	08/03/04		< 156.63	157	92	0.292	1540
Well-P	10/05/04		< 148.51	149	87	--	--
Well-P	11/03/04		< 147.00	147	87	0.955	1690
Well-P	12/14/04	1	< 3230.00	3,230	1,010	--	--
Well-P	01/11/05		< 162.00	162	95	1.02	1580
Well-P	02/09/05		< 148.00	148	88	--	--
Well-P	03/03/05		< 158.00	158	92	--	--
Well-P	04/12/05		< 149.00	149	89	--	--
Well-P	05/10/05		< 148.00	148	87	--	--
Well-P	07/11/05		< 151.00	151	89	--	--
Well-P	01/23/06		< 150.49	150	89	--	--
Well-P	07/24/06		< 155.15	155	93	--	--
Well-P	01/14/07		< 154.34	154	92	--	--
Well-P	07/19/07		< 146.19	146	86	--	--
Well-P	01/24/08		< 136.96	137	81	--	--
Well-P	07/16/08		< 143.88	144	86	--	--
Well-P	01/27/09		< 149.55	150	88	--	--
Well-P	07/22/09		< 142.18	142	85	--	--
Well-P	01/19/10		< 198.97	199	117	--	--
Well-P	04/14/10		308	194	123	--	--
Well-P	06/29/10		< 196.94	197	119	--	--
Well-P	07/22/10		< 202.5	203	122	--	--
Well-P	01/20/11		< 204.89	205	121	--	--
Well-P	07/29/11	2	< 177	177	108	--	--
Well-Q	02/06/03		< 147	147	88	--	--



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Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-Q	03/11/03		< 142	142	85	--	--
Well-Q	03/12/03		< 141	141	84	--	--
Well-Q	03/14/03		< 143	143	85	--	--
Well-Q	03/19/03		< 143	143	85	--	--
Well-Q	03/24/03		< 143	143	85	--	--
Well-Q	04/23/03		< 139	139	82	--	--
Well-Q	04/30/03		< 142	142	84	--	--
Well-Q	05/06/03		< 135	135	81	--	--
Well-Q	05/12/03		< 144	144	84	--	--
Well-Q	05/19/03		< 144	144	84	--	--
Well-Q	05/30/03		< 140	140	84	--	--
Well-Q	06/05/03		< 139	139	83	--	--
Well-Q	06/11/03		< 138	138	83	--	--
Well-Q	06/16/03		< 141	141	84	--	--
Well-Q	06/23/03		< 143	143	85	--	--
Well-Q	07/17/03		< 141	141	85	--	--
Well-Q	08/13/03		< 142	142	85	0.32	1830
Well-Q	09/10/03		< 148	148	89	0.25	1790
Well-Q	10/07/03		< 144	144	85	0.33	1920
Well-Q	11/09/03		< 142	142	86	0.32	1930
Well-Q	01/08/04		< 142	142	83	0.3	1850
Well-Q	02/04/04		< 139	139	84	--	--
Well-Q	03/22/04		< 144	144	85	0.285	1720
Well-Q	06/04/04		< 156	156	91	--	--
Well-Q	08/02/04		< 146	146	88	0.28	1630
Well-Q	10/04/04		< 152.75	153	87	--	--
Well-Q	11/03/04		< 150.00	150	88	0.312	1960
Well-Q	12/29/04	1	< 4020.00	4,020	1,420	--	--
Well-Q	01/31/05		213	142	89	--	--
Well-Q	02/15/05	1	< 3910.00	3,910	1,130	--	--
Well-Q	03/14/05		< 151.00	151	91	0.3	1730
Well-Q	03/15/05		151	151	91	--	1730
Well-Q	04/18/05		< 145.00	145	85	--	--
Well-Q	05/16/05		< 151.00	151	88	--	--
Well-Q	07/19/05		< 150.00	150	89	--	--
Well-Q	01/23/06		< 150.36	150	90	--	--
Well-Q	07/10/06		< 158.63	159	93	--	--
Well-Q	01/08/07		< 156.62	157	92	--	--
Well-Q	07/24/07		< 145.87	146	86	--	--
Well-Q	01/28/08		< 137.05	137	81	--	--
Well-Q	07/24/08		< 138.73	139	83	--	--
Well-Q	01/27/09		< 146.48	146	86	--	--
Well-Q	07/29/09		< 142.31	142	83	--	--
Well-Q	01/26/10		< 193.55	194	116	--	--
Well-Q	04/23/10		< 186.30	186	113	--	--
Well-Q	07/23/10		< 203.61	204	118	--	--
Well-Q	01/31/11		< 203.3	203	121	--	--
Well-Q	07/28/11	2	< 172	172	104	--	--
Well-R	02/26/03		13,900	145	218	0.29	42.6
Well-R	03/03/03		7,490	140	166	0.23	37.3
Well-R	03/10/03		6,170	145	158	0.27	28.7
Well-R	03/17/03		7,270	144	168	0.27	33.4
Well-R	03/25/03		6,810	140	162	--	--
Well-R	04/01/03		6,740	153	169	--	--
Well-R	04/08/03		5,940	135	152	--	--
Well-R	04/14/03		5,890	142	154	--	--
Well-R	04/22/03		5,800	139	153	--	--
Well-R	04/30/03		5,260	141	148	--	--
Well-R	07/09/03		3,270	136	125	--	--
Well-R	07/25/03		2,940	141	124	--	--
Well-R	08/06/03		2,860	144	124	0.46	53.6
Well-R	08/20/03		2,860	142	124	0.51	48.1
Well-R	09/04/03		2,990	153	132	0.57	45.6

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-R	09/17/03		2,800	141	122	0.47	49.6
Well-R	10/03/03		2,740	146	125	0.4	51.8
Well-R	10/21/03		2,650	140	120	--	--
Well-R	12/05/03		2,550	147	122	0.37	49.9
Well-R	01/22/04		2,210	143	116	--	--
Well-R	02/09/04		2,230	140	115	--	--
Well-R	03/05/04		2,200	146	117	--	--
Well-R	04/28/04		--	--	--	0.265	41.6
Well-R	04/28/04	1	< 5780	5,780	1,649	--	--
Well-R	05/24/04		2,420	144	120	0.3	41
Well-R	06/10/04		2,390	148	123	0.24	42
Well-R	07/08/04		2,050	147	118	--	--
Well-R	08/17/04		2,124	159	126	--	--
Well-R	09/29/04		2,000	156	122	--	--
Well-R	10/11/04		1,708	143	110	--	--
Well-R	11/08/04		1,696	151	115	--	--
Well-R	12/27/04	1	< 4053.00	4,053	1,290	--	--
Well-R	01/19/05		2,420	159	129	--	--
Well-R	02/09/05		2,450	150	123	0.122	45.1
Well-R	03/15/05		2,704	147	125	--	--
Well-R	04/11/05		2,742	157	132	--	--
Well-R	05/03/05		2,755	151	128	--	--
Well-R	06/22/05		2,736	151	127	--	--
Well-R	07/20/05		2,486	147	122	--	--
Well-R	08/16/05		2,752	155	130	--	--
Well-R	09/20/05		2,673	159	131	--	--
Well-R	10/10/05		2,435	149	123	--	--
Well-R	11/14/05		2,149	148	119	--	--
Well-R	12/13/05	1	< 4370.00	4,370	--	--	--
Well-R	01/17/06		2,131	151	120	--	--
Well-R	02/21/06		2,262	153	122	--	--
Well-R	03/20/06	1	4,350	3,730	1,560	--	--
Well-R	04/11/06		2,192	160	125	--	--
Well-R	05/16/06		2,010	150	118	--	--
Well-R	06/19/06		2,067	160	124	--	--
Well-R	07/18/06		2,090	156	123	--	--
Well-R	08/08/06		1,940	148	116	--	--
Well-R	09/18/06		2,138	162	126	--	--
Well-R	10/10/06		1,943	157	121	--	--
Well-R	11/15/06		2,395	164	132	--	--
Well-R	12/18/06		3,092	154	134	--	--
Well-R	01/13/07		3,208	154	135	--	--
Well-R	02/23/07		3,563	167	146	--	--
Well-R	03/08/07		3,487	161	143	--	--
Well-R	04/20/07		3,180	157	138	--	--
Well-R	05/15/07		2,567	138	118	--	--
Well-R	06/18/07		2,844	142	122	--	--
Well-R	07/18/07		2,862	145	124	--	--
Well-R	08/15/07		3,000	143	125	--	--
Well-R	09/20/07		3,104	144	127	--	--
Well-R	10/03/07		2,799	149	129	--	--
Well-R	11/14/07		3,029	141	124	--	--
Well-R	12/12/07		2,951	145	125	--	--
Well-R	01/17/08		2,892	140	122	--	--
Well-R	02/06/08		2,941	150	128	--	--
Well-R	03/18/08		3,159	150	131	--	--
Well-R	04/02/08		3,294	154	134	--	--
Well-R	05/08/08		3,173	155	133	--	--
Well-R	06/19/08		3,196	135	122	--	--
Well-R	07/07/08		3,077	140	124	--	--
Well-R	08/06/08		3,158	142	126	--	--
Well-R	09/02/08		3,075	134	120	--	--
Well-R	11/19/08		2,998	149	128	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-R	12/15/08		3,075	150	129	--	--
Well-R	01/08/09		2,986	145	125	--	--
Well-R	02/11/09		3,100	135	122	--	--
Well-R	03/05/09		5,052	145	146	--	--
Well-R	04/08/09		3,037	144	125	--	--
Well-R	05/11/09		3,423	143	128	--	--
Well-R	06/08/09		3,596	131	124	--	--
Well-R	09/02/09		3,454	148	132	--	--
Well-R	10/08/09		3,291	138	125	--	--
Well-R	11/17/09		3,419	145	129	--	--
Well-R	12/16/09		3,877	150	137	--	--
Well-R	01/12/10		3,967	193	186	--	--
Well-R	03/10/10		3,958	195	186	--	--
Well-R	04/12/10		4,455	186	188	--	--
Well-R	05/25/10		4,308	181	186	--	--
Well-R	06/18/10		4,556	185	190	--	--
Well-R	07/09/10		4,917	185	196	--	--
Well-R	08/25/10		5,696	200	214	--	--
Well-R	09/13/10		5,963	187	210	--	--
Well-R	10/11/10		6,599	204	228	--	--
Well-R	11/10/10		6,574	194	224	--	--
Well-R	12/02/10		6,628	186	220	--	--
Well-R	01/13/11		6,214	210	224	--	--
Well-R	03/25/11	2	6,990	399	740	--	--
Well-R	04/19/11	2	6,330	426	685	--	--
Well-R	05/10/11	2	5,100	349	556	--	--
Well-R	06/10/11	2	5,670	359	609	--	--
Well-R	07/20/11	2	6,060	431	663	--	--
Well-R	09/01/11	2	6,960	418	743	--	--
Well-R	10/20/11	2	4,980	329	540	--	--
Well-R	11/17/11	2	5,470	360	591	--	--
Well-R	12/08/11	2	5,600	366	605	--	--
Well-S	07/09/03		3,530,000	134	3,120	--	--
Well-S	08/07/03	1	2,920,000	--	--	--	--
Well-S	08/21/03	1	2,570,000	--	--	--	--
Well-S	09/03/03	1	2,390,000	--	--	--	--
Well-S	09/15/03	1	2,340,000	--	--	--	--
Well-S	10/04/03	1	2,180,000	--	--	--	--
Well-S	10/13/03	1	2,030,000	--	--	--	--
Well-S	10/20/03	1	2,060,000	--	--	--	--
Well-S	11/09/03	1	2,040,000	--	--	--	--
Well-S	11/26/03	1	2,660,000	--	--	--	--
Well-S	01/20/04	1	1,420,000	--	--	--	--
Well-S	02/17/04	1	1,250,000	--	--	--	--
Well-S	03/18/04	1	1,220,000	--	--	--	--
Well-S	04/06/04	1	1,160,000	4,706	15,206	--	--
Well-S	05/04/04	1	1,100,000	5,589	15,212	44.5	34.6
Well-S	05/19/04	1	889,000	5,780	13,380	--	--
Well-S	06/25/04	1	1,020,000	5,270	14,500	--	--
Well-S	07/13/04	1	955,000	3,620	13,800	--	--
Well-S	08/09/04	1	856,000	4,850	13,000	--	44.9
Well-S	09/13/04	1	845,000	4,560	13,000	--	--
Well-S	11/08/04	1	820,000	3,230	12,800	--	--
Well-S	12/28/04	1	661,000	4,060	11,300	--	--
Well-S	01/11/05	1	753,000	3,910	12,100	--	--
Well-S	02/15/05	1	724,000	3,910	11,900	--	--
Well-S	03/07/05	1	364,000	3,490	8,570	--	--
Well-S	03/14/05	1	175,000	4,320	6,110	--	--
Well-S	03/23/05	1	182,000	3,790	6,190	--	--
Well-S	03/28/05	1	40,500	6,280	3,540	--	--
Well-S	04/18/05	1	326,000	4,420	8,380	--	--
Well-S	10/17/05	1	90,200	3,790	4,570	--	--
Well-S	11/15/05	1	64,700	3,430	3,840	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-S	12/12/05		64,904	155	446	--	--
Well-S	04/29/09		41,051	148	351	--	--
Well-S	10/12/10		53,907	188	550	--	--
Well-S	11/15/10		20,680	196	361	--	--
Well-S	12/16/10		54,206	184	551	--	--
Well-S	03/22/11	2	42,500	966	4,290	--	--
Well-S	05/05/11	2	27,100	851	2,750	--	--
Well-S	07/13/11	2	41,600	1,090	4,210	--	--
Well-S	09/10/11	2	37,200	950	3,750	--	--
Well-T	07/10/03		< 147	147	88	--	--
Well-T	07/15/03		< 140	140	82	--	--
Well-T	07/30/03		< 141	141	86	--	--
Well-T	08/12/03		< 140	140	83	0.64	931
Well-T	08/28/03		< 141	141	83	0.66	896
Well-T	09/09/03		< 147	147	88	0.63	899
Well-T	09/25/03		< 142	142	84	0.63	912
Well-T	10/06/03		< 146	146	86	0.65	966
Well-T	12/12/03		< 149	149	88	--	--
Well-T	03/22/04		< 142	142	84	0.649	986
Well-T	04/12/04		< 141	141	84	0.762	920
Well-T	07/07/04		148	148	87	--	--
Well-T	08/02/04		< 151.76	152	91	0.622	894
Well-T	08/31/04		< 147.47	147	87	--	--
Well-T	09/22/04		< 146.27	146	87	--	--
Well-T	10/11/04		< 154.98	155	91	--	--
Well-T	11/09/04		< 148.00	148	87	--	--
Well-T	12/21/04	1	< 3910.00	3,910	1,340	--	--
Well-T	01/10/05		< 165.00	165	96	--	--
Well-T	02/01/05		137	135	83	0.638	945
Well-T	03/03/05		< 152.00	152	90	--	--
Well-T	04/05/05		< 148.00	148	90	--	--
Well-T	05/09/05		< 144.00	144	86	--	--
Well-T	07/05/05		< 145.00	145	86	--	--
Well-T	10/03/05		< 149.22	149	90	--	--
Well-T	01/09/06		< 154.33	154	90	--	--
Well-T	04/03/06		< 162.42	162	96	--	--
Well-T	07/10/06		< 160.78	161	95	--	--
Well-T	10/05/06		< 160.84	161	95	--	--
Well-T	10/06/06	1	< 6270.00	6,270	--	--	--
Well-T	01/23/07		193	152	94	--	--
Well-T	04/11/07		< 167.85	168	101	--	--
Well-T	07/12/07		< 146.69	147	86	--	--
Well-T	10/09/07		< 152.37	152	91	--	--
Well-T	01/16/08		< 141.36	141	85	--	--
Well-T	04/22/08		< 144.71	145	85	--	--
Well-T	07/16/08		< 129.58	130	77	--	--
Well-T	10/21/08		< 145.56	146	86	--	--
Well-T	01/19/09		266	149	93	--	--
Well-T	04/01/09	1	< 3830.00	3,830	--	--	--
Well-T	06/10/09		< 132.64	133	80	--	--
Well-T	07/16/09		< 143.33	143	87	--	--
Well-T	10/20/09		< 139.29	139	83	--	--
Well-T	01/25/10		< 193.15	193	115	--	--
Well-T	04/11/10		< 190.73	191	112	--	--
Well-T	07/09/10		< 202.46	202	120	--	--
Well-T	10/20/10		< 187.79	188	112	--	--
Well-T	01/13/11		< 206.66	207	126	--	--
Well-T	06/07/11	2	< 177	177	106	--	--
Well-T	09/10/11	2	< 183	183	116	--	--
Well-T	10/11/11	2	< 197	197	121	--	--
Well-T	11/08/11	2	< 177	177	108	--	--
Well-U	07/10/03		< 136	136	83	--	--
Well-U	07/16/03		146	--	86	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-U	07/29/03		< 141	141	96	--	--
Well-U	08/12/03		< 139	139	84	0.34	139
Well-U	08/27/03		< 143	143	87	0.35	144
Well-U	09/09/03		148	147	90	0.38	139
Well-U	09/25/03		< 139	139	83	0.34	155
Well-U	10/06/03		203	145	90	0.35	140
Well-U	12/12/03		< 148	148	86	--	--
Well-U	03/22/04		< 144	144	88	0.38	168
Well-U	04/12/04		182	136	84	0.392	146
Well-U	07/07/04		162	150	92	--	--
Well-U	08/02/04		< 151.59	152	91	0.346	143
Well-U	08/31/04		< 147.95	148	90	--	--
Well-U	09/22/04		167	152	93	--	--
Well-U	10/04/04		< 146.17	146	87	--	--
Well-U	11/03/04		165	148	91	--	--
Well-U	12/06/04	1	< 4520.00	4,520	1,160	--	--
Well-U	01/10/05		< 157.00	157	93	--	--
Well-U	02/08/05		< 149.00	149	91	0.377	156
Well-U	03/03/05		< 147.00	147	88	--	--
Well-U	04/05/05		< 142.00	142	86	--	--
Well-U	05/09/05		< 148.00	148	90	--	--
Well-U	07/05/05		< 143.00	143	87	--	--
Well-U	10/03/05		284	150	94	--	--
Well-U	01/09/06		< 156.63	157	94	--	--
Well-U	04/03/06		< 153.89	154	93	--	--
Well-U	04/06/06	1	< 5000.00	5,000	--	--	--
Well-U	07/10/06		< 157.46	157	95	--	--
Well-U	10/05/06		< 159.93	160	98	--	--
Well-U	10/06/06	1	< 6270.00	6,270	--	--	--
Well-U	01/22/07		163	152	93	--	--
Well-U	04/11/07		< 166.52	167	102	--	--
Well-U	07/12/07		< 150.41	150	91	--	--
Well-U	10/09/07		< 153.24	153	92	--	--
Well-U	01/16/08		< 138.31	138	84	--	--
Well-U	05/28/08		< 147.84	148	90	--	--
Well-U	07/16/08		189	128	79	--	--
Well-U	10/20/08		< 144.82	145	88	--	--
Well-U	01/19/09		< 154.08	154	92	--	--
Well-U	04/01/09	1	< 3830.00	3,830	--	--	--
Well-U	06/29/09		282	137	86	--	--
Well-U	07/16/09		183	143	88	--	--
Well-U	10/20/09		172	140	86	--	--
Well-U	01/25/10		420	195	125	--	--
Well-U	04/07/10		372	185	119	--	--
Well-U	04/08/10		< 444.54	445	269	--	--
Well-U	04/09/10		< 456.71	457	274	--	--
Well-U	04/13/10		231	181	113	--	--
Well-U	04/16/10		288	190	120	--	--
Well-U	04/19/10		< 201.67	202	124	--	--
Well-U	04/22/10		< 203.25	203	123	--	--
Well-U	04/28/10		232	186	116	--	--
Well-U	05/19/10		< 216.64	217	132	--	--
Well-U	06/02/10		288	189	119	--	--
Well-U	06/17/10		189	135	84	--	--
Well-U	06/22/10		241	135	84	--	--
Well-U	06/28/10		276	196	123	--	--
Well-U	07/07/10		228	199	124	--	--
Well-U	07/20/10		387	185	119	--	--
Well-U	07/28/10		320	185	117	--	--
Well-U	08/26/10		364	200	127	--	--
Well-U	09/24/10		242	198	123	--	--
Well-U	10/20/10		< 187.8	188	116	--	--
Well-U	01/13/11		290	206	129	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-U	06/07/11	2	223	178	121	--	--
Well-U	09/10/11	2	307	181	127	--	--
Well-U	10/11/11	2	309	201	140	--	--
Well-U	11/08/11	2	479	173	130	--	--
Well-U	12/28/11	2	361	179	131	--	--
Well-V	07/21/03		334	140	89	--	--
Well-V	07/29/03		285	142	89	--	--
Well-V	08/12/03		278	142	89	0.5	568
Well-V	08/27/03		338	141	90	0.61	584
Well-V	09/09/03		337	150	95	0.57	582
Well-V	09/25/03		261	140	87	0.47	670
Well-V	10/06/03		185	144	89	0.46	543
Well-V	11/19/03	1	< 3300	3,300	--	--	--
Well-V	12/12/03		207	147	91	--	--
Well-V	03/22/04		290	144	90	0.46	556
Well-V	04/12/04		316	137	87	0.529	567
Well-V	07/07/04		228	145	90	--	--
Well-V	08/02/04		309	154	97	0.433	504
Well-V	08/31/04		395	151	96	--	--
Well-V	09/22/04		402	141	91	--	--
Well-V	10/04/04		340	146	92	--	--
Well-V	11/03/04		224	143	89	--	--
Well-V	12/06/04	1	< 4170.00	4,170	1,360	--	--
Well-V	01/10/05		394	151	96	--	--
Well-V	02/08/05		307	152	95	--	--
Well-V	03/03/05		157	156	95	0.436	431
Well-V	04/05/05		294	141	89	--	--
Well-V	05/09/05		244	155	96	--	--
Well-V	07/05/05		197	144	89	--	--
Well-V	10/03/05		346	147	93	--	--
Well-V	01/09/06		264	157	98	--	--
Well-V	04/03/06		< 152.48	152	93	--	--
Well-V	07/10/06		181	157	96	--	--
Well-V	10/05/06		< 158.69	159	95	--	--
Well-V	01/22/07		199	157	97	--	--
Well-V	04/11/07		154	149	92	--	--
Well-V	07/12/07		163	153	94	--	--
Well-V	10/09/07		170	153	94	--	--
Well-V	01/16/08		176	139	86	--	--
Well-V	05/28/08		186	147	90	--	--
Well-V	07/16/08		164	130	80	--	--
Well-V	10/20/08		195	145	89	--	--
Well-V	01/19/09		244	150	93	--	--
Well-V	04/01/09		586	134	89	--	--
Well-V	07/16/09		198	145	89	--	--
Well-V	10/20/09		173	140	86	--	--
Well-V	01/25/10		287	195	122	--	--
Well-V	04/11/10		< 187.08	187	115	--	--
Well-V	07/09/10		< 201.06	201	123	--	--
Well-V	10/20/10		< 204.85	205	126	--	--
Well-V	01/13/11		286	186	117	--	--
Well-V	06/07/11	2	< 175	175	111	--	--
Well-V	09/10/11	2	291	187	129	--	--
Well-V	12/28/11	2	201	180	123	--	--
Well-W	07/07/03		10,500	135	189	--	--
Well-W	07/21/03		11,100	140	196	--	--
Well-W	08/06/03		11,500	141	200	0.46	211
Well-W	08/07/03	1	6,010	--	--	--	--
Well-W	08/19/03		10,700	142	194	0.59	215
Well-W	09/03/03		10,500	143	192	0.53	222
Well-W	09/15/03		10,900	140	195	0.57	237
Well-W	10/03/03		11,100	147	202	0.46	240
Well-W	10/21/03		10,600	147	195	--	--



Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-W	11/17/03	1	12,200	--	--	--	--
Well-W	11/19/03	1	13,200	--	--	--	--
Well-W	12/16/03		15,200	147	226	--	--
Well-W	01/14/04		17,100	144	232	--	--
Well-W	02/02/04		19,600	144	251	--	--
Well-W	03/03/04		5,320	146	151	0.28	273
Well-W	04/29/04		4,570	140	140	0.14	212
Well-W	05/10/04		2,350	141	117	--	--
Well-W	05/24/04		4,080	146	139	--	--
Well-W	06/24/04		5,300	141	149	--	--
Well-W	07/28/04		11,691	154	208	--	--
Well-W	08/02/04		11,910	148	204	--	--
Well-W	08/31/04		11,091	160	211	--	--
Well-W	09/22/04		9,571	138	186	--	--
Well-W	10/11/04		9,947	147	194	--	--
Well-W	11/08/04		8,920	150	186	0.487	309
Well-W	12/14/04	1	5,560	3,230	1,390	--	--
Well-W	01/10/05		6,292	150	165	0.681	273
Well-W	02/01/05		7,340	159	178	--	--
Well-W	03/02/05		5,756	150	158	3.33	26.7
Well-W	04/05/05		8,826	155	192	--	--
Well-W	05/02/05		12,339	147	209	--	--
Well-W	06/06/05		11,480	154	207	--	--
Well-W	07/06/05		16,672	149	239	--	--
Well-W	08/01/05		14,920	149	227	--	--
Well-W	09/06/05		17,419	154	247	--	--
Well-W	10/03/05		12,455	149	211	--	--
Well-W	11/14/05	1	23,400	3,430	2,460	--	--
Well-W	12/20/05	1	31,200	3,430	2,830	--	--
Well-W	01/17/06	1	46,200	3,550	3,380	--	--
Well-W	02/07/06	1	49,800	3,090	3,470	--	--
Well-W	02/21/06	1	52,600	3,920	3,620	--	--
Well-W	03/07/06	1	56,200	3,310	3,750	--	--
Well-W	03/20/06	1	56,900	3,730	3,850	--	--
Well-W	04/03/06	1	50,300	5,000	3,880	--	--
Well-W	04/17/06	1	58,400	5,510	4,240	--	--
Well-W	05/02/06	1	46,700	5,000	3,800	--	--
Well-W	05/15/06	1	46,700	5,000	3,870	--	--
Well-W	06/06/06		44,179	155	374	--	--
Well-W	06/19/06	1	38,600	4,890	3,500	--	--
Well-W	07/10/06		3,755	161	144	--	--
Well-W	07/24/06		1,234	152	109	--	--
Well-W	08/07/06		3,471	158	139	--	--
Well-W	08/21/06		5,284	162	162	--	--
Well-W	09/07/06		12,991	158	220	--	--
Well-W	09/18/06		15,311	166	242	--	--
Well-W	10/09/06		18,859	166	266	--	--
Well-W	10/24/06		9,929	155	194	--	--
Well-W	11/01/06		12,968	170	231	--	--
Well-W	11/15/06		14,464	171	245	--	--
Well-W	12/07/06		10,046	184	220	--	--
Well-W	12/19/06		15,062	139	221	--	--
Well-W	01/13/07		18,705	152	259	--	--
Well-W	02/05/07		24,113	147	278	--	--
Well-W	03/08/07		5,838	165	169	--	--
Well-W	04/20/07		1,616	159	120	--	--
Well-W	06/18/07		1,530	142	107	--	--
Well-W	07/18/07		2,462	147	121	--	--
Well-W	08/15/07		3,000	147	127	--	--
Well-W	09/20/07		6,562	149	164	--	--
Well-W	10/03/07		12,492	165	229	--	--
Well-W	11/14/07		13,071	123	202	--	--
Well-W	12/12/07		13,940	147	216	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-W	01/17/08		10,203	140	186	--	--
Well-W	02/06/08		6,988	141	162	--	--
Well-W	03/18/08		2,507	137	116	--	--
Well-W	04/02/08		4,169	157	145	--	--
Well-W	05/08/08		4,545	146	142	--	--
Well-W	06/19/08		5,909	135	149	--	--
Well-W	07/07/08		6,880	127	153	--	--
Well-W	08/06/08		1,966	132	106	--	--
Well-W	09/02/08		2,535	134	114	--	--
Well-W	11/18/08		2,919	133	118	--	--
Well-W	12/15/08		2,996	139	123	--	--
Well-W	01/08/09		4,153	139	135	--	--
Well-W	02/11/09		4,498	148	143	--	--
Well-W	03/10/09		4,766	144	142	--	--
Well-W	04/08/09		4,343	142	139	--	--
Well-W	05/11/09		2,328	136	113	--	--
Well-W	06/08/09		2,377	126	107	--	--
Well-W	07/21/09		4,728	133	137	--	--
Well-W	08/18/09		844	145	99	--	--
Well-W	09/02/09		912	147	101	--	--
Well-W	10/08/09		4,518	140	138	--	--
Well-W	11/17/09		6,351	149	160	--	--
Well-W	12/29/09		5,128	147	148	--	--
Well-W	01/12/10		4,594	192	195	--	--
Well-W	03/10/10		5,276	201	207	--	--
Well-W	04/08/10		4,923	431	437	--	--
Well-W	04/09/10		5,221	456	457	--	--
Well-W	05/14/10		4,763	180	192	--	--
Well-W	06/18/10		5,105	185	198	--	--
Well-W	07/09/10		5,650	184	205	--	--
Well-W	08/25/10		4,804	199	201	--	--
Well-W	09/13/10		5,329	199	209	--	--
Well-W	10/18/10		4,641	204	202	--	--
Well-W	11/10/10		3,649	179	176	--	--
Well-W	12/02/10		3,750	191	184	--	--
Well-W	01/14/11		3,643	188	180	--	--
Well-W	03/25/11	2	4,580	377	516	--	--
Well-W	04/19/11	2	4,120	349	466	--	--
Well-W	05/10/11	2	3,210	313	378	--	--
Well-W	06/10/11	2	4,780	338	523	--	--
Well-W	07/20/11	2	4,650	346	514	--	--
Well-W	09/01/11	2	5,970	386	644	--	--
Well-W	10/20/11	2	2,630	285	321	--	--
Well-W	11/17/11	2	3,040	275	352	--	--
Well-W	12/08/11	2	3,560	296	403	--	--
Well-X	08/20/03	1	< 4820	4,820	--	--	--
Well-X	07/20/05	2	1,500	--	--	--	--
Well-Y	10/27/03		< 142	142	85	--	--
Well-Y	11/09/03		< 143	143	85	--	--
Well-Y	11/19/03	1	< 3750	3,750	--	--	--
Well-Y	11/25/03		< 141	141	85	0.82	1070
Well-Y	12/12/03		< 148	148	87	--	--
Well-Y	12/22/03		< 147	147	87	--	--
Well-Y	01/06/04		< 142	142	85	--	--
Well-Y	02/02/04		< 145	145	84	--	--
Well-Y	03/23/04		145	145	86	--	--
Well-Y	04/07/04		< 136	136	82	0.83	1080
Well-Y	05/10/04		143	143	85	--	--
Well-Y	06/24/04		141	141	86	0.82	1060
Well-Y	07/28/04		< 156.25	156	90	--	--
Well-Y	08/02/04		< 156.62	157	94	--	--
Well-Y	08/31/04		< 145.04	145	87	--	--
Well-Y	09/08/04		< 157.67	158	94	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-Y	10/11/04		< 162.43	162	96	--	--
Well-Y	11/08/04		< 151.00	151	88	--	--
Well-Y	12/13/04	1	< 3230.00	3,230	1,150	--	--
Well-Y	01/10/05		< 162.00	162	94	0.801	1160
Well-Y	02/01/05		< 154.00	154	92	--	--
Well-Y	03/07/05		< 149.00	149	89	--	--
Well-Y	04/06/05		< 144.00	144	84	0.761	1190
Well-Y	05/25/05		< 155.00	155	92	--	1230
Well-Y	06/07/05		< 155.00	155	92	--	--
Well-Y	07/20/05		< 159.00	159	93	--	1270
Well-Y	08/01/05		< 149.00	149	89	--	1290
Well-Y	09/07/05		< 149.14	149	89	--	--
Well-Y	10/04/05		< 150.86	151	91	--	--
Well-Y	11/01/05		< 155.12	155	93	--	--
Well-Y	12/13/05		< 151.16	151	91	--	--
Well-Y	01/17/06		< 156.92	157	94	--	--
Well-Y	02/07/06		< 160.94	161	94	--	--
Well-Y	03/07/06		< 158.43	158	93	--	--
Well-Y	04/04/06		< 172.76	173	101	--	--
Well-Y	05/02/06		< 156.17	156	91	--	--
Well-Y	05/16/06		< 151.98	152	90	--	--
Well-Y	06/06/06		< 159.46	159	93	--	--
Well-Y	06/19/06		< 164.58	165	97	--	--
Well-Y	07/11/06		< 159.73	160	96	--	--
Well-Y	07/24/06		< 155.27	155	92	--	--
Well-Y	08/07/06		< 154.69	155	93	--	--
Well-Y	08/22/06		< 157.12	157	96	--	--
Well-Y	09/07/06		< 157.25	157	94	--	--
Well-Y	09/19/06		< 160.90	161	95	--	--
Well-Y	10/09/06		< 170.82	171	102	--	--
Well-Y	10/24/06		< 170.95	171	100	--	--
Well-Y	11/01/06		< 165.75	166	100	--	--
Well-Y	11/15/06		< 165.73	166	98	--	--
Well-Y	12/07/06		< 193.39	193	109	--	--
Well-Y	12/18/06		< 157.44	157	92	--	--
Well-Y	01/14/07		< 154.92	155	93	--	--
Well-Y	02/20/07		< 164.59	165	97	--	--
Well-Y	03/14/07		< 161.69	162	94	--	--
Well-Y	04/19/07		< 163.38	163	97	--	--
Well-Y	05/16/07		< 179.91	180	101	--	--
Well-Y	06/19/07		< 148.63	149	87	--	--
Well-Y	07/12/07		< 154.56	155	91	--	--
Well-Y	08/16/07		< 146.25	146	87	--	--
Well-Y	09/20/07		< 146.18	146	88	--	--
Well-Y	10/04/07		< 153.74	154	91	--	--
Well-Y	10/04/07	2	< 187	187	114	--	--
Well-Y	11/20/07		< 149.12	149	90	--	--
Well-Y	12/20/07		< 139.61	140	82	--	--
Well-Y	03/13/08		< 137.53	138	82	--	--
Well-Y	04/22/08		< 145.73	146	86	--	--
Well-Y	05/15/08		< 148.31	148	87	--	--
Well-Y	06/24/08		< 146.75	147	87	--	--
Well-Y	07/17/08		< 138.19	138	83	--	--
Well-Y	08/19/08		< 134.02	134	79	--	--
Well-Y	09/03/08		< 133.82	134	79	--	--
Well-Y	10/18/08		< 133.24	133	80	--	--
Well-Y	11/21/08		< 130.71	131	78	--	--
Well-Y	12/23/08		< 131.79	132	78	--	--
Well-Y	01/20/09		< 136.29	136	80	--	--
Well-Y	02/25/09		< 132.39	132	79	--	--
Well-Y	03/30/09		2,259	133	110	--	--
Well-Y	04/27/09		< 145.16	145	87	--	--
Well-Y	05/20/09		< 133.40	133	79	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-Y	05/25/09	1	< 3920.00	3,920	--	--	--
Well-Y	06/10/09		< 132.79	133	79	--	--
Well-Y	07/22/09		< 141.26	141	85	--	--
Well-Y	08/18/09		< 144.92	145	86	--	--
Well-Y	09/24/09		< 148.01	148	87	--	--
Well-Y	10/27/09		< 134.98	135	79	--	--
Well-Y	11/19/09		< 130.98	131	78	--	--
Well-Y	12/30/09		< 145.92	146	85	--	--
Well-Y	01/19/10		< 194.31	194	117	--	--
Well-Y	02/18/10		< 189.33	189	117	--	--
Well-Y	03/18/10		< 196.84	197	114	--	--
Well-Y	04/08/10		< 440.31	440	256	--	--
Well-Y	04/09/10		< 451.32	451	255	--	--
Well-Y	05/21/10		< 198.86	199	121	--	--
Well-Y	06/17/10		< 196.9	197	120	--	--
Well-Y	07/22/10		< 199.46	199	117	--	--
Well-Y	08/26/10		< 198.16	198	119	--	--
Well-Y	09/09/10		< 194.08	194	120	--	--
Well-Y	10/26/10		< 197.87	198	119	--	--
Well-Y	11/29/10		< 191.31	191	111	--	--
Well-Y	12/21/10		< 146.46	146	86	--	--
Well-Y	01/20/11		< 184.05	184	111	--	--
Well-Y	03/29/11	2	326	171	123	--	--
Well-Y	04/27/11	2	< 182	182	109	--	--
Well-Y	05/26/11	2	< 176	176	105	--	--
Well-Y	06/13/11	2	< 189	189	114	--	--
Well-Y	07/29/11	2	< 176	176	107	--	--
Well-Y	08/31/11	2	2,760	278	329	--	--
Well-Y	09/27/11	2	541	183	139	--	--
Well-Y	10/07/11	2	< 181	181	108	--	--
Well-Y	11/03/11	2	< 177	177	102	--	--
Well-Y	12/13/11	2	< 189	189	111	--	--
Well-Z	10/27/03		573	142	94	--	--
Well-Z	11/09/03		< 140	140	92	--	--
Well-Z	11/19/03	1	< 3500	3,500	--	--	--
Well-Z	11/24/03		583	141	93	0.5	519
Well-Z	12/12/03		621	141	94	--	--
Well-Z	12/22/03		659	140	94	--	--
Well-Z	01/06/04		648	142	95	--	--
Well-Z	02/02/04		538	145	95	--	--
Well-Z	03/23/04		412	144	92	--	--
Well-Z	04/07/04		580	137	91	0.5	531
Well-Z	05/10/04		561	142	93	--	--
Well-Z	06/24/04		474	147	95	0.51	510
Well-Z	07/28/04		519	150	97	--	--
Well-Z	07/29/04		519	150	97	--	--
Well-Z	08/02/04		706	159	106	--	--
Well-Z	08/31/04		585	152	100	--	--
Well-Z	09/08/04		444	141	91	--	--
Well-Z	10/11/04		268	144	90	--	--
Well-Z	11/08/04		339	155	98	0.491	548
Well-Z	12/13/04	1	< 3230.00	3,230	1,060	--	--
Well-Z	01/10/05		249	159	99	--	--
Well-Z	02/01/05		228	153	95	--	--
Well-Z	03/07/05		192	153	94	0.535	688
Well-Z	04/06/05		274	165	103	0.506	716
Well-Z	05/25/05		< 149.00	149	91	--	635
Well-Z	06/07/05		182	149	91	--	--
Well-Z	07/20/05		177	158	97	--	702
Well-Z	08/01/05		202	147	91	--	696
Well-Z	08/16/05		< 159.65	160	98	--	--
Well-Z	08/29/05		186	149	91	--	--
Well-Z	09/07/05		201	149	92	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-Z	09/19/05		< 156.07	156	94	--	--
Well-Z	10/04/05		271	148	93	--	--
Well-Z	10/18/05		< 153.31	153	93	--	--
Well-Z	11/01/05		< 157.85	158	94	--	--
Well-Z	12/13/05		< 157.44	157	96	--	--
Well-Z	01/17/06		< 152.96	153	93	--	--
Well-Z	02/07/06		240	149	93	--	--
Well-Z	02/21/06		238	152	94	--	--
Well-Z	03/07/06	1	< 3310.00	3,310	--	--	--
Well-Z	03/20/06	1	< 3730.00	3,730	--	--	--
Well-Z	04/04/06		< 176.66	177	108	--	--
Well-Z	04/17/06		< 160.01	160	96	--	--
Well-Z	05/02/06		< 152.91	153	93	--	--
Well-Z	05/16/06		< 151.47	151	93	--	--
Well-Z	06/06/06		< 162.77	163	99	--	--
Well-Z	06/19/06		< 154.95	155	94	--	--
Well-Z	07/11/06		194	159	98	--	--
Well-Z	07/24/06		211	151	93	--	--
Well-Z	08/07/06		< 157.13	157	96	--	--
Well-Z	08/22/06		217	161	99	--	--
Well-Z	09/07/06		< 160.22	160	97	--	--
Well-Z	09/19/06		< 162.68	163	99	--	--
Well-Z	10/09/06		< 159.63	160	95	--	--
Well-Z	10/24/06		< 160.10	160	97	--	--
Well-Z	11/01/06		< 162.36	162	97	--	--
Well-Z	11/15/06		248	155	96	--	--
Well-Z	12/07/06		< 203.25	203	120	--	--
Well-Z	12/18/06		< 174.95	175	107	--	--
Well-Z	01/14/07		< 155.12	155	94	--	--
Well-Z	02/20/07		< 151.68	152	91	--	--
Well-Z	03/14/07		< 164.21	164	98	--	--
Well-Z	04/19/07		217	160	99	--	--
Well-Z	05/16/07		< 142.58	143	85	--	--
Well-Z	06/19/07		154	148	90	--	--
Well-Z	07/12/07		< 149.75	150	90	--	--
Well-Z	08/16/07		< 146.41	146	88	--	--
Well-Z	09/20/07		156	145	89	--	--
Well-Z	10/04/07		173	153	94	--	--
Well-Z	10/04/07	2	< 200	200	122	--	--
Well-Z	11/20/07		< 147.43	147	90	--	--
Well-Z	12/20/07		< 138.28	138	83	--	--
Well-Z	03/13/08		< 136.98	137	84	--	--
Well-Z	04/22/08		< 142.89	143	86	--	--
Well-Z	05/15/08		< 148.28	148	89	--	--
Well-Z	06/24/08		136	136	83	--	--
Well-Z	07/17/08		< 138.02	138	84	--	--
Well-Z	08/19/08		173	134	83	--	--
Well-Z	09/03/08		195	134	83	--	--
Well-Z	10/18/08		278	132	83	--	--
Well-Z	11/21/08		289	132	83	--	--
Well-Z	12/23/08		253	133	83	--	--
Well-Z	01/20/09		277	134	84	--	--
Well-Z	02/25/09		244	137	86	--	--
Well-Z	03/30/09		1,043	133	95	--	--
Well-Z	04/27/09		225	142	88	--	--
Well-Z	05/20/09		288	135	85	--	--
Well-Z	06/10/09		250	133	83	--	--
Well-Z	07/22/09		398	144	92	--	--
Well-Z	08/18/09		300	143	90	--	--
Well-Z	09/24/09		315	148	93	--	--
Well-Z	10/27/09		369	142	90	--	--

Table 02. Groundwater Analytical Results (1/22/2003 through 12/31/2011), PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Well Identification	Sample Date	Note	Tritium			Major Cations and Anions	
			Result(pCi/L)	LLD	Deviation	Boron (mg/L)	Sodium (mg/L)
Well-Z	11/19/09		368	149	94	--	--
Well-Z	12/30/09		210	146	90	--	--
Well-Z	01/19/10		434	194	125	--	--
Well-Z	02/18/10		399	186	120	--	--
Well-Z	03/18/10		321	199	125	--	--
Well-Z	04/08/10		< 437.25	437	279	--	--
Well-Z	04/09/10		812	206	141	--	--
Well-Z	05/21/10		671	181	123	--	--
Well-Z	06/17/10		471	196	127	--	--
Well-Z	07/22/10		489	186	122	--	--
Well-Z	08/26/10		478	189	123	--	--
Well-Z	09/09/10		472	181	119	--	--
Well-Z	10/26/10		325	197	125	--	--
Well-Z	11/29/10		252	196	122	--	--
Well-Z	12/21/10		283	147	92	--	--
Well-Z	01/20/11		446	184	120	--	--
Well-Z	04/27/11	2	288	184	127	--	--
Well-Z	05/26/11	2	263	174	121	--	--
Well-Z	06/13/11	2	< 183	183	119	--	--
Well-Z	07/29/11	2	385	171	125	--	--
Well-Z	08/31/11	2	3,820	322	433	--	--
Well-Z	09/27/11	2	503	184	138	--	--
Well-Z	10/07/11	2	457	183	135	--	--
Well-Z	11/03/11	2	513	177	135	--	--
Well-Z	12/13/11	2	400	183	133	--	--
<b>Notes</b> LLD Lower Limit of Detection mg/L Milligrams per Liter pCi/L Picocuries per Liter 1 Reported analytical results are from Salem Chemistry 2 Reported analytical results are from Teledyne-Browne Engineering < Constituent was not detected above the indicated laboratory detection limit 369 Constituent was detected above the laboratory method detection limit 20,000 Constituent was detected above its New Jersey Groundwater Quality Criteria NA Not Available - Deviation and/or LLD were not reported -- Constituent not analyzed							



Table 03. Unit 1 Seismic Gap Drain Tritium Analytical Results, PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Date of Operation	Tritium Results (pCi/L)	Date of Operation	Tritium Results (pCi/L)
October 5, 2004	2,590,000	November 19, 2006	97,200,000
October 13, 2004	74,600,000	November 25, 2006	116,000,000
October 21, 2004	75,600,000	December 2, 2006	122,000,000
October 27, 2004	1,920,000	December 9, 2006	110,000,000
November 3, 2004	66,300,000	December 17, 2006	100,000,000
November 8, 2004	103,000,000	December 23, 2006	115,000,000
November 15, 2004	61,900,000	December 31, 2006	134,000,000
November 23, 2004	46,800,000	January 8, 2007	131,000,000
December 1, 2004	40,400,000	January 14, 2007	105,000,000
December 8, 2004	63,400,000	January 21, 2007	102,000,000
December 14, 2004	44,800,000	January 27, 2007	77,900,000
December 21, 2004	89,900,000	February 3, 2007	71,800,000
January 4, 2005	13,600,000	February 11, 2007	67,700,000
January 11, 2005	40,900,000	February 17, 2007	67,400,000
January 19, 2005	17,700,000	February 24, 2007	66,400,000
January 24, 2005	57,900,000	March 3, 2007	76,000,000
February 2, 2005	46,700,000	March 7, 2007	40,800,000
February 9, 2005	53,800,000	March 25, 2007	75,800,000
February 25, 2005	26,800,000	April 15, 2007	69,900,000
February 28, 2005	59,400,000	April 20, 2007	1,770,000
March 9, 2005	31,800,000	May 1, 2007	56,600,000
March 18, 2005	44,200,000	May 6, 2007	79,100,000
April 1, 2005	39,300,000	May 11, 2007	80,900,000
April 13, 2005	34,600,000 <sup>1</sup>	May 13, 2007	77,100,000
April 21, 2005	29,900,000	May 15, 2007	82,300,000
May 11, 2005	25,600,000	May 16, 2007	82,600,000
May 19, 2005	33,400,000	May 18, 2007	82,900,000
May 25, 2005	37,400,000	June 1, 2007	65,700,000
June 9, 2005	35,800,000	June 10, 2007	66,600,000
July 8, 2005	31,800,000	June 17, 2007	63,200,000
July 15, 2005	47,900,000	June 21, 2007	70,200,000
September 4, 2005	32,600,000	June 24, 2007	73,900,000
September 28, 2005	50,300,000	June 28, 2007	81,400,000
November 27, 2005	29,700,000	July 6, 2007	39,000,000
December 26, 2005	27,800,000	July 8, 2007	1,970,000
February 19, 2006	28,000,000 <sup>1</sup>	July 11, 2007	66,200,000
March 13, 2006	28,000,000 <sup>1</sup>	July 19, 2007	60,400,000
March 20, 2006	28,000,000 <sup>1</sup>	July 24, 2007	57,300,000
March 27, 2006	28,000,000 <sup>1</sup>	July 29, 2007	12,800,000
April 10, 2006	58,400,000	August 5, 2007	61,500,000
April 17, 2006	70,300,000	August 12, 2007	66,600,000
April 23, 2006	70,300,000	August 15, 2007	71,400,000
May 1, 2006	74,600,000	August 21, 2007	76,400,000
May 7, 2006	88,000,000	August 26, 2007	66,300,000
May 14, 2006	85,800,000	September 6, 2007	88,200,000
May 20, 2006	83,800,000	September 9, 2007	87,000,000
May 27, 2006	6,970,000	September 16, 2007	89,000,000
May 29, 2006	ND	September 26, 2007	100,000,000
June 5, 2006	ND	October 7, 2007	94,600,000
June 12, 2006	73,100,000	October 14, 2007	98,200,000
June 18, 2006	58,400,000	October 21, 2007	190,000,000
June 25, 2006	72,400,000	October 24, 2007	107,000,000
June 29, 2006	63,200,000	November 1, 2007	100,000,000
July 2, 2006	30,000,000	November 4, 2007	97,400,000
July 15, 2006	30,000,000	November 11, 2007	102,000,000
July 22, 2006	63,200,000	November 19, 2007	4,800,000
July 29, 2006	36,300,000	November 30, 2007	99,000,000
August 5, 2006	45,800,000	December 9, 2007	124,000,000
August 12, 2006	68,600,000	December 16, 2007	107,000,000
August 20, 2006	68,600,000	December 23, 2007	40,500,000
September 17, 2006	123,000,000	January 6, 2008	107,000,000
September 30, 2006	118,000,000	January 13, 2008	70,900,000
October 7, 2006	128,000,000	January 20, 2008	104,000,000
October 14, 2006	133,000,000	January 27, 2008	ND
October 21, 2006	116,000,000	February 3, 2008	139,000,000
October 28, 2006	84,000,000	February 10, 2008	509,000
November 4, 2006	113,000,000	February 17, 2008	ND
November 11, 2006	100,000,000	February 20, 2008	144,000,000

**Notes:**

<sup>1</sup> concentration estimated based upon results of prior events

ND = Data not available

Volume data after September 2005 estimated due to change in draining procedures.

Table 03. Unit 1 Seismic Gap Drain Tritium Analytical Results, PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Date of Operation	Tritium Results (pCi/L)	Date of Operation	Tritium Results (pCi/L)
February 24, 2008	142,000,000	June 20, 2009	151,000,000
March 2, 2008	149,000,000	June 28, 2009	124,000,000
March 9, 2008	142,000,000	July 5, 2009	167,000,000
March 16, 2008	169,000,000	July 12, 2009	189,000,000
March 23, 2008	178,000,000	July 19, 2009	218,000,000
March 30, 2008	164,000,000	July 25, 2009	91,400,000
April 6, 2008	181,000,000	August 2, 2009	22,600,000
April 13, 2008	170,000,000	August 9, 2009	62,100,000
April 20, 2008	183,000,000	August 16, 2009	50,000,000
April 27, 2008	5,860,000	August 23, 2009	21,500,000
May 4, 2008	169,000,000	August 30, 2009	45,800,000
May 11, 2008	159,000,000	September 5, 2009	73,800,000
May 19, 2008	154,000,000	September 13, 2009	56,400,000
May 25, 2008	82,000,000	September 19, 2009	79,000,000
June 1, 2008	145,000,000	September 27, 2009	87,600,000
June 10, 2008	150,000,000	October 4, 2009	98,900,000
June 15, 2008	110,000,000	October 12, 2009	98,000,000
June 22, 2008	168,000,000	October 18, 2009	78,500,000
June 29, 2008	191,000,000	October 25, 2009	135,000,000
July 6, 2008	231,000,000	November 1, 2009	115,000,000
July 13, 2008	ND	November 8, 2009	147,000,000
July 20, 2008	212,000,000	November 15, 2009	147,000,000
July 27, 2008	212,000,000	November 22, 2009	164,000,000
August 3, 2008	209,000,000	November 29, 2009	156,000,000
August 10, 2008	165,000,000	December 5, 2009	158,000,000
August 16, 2008	221,000,000	December 13, 2009	748,000
August 24, 2008	229,000,000	December 20, 2009	142,000,000
August 31, 2008	246,000,000	December 26, 2009	48,200,000
September 7, 2008	ND	January 3, 2010	81,100,000
September 14, 2008	250,000,000	January 10, 2010	113,000,000
September 21, 2008	246,000,000	January 17, 2010	134,000,000
September 28, 2008	ND	January 24, 2010	93,200,000
October 5, 2008	ND	January 31, 2010	75,300,000
October 12, 2008	ND	February 7, 2010	72,400,000
October 19, 2008	ND	February 14, 2010	28,600,000
October 27, 2008	200,000,000	February 21, 2010	19,800,000
November 2, 2008	238,000,000	February 28, 2010	47,100,000
November 9, 2008	ND	March 7, 2010	118,000,000
November 23, 2008	ND	March 14, 2010	76,600,000
November 30, 2008	ND	March 21, 2010	77,800,000
December 6, 2008	172,000,000	March 28, 2010	63,000,000
December 14, 2008	186,000,000	April 4, 2010	144,000,000
December 21, 2008	181,000,000	April 11, 2010	37,400,000
December 27, 2008	202,000,000	April 18, 2010	72,400,000
January 4, 2009	143,000,000	April 25, 2010	47,400,000
January 11, 2009	166,000,000	May 2, 2010	81,800,000
January 17, 2009	164,000,000	May 9, 2010	82,600,000
January 25, 2009	171,000,000	May 16, 2010	986,000
February 1, 2009	172,000,000	May 23, 2010	119,000,000
February 8, 2009	ND	May 30, 2010	159,000,000
February 10, 2009	163,000,000	June 6, 2010	129,000,000
February 15, 2009	160,000,000	June 13, 2010	179,000,000
February 22, 2009	176,000,000	June 20, 2010	149,000,000
March 1, 2009	184,000,000	June 27, 2010	185,000,000
March 8, 2009	168,000,000	July 4, 2010	147,000,000
March 14, 2009	190,000,000	July 11, 2010	156,000,000
March 22, 2009	189,000,000	July 18, 2010	184,000,000
March 30, 2009	188,000,000	July 25, 2010	143,000,000
April 4, 2009	200,000,000	August 1, 2010	165,000,000
April 12, 2009	190,000,000	August 8, 2010	148,000,000
April 19, 2009	180,000,000	August 15, 2010	165,000,000
April 26, 2009	168,000,000	August 22, 2010	165,000,000
May 2, 2009	5,980,000	August 29, 2010	164,000,000
May 10, 2009	166,000,000	September 5, 2010	ND
May 17, 2009	165,000,000	September 12, 2010	195,000,000
May 24, 2009	143,000,000	September 19, 2010	189,000,000
May 31, 2009	164,000,000	September 26, 2010	161,000,000
June 7, 2009	178,000,000	October 3, 2010	152,000,000
June 14, 2009	167,000,000	October 10, 2010	150,000,000

Notes:

<sup>1</sup> concentration estimated based upon results of prior events

ND = Data not available

Volume data after September 2005 estimated due to change in draining procedures.

Table 03. Unit 1 Seismic Gap Drain Tritium Analytical Results, PSEG Nuclear, LLC, Salem Generating Station, Hancocks Bridge, New Jersey.

Date of Operation	Tritium Results (pCi/L)
October 17, 2010	153,000,000
October 24, 2010	186,000,000
October 31, 2010	222,000,000
November 7, 2010	103,000,000
November 14, 2010	131,000,000
November 21, 2010	206,000,000
November 28, 2010	157,000,000
December 5, 2010	164,000,000
December 12, 2010	53,100,000
December 19, 2010	209,000,000
December 26, 2010	220,000,000
January 2, 2011	ND
January 9, 2011	ND
January 16, 2011	222,000,000
January 23, 2011	196,000,000
January 30, 2011	128,000,000
February 6, 2011	135,000,000
February 13, 2011	127,000,000
February 20, 2011	126,000,000
February 27, 2011	126,000,000
March 6, 2011	ND
March 13, 2011	146,000,000
March 20, 2011	147,000,000
March 27, 2011	133,000,000
April 3, 2011	150,000,000
April 10, 2011	ND
April 17, 2011	140,000,000
April 24, 2011	131,000,000
May 1, 2011	ND
May 8, 2011	ND
May 15, 2011	172,000,000
May 22, 2011	ND
May 29, 2011	ND
June 5, 2011	181,000,000
June 12, 2011	ND
June 19, 2011	ND
June 26, 2011	143,000,000
July 3, 2011	155,000,000
July 10, 2011	ND
July 17, 2011	ND
July 24, 2011	ND
July 31, 2011	ND
August 7, 2011	172,000,000
August 14, 2011	ND
August 21, 2011	ND
August 28, 2011	ND
September 4, 2011	137,000,000
September 11, 2011	125,000,000
September 18, 2011	ND
September 25, 2011	ND
October 2, 2011	157,000,000
October 9, 2011	ND
October 16, 2011	177,000,000
October 23, 2011	ND
October 30, 2011	ND
November 6, 2011	49,000,000
November 13, 2011	ND
November 20, 2011	ND
November 27, 2011	ND
December 4, 2011	83,500,000
December 11, 2011	ND
December 18, 2011	ND
December 25, 2011	ND

Notes:

<sup>1</sup> concentration estimated based upon results of prior events

ND = Data not available

Volume data after September 2005 estimated due to change in draining procedures.

Table 04. 2011 Water Level Elevation Data, PSEG Nuclear, LLC, Salem Generating Station, Hancock Bridge, New Jersey

Well Identification	Well Depth (ft bgs)	Reference Point* Elevation (ft rpd)	Reference Point* Elevation (NGVD 1988)	Depth to Water (ft btoc) 6-Jan-2011	Water-Level Elevation (ft rpd) 6-Jan-2011	Water-Level Elevation (ft msl) 6-Jan-2011	Depth to Water (ft btoc) 18-Mar-2011	Water-Level Elevation (ft rpd) 18-Mar-2011	Water-Level Elevation (ft msl) 18-Mar-2011	Depth to Water (ft btoc) 1-Aug-2011	Water-Level Elevation (ft rpd) 1-Aug-2011	Water-Level Elevation (ft msl) 1-Aug-2011	Depth to Water (ft btoc) 23-Nov-2011	Water-Level Elevation (ft rpd) 23-Nov-2011	Water-Level Elevation (ft msl) 23-Nov-2011
Well K	80.0	102.00	12.08	10.81	91.19	1.27	10.63	91.37	1.45	10.81	91.19	1.27	10.45	91.55	1.63
Well L	80.0	101.46	11.54	NM	NM	NM	NM	NM	NM	11.05	90.41	0.49	9.24	92.22	2.30
Well M	20.0	102.17	12.25	9.51	92.66	2.74	7.32	94.85	4.93	8.75	93.42	3.50	8.00	94.17	4.25
Well N	20.0	101.65	11.73	10.45	91.20	1.28	NM	NM	NM	8.3	93.35	3.43	8.64	93.01	3.09
Well O	20.0	101.33	11.41	10.11	91.22	1.30	NM	NM	NM	8.2	93.13	3.21	7.18	94.15	4.23
Well P	80.0	101.13	11.21	10.05	91.08	1.16	10.52	90.61	0.69	10.02	91.11	1.19	9.22	91.91	1.99
Well Q	80.0	106.59	16.67	15.49	91.10	1.18	NM	NM	NM	15.39	91.20	1.28	15.21	91.38	1.46
Well R	20.0	102.35	12.43	9.41	92.94	3.02	6.73	95.62	5.70	9.19	93.16	3.24	8.53	93.82	3.90
Well S	35.0	102.50	12.58	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Well T	31.2	104.13	14.21	12.37	91.76	1.84	11.65	92.48	2.56	11.82	92.31	2.39	11.72	92.41	2.49
Well U	32.2	101.54	11.62	7.65	93.89	3.97	5.91	95.63	5.71	6.1	95.44	5.52	6.04	95.50	5.58
Well V	80.0	98.74	8.82	7.46	91.28	1.36	7.22	91.52	1.60	7.38	91.36	1.44	NM	NM	NM
Well W	35.0	101.67	11.75	8.33	93.34	3.42	NM	NM	NM	6.94	94.73	4.81	NM	NM	NM
Well Y	37.0	101.81	11.89	10.83	90.98	1.06	10.12	91.69	1.77	10.3	91.51	1.59	9.97	91.84	1.92
Well Z	37.5	101.86	11.94	11.07	90.79	0.87	10.14	91.72	1.80	10.36	91.50	1.58	10.07	91.79	1.87
Well AA	35.0	101.56	11.64	8.49	93.07	3.15	7.63	93.93	4.01	7.85	93.71	3.79	7.05	94.51	4.59
Well AB	35.0	101.83	11.91	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Well AC	20	101.25	11.33	7.32	93.93	4.01	NM	NM	NM	5.82	95.43	5.51	5.22	96.03	6.11
Well AD	35.0	101.35	11.43	30.49	70.86	-19.06	25.72	75.63	-14.29	30.38	70.97	-18.95	NM	NM	NM
Well AE	35	101.54	11.62	10.64	90.90	0.98	8.87	NM	2.75	8.62	92.92	3.00	7.58	93.96	4.04
Well AF	35.0	101.61	11.69	11.48	90.13	0.21	10.94	90.67	0.75	10.42	91.19	1.27	10.2	91.41	1.49
Well AG (Deep)	40.0	99.2	9.28	9.12	90.08	0.16	8.81	90.39	0.47	8.40	90.80	0.88	8.15	91.05	1.13
Well AG (Shallow)	24.0	99.29	9.37	9.40	89.89	-0.03	8.94	90.35	0.43	8.49	90.80	0.88	8.36	90.93	1.01
Well AH (Deep)	40.0	102.7	12.78	12.54	90.16	0.24	12.39	90.31	0.39	11.86	90.84	0.92	10.65	92.05	2.13
Well AH (Shallow)	24.0	102.58	12.66	12.60	89.98	0.06	12.21	90.37	0.45	11.74	90.84	0.92	11.82	90.76	0.84
Well AI	22.0	98.79	8.87	7.16	91.63	1.71	5.45	93.34	3.42	6.15	92.64	2.72	5.41	93.38	3.46
Well AJ	35.3	98.85	8.93	7.43	91.42	1.50	21.52	77.33	-12.59	31.42	67.43	-22.49	NM	NM	NM
Well AL	25.3	99.13	9.21	7.40	91.73	1.81	6.15	92.98	3.06	6.87	92.26	2.34	5.76	93.37	3.45
Well AM	20.9	98.55	8.63	7.51	91.04	1.12	NM	NM	NM	6.05	92.50	2.58	5.37	93.18	3.26
Well AN	25.0	97.61	7.69	8.80	88.81	-1.11	NM	NM	NM	5.77	91.84	1.92	4.13	93.48	3.56
Well AO	21.0	97.81	7.89	5.79	92.02	2.10	7.80	90.01	0.09	NM	NM	NM	4.38	93.43	3.51
Well AP	40.0	98.65	8.73	7.90	90.75	0.83	6.67	91.98	2.06	6.91	91.74	1.82	NM	NM	NM
Well AQ	45.0	99.05	9.13	8.75	90.30	0.38	8.18	90.87	0.95	7.98	91.07	1.15	8.17	90.88	0.96
Well AR	43.0	99.22	9.30	8.71	90.51	0.59	8.02	91.20	1.28	7.83	91.39	1.47	7.45	91.77	1.85
Well AS	41.5	99.5	9.58	9.66	89.84	-0.08	9.26	90.24	0.32	8.36	91.14	1.22	8.35	91.15	1.23
Well AT	44.0	98.23	8.31	9.08	89.15	-0.77	8.25	89.98	0.06	7.12	91.11	1.19	7.19	91.04	1.12
Well CA	38.0	98.85	8.93	7.02	91.83	1.91	NM	NM	NM	6.11	92.74	2.82	6.74	92.11	2.19
Well CB	80.0	98.57	8.65	7.98	90.59	0.67	NM	NM	NM	NM	NM	NM	NM	NM	NM
Well DA	16.0	98.93	9.01	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
Well DB	24.9	101.69	11.77	NM	NM	NM	NM	NM	NM	6.94	94.75	4.83	6.32	95.37	5.45
Well DC	25.4	100.90	10.98	NM	NM	NM	NM	NM	NM	6.45	94.45	4.53	5.82	95.08	5.16
Well DD	21.9	101.23	11.31	NM	NM	NM	NM	NM	NM	6.75	94.48	4.56	NM	NM	NM
Well DE	20.9	101.43	11.51	NM	NM	NM	NM	NM	NM	6.98	94.45	4.53	6.15	95.28	5.36
Well DF	21.3	101.32	11.40	NM	NM	NM	NM	NM	NM	6.89	94.43	4.51	6.98	94.34	4.42
Well DG	13.3	98.98	9.06	NM	NM	NM	NM	NM	NM	NM	NM	NM	3.67	95.31	5.39
Well DH	24.6	101.54	11.62	NM	NM	NM	NM	NM	NM	7.89	93.65	3.73	6.91	94.63	4.71
Well DI	20.5	101.64	11.72	NM	NM	NM	NM	NM	NM	6.98	94.66	4.74	5.93	95.71	5.79
Well DJ	10.7	99.03	9.11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

## Notes:

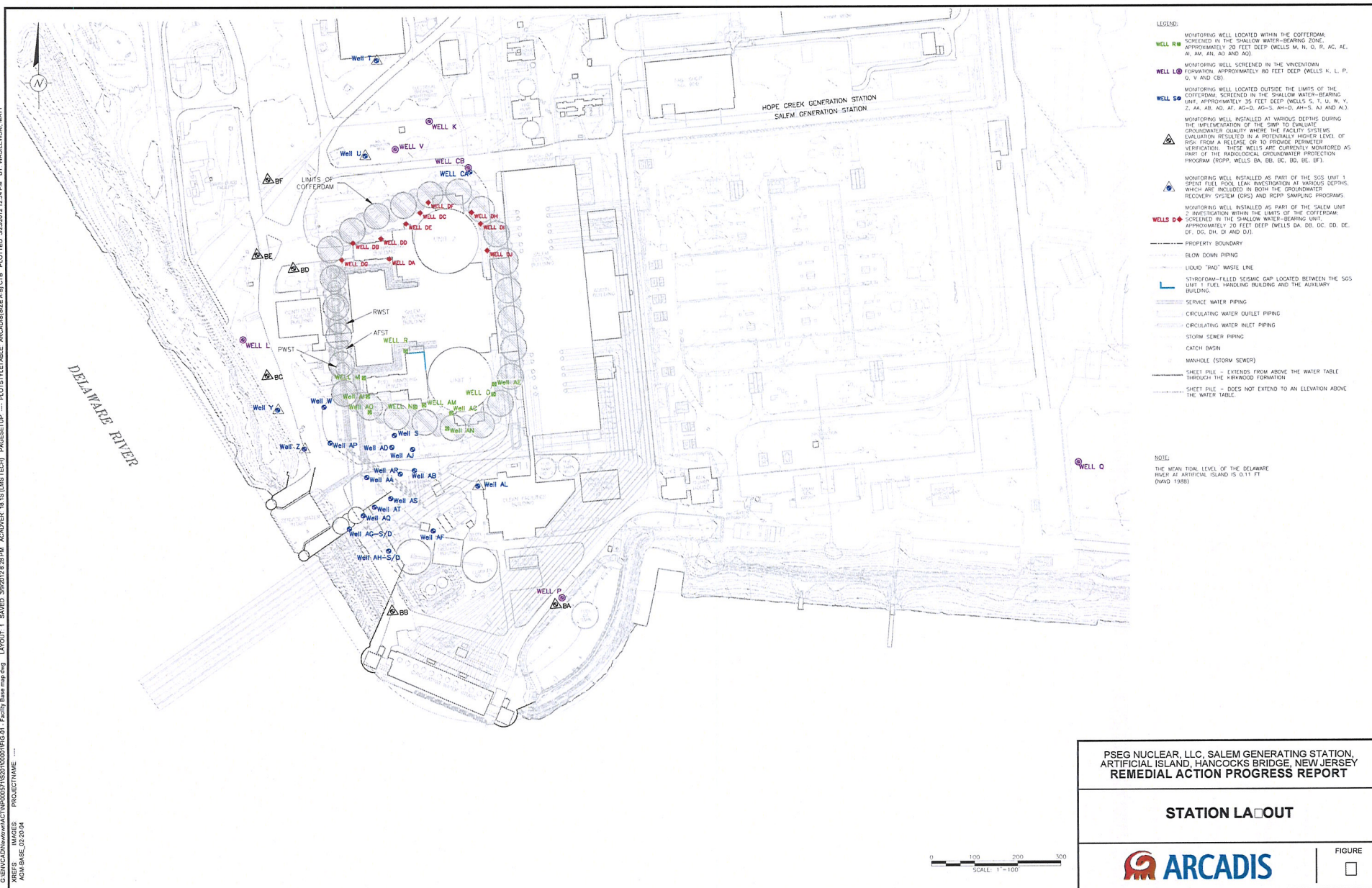
NM - Not measured

bgs - below ground surface

ft rpd - feet, relative to plant datum

ft msl - feet, relative to mean sea level

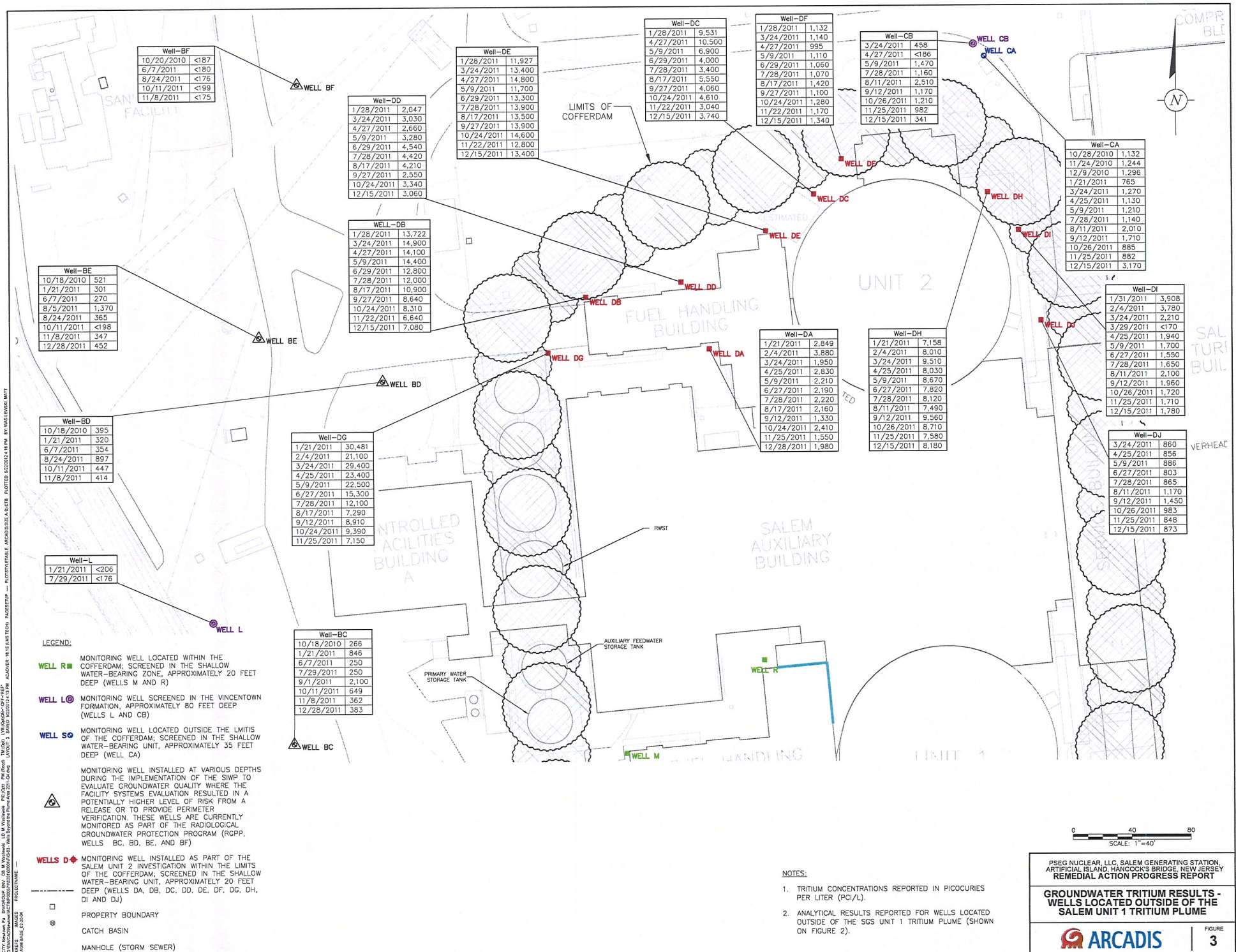
ft btoc - feet below top of outer casing







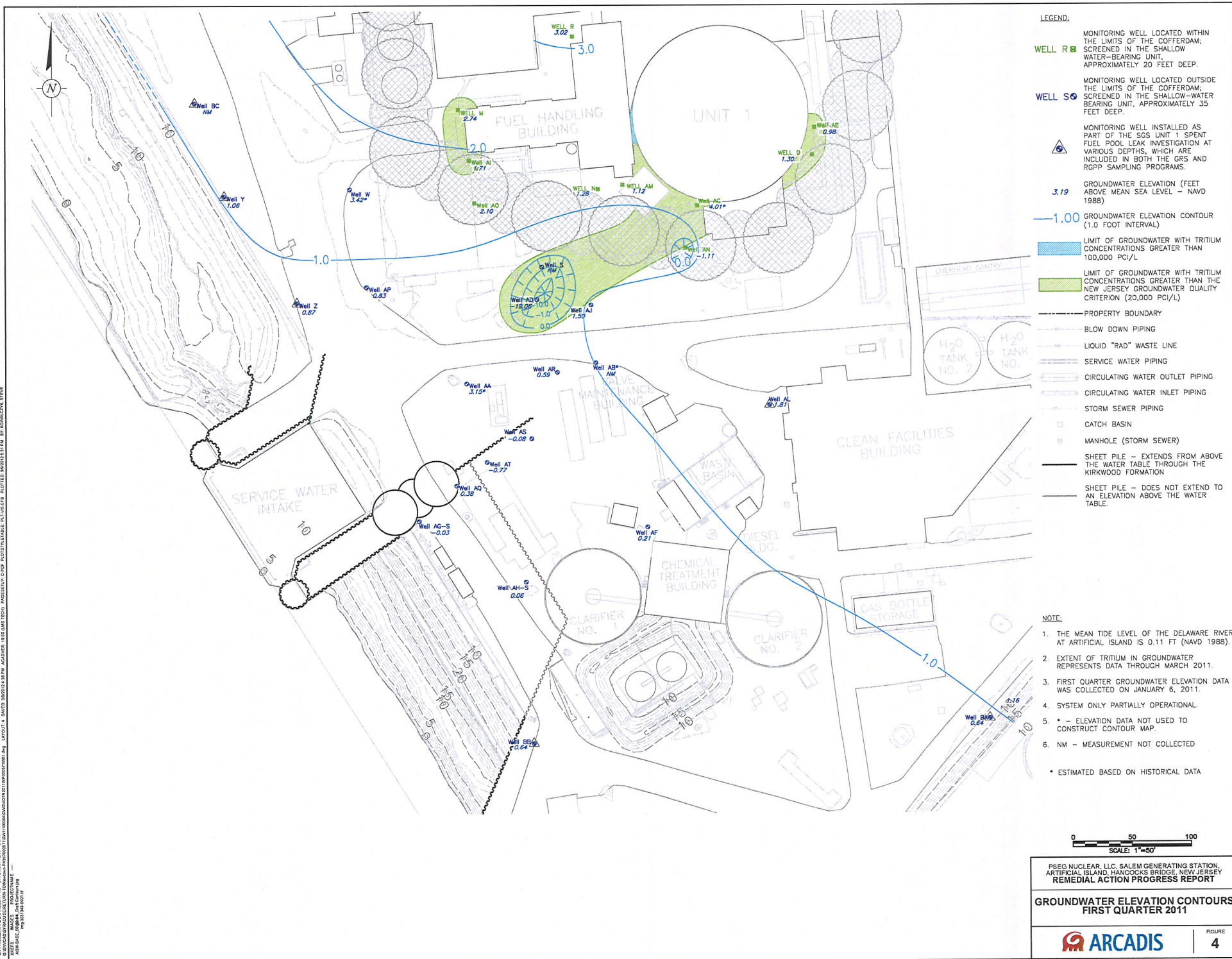




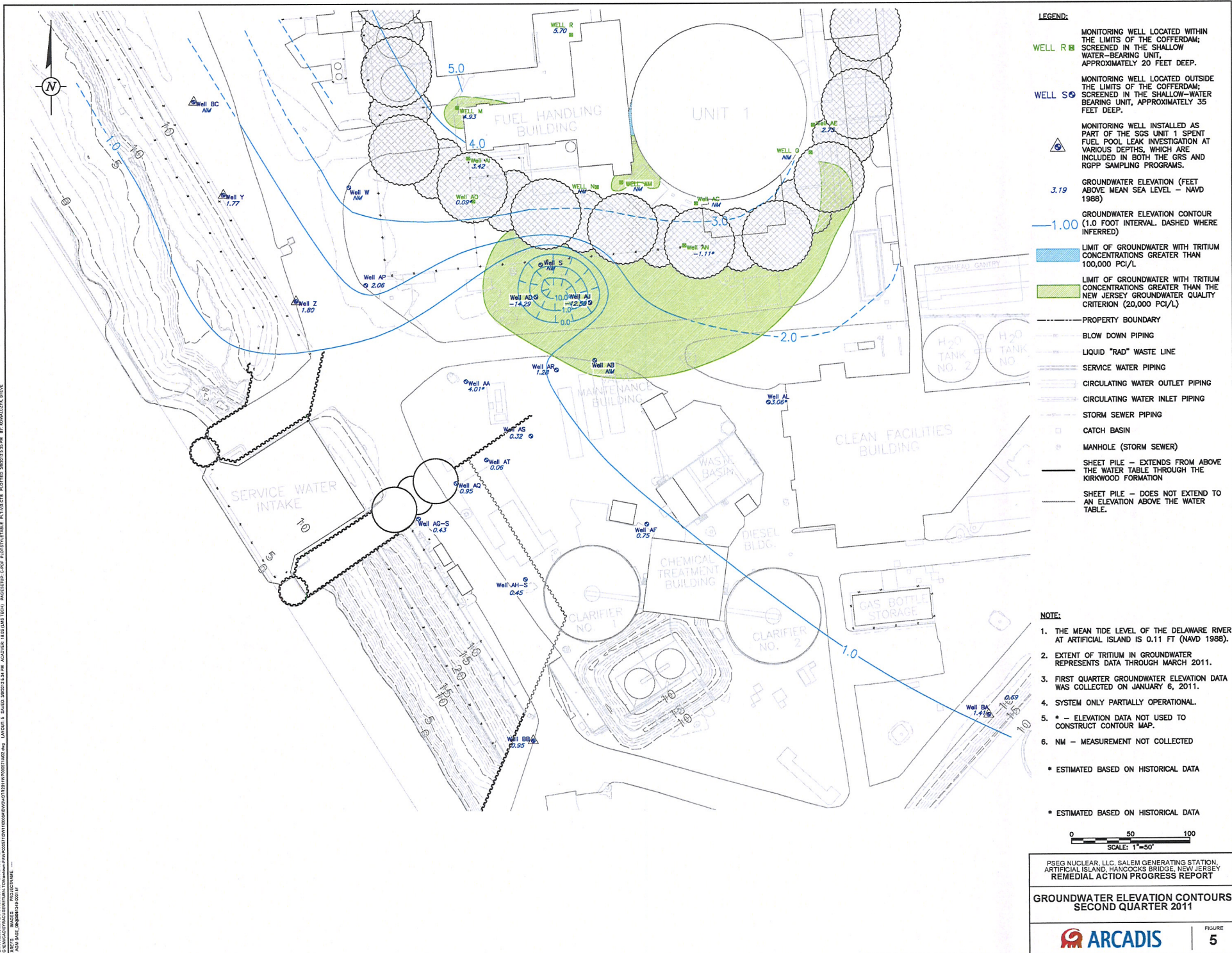
### GROUNDWATER TRITIUM RESULTS - WELLS LOCATED OUTSIDE OF THE SALEM UNIT 1 TRITIUM PLUME



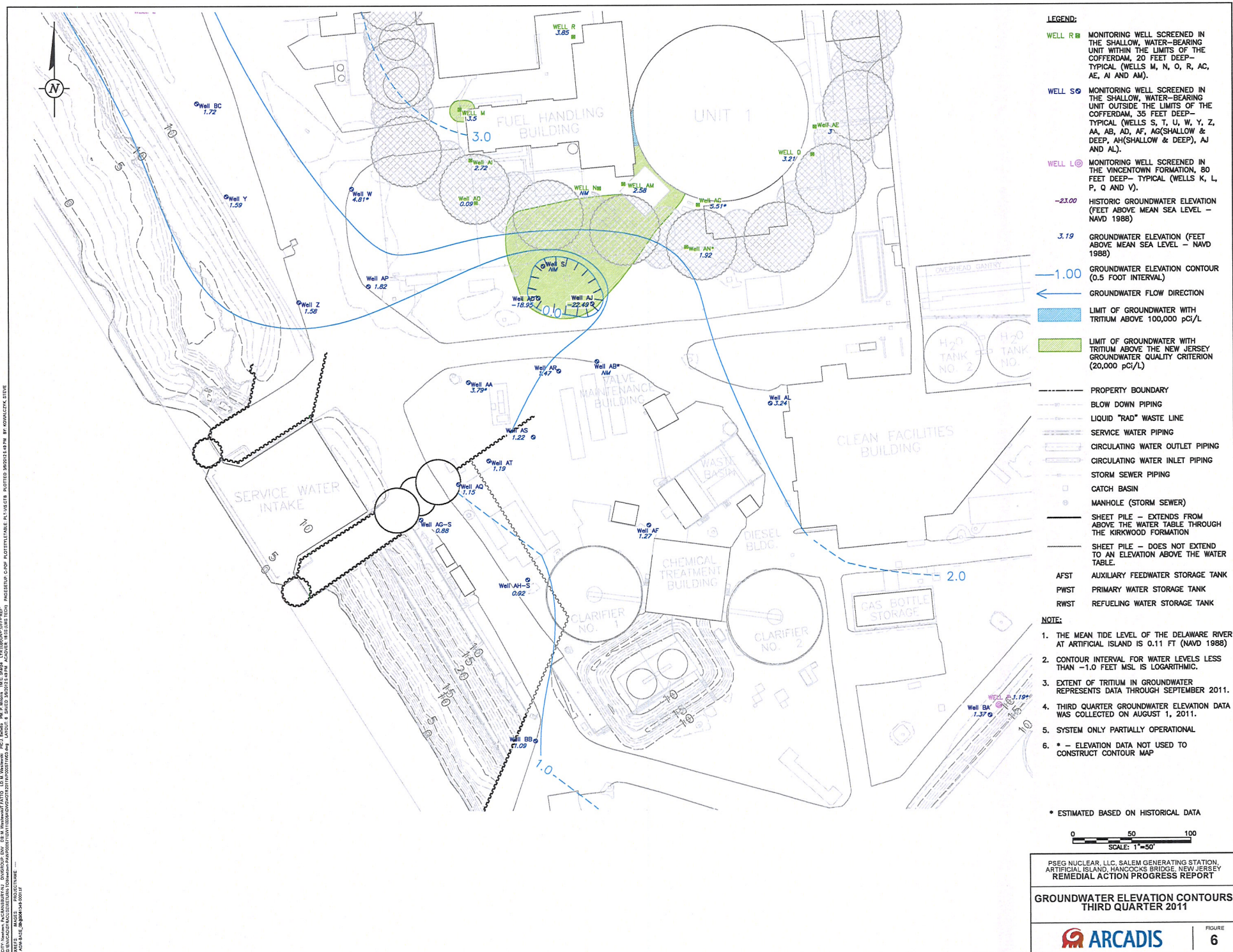












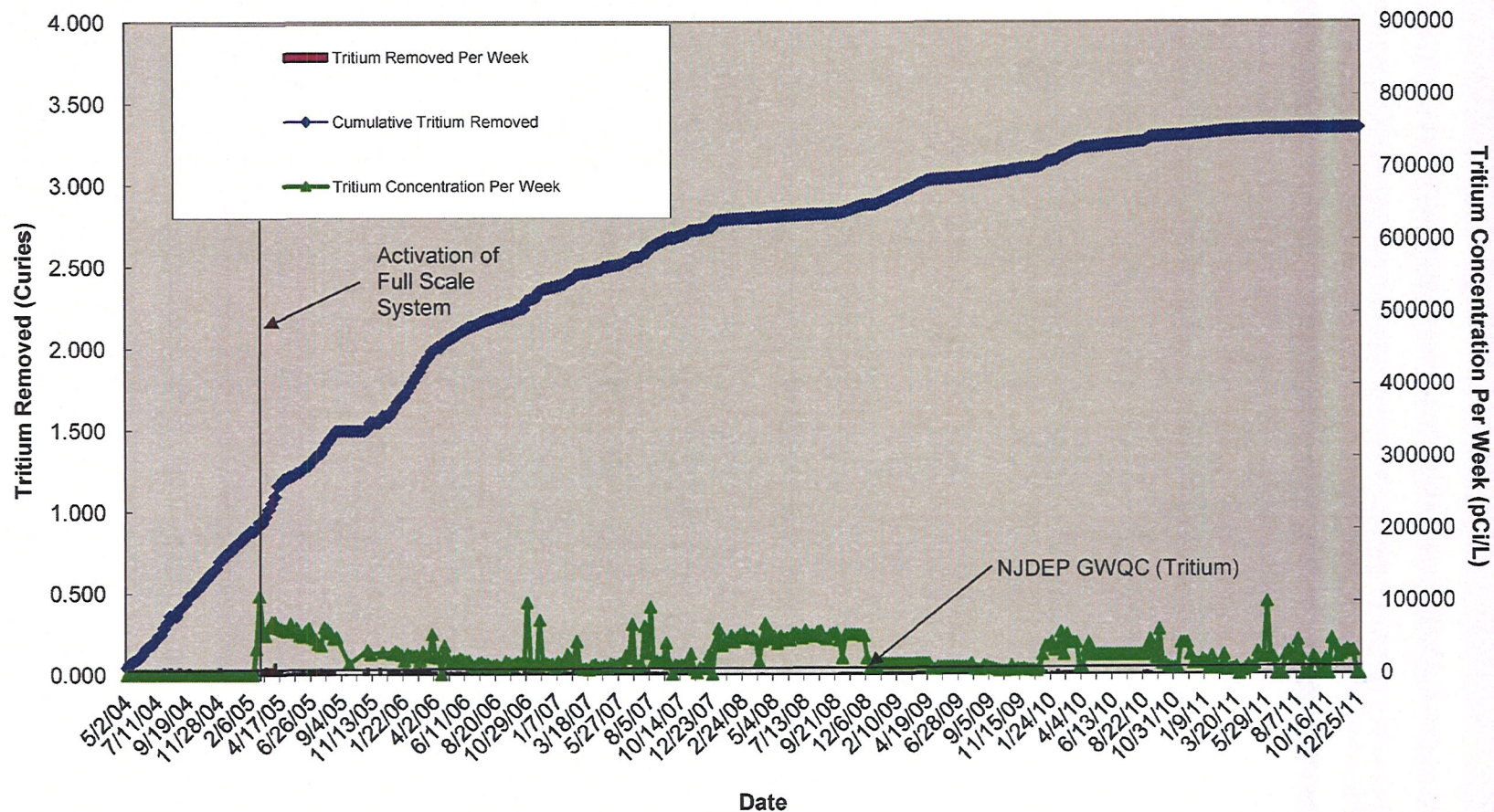






PROJECTNAME: —

## PSEG Nuclear, LLC Salem Generating Station - Unit 1 Tritium Recovered Through Well Field Operation



PSEG NUCLEAR, LLC, SALEM GENERATING STATION,  
ARTIFICIAL ISLAND, HANCOCKS BRIDGE, NEW JERSEY  
**REMEDIAL ACTION PROGRESS REPORT**

**HISTORIC TRITIUM RECOVERED  
THROUGH WELL FIELD OPERATION**



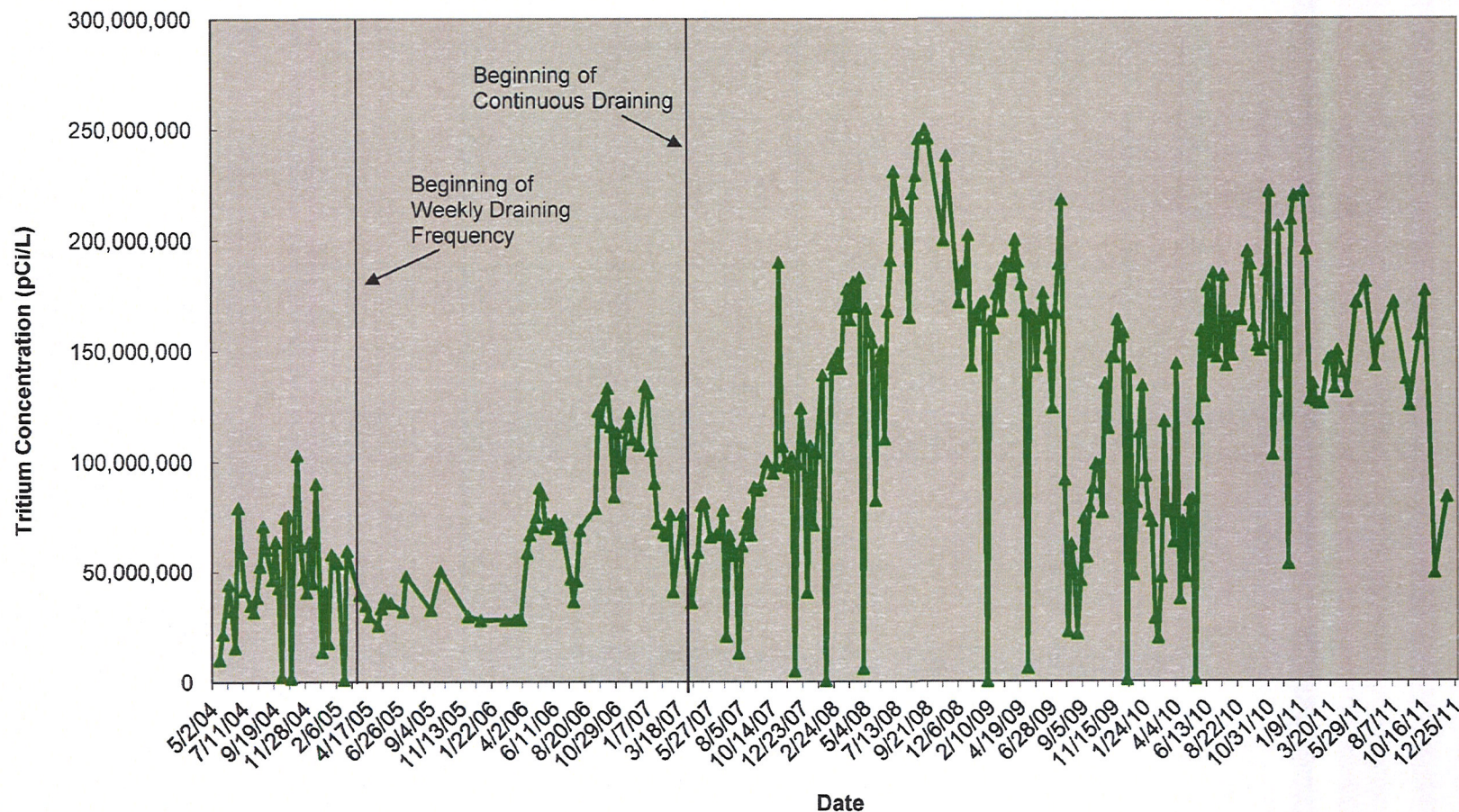
FIGURE





PROJECTNAME: —

## PSEG Nuclear, LLC Salem Generating Station - Unit 1 Concentrations of Tritium in Water Recovered Through Seismic Gap Drain Operation



PSEG NUCLEAR, LLC, SALEM GENERATING STATION,  
ARTIFICIAL ISLAND, HANCOCKS BRIDGE, NEW JERSEY  
**REMEDIATION ACTION PROGRESS REPORT**

**HISTORIC TRITIUM CONCENTRATION  
OBSERVED DURING SEISMIC GAP DRAIN  
OPERATION**



FIGURE

9

**Attachment 1**  
**Tritium Recapture Evaluation, February 2012**

From July through late August 2011, tritium was detected at a increased concentration in Wells AA, AC, AG-D, AG-S, AH-D, AH-S, AL, AP, O, S, Y, and Z. Some of these concentrations exceeded the administrative limits and initiated an investigation. A series of hypotheses were developed and investigated. After review of relevant available data and information, the hypotheses were classified. The following table describes the hypotheses considered.

Hypothesis	Mechanisms
<b><u>Most Probable Sources</u></b>	
Accelerated precipitation recapture due to number and magnitude of rain events	Concentration of tritium accumulating in soil pore space and being liberated through precipitation events
<b>Historical Releases</b>	Hydraulic control of existing plume is degrading due to either GRS system performance issues or increased recharge
Spent fuel pool plume and / or cofferdam was flushed by hurricane recharge or August/September excessive precipitation	Combination of the above
<b><u>Unlikely Sources</u></b>	
Lab issues [considered unlikely due to some non-detect results]	A new, unidentified leak [the wide area of distribution of higher results indicates that a single leak is unlikely] Earthquake induced groundwater movement [deemed not likely by hydrogeologists]
Equipment leakage	Areal extent required multiple simultaneous leaks

Based on the above, the most likely cause of the increased tritium concentrations was the result of the accelerated precipitation recapture due to the number and magnitude of rain events.

During July 8, 2011, over a five hour period (1300-1800 hrs) 1.78 in of rainfall was measured (Figure 1). In August 2011, approximately 14.5 inches of precipitation accumulated at Artificial Island. Normal August mean monthly precipitation (as recorded from 1895 through 2011; [http://climate.rutgers.edu/stateclim\\_v1/data/njhistprecip.html](http://climate.rutgers.edu/stateclim_v1/data/njhistprecip.html)) is 4.5 inches. During a 36-hour period from August 13 to August 14, 2011, approximately 6.9-inches of rain accumulated. Also, Hurricane Irene passed over Artificial Island from August 27 to August 28, 2011 and during a 36-hour period approximately 5.3-inches of rain accumulated.

The nuclear industry has detected tritium in water vapor and rainwater around plants coincident with permitted gaseous releases of tritium. Through a number of evaluations the industry has identified that permitted gaseous releases of tritium can be recaptured from the atmosphere as water vapor and precipitation downwind (EPRI 2009). The potential pathways followed by tritium at the site are presented in Figure 2.

Based on observed tritium exchange between atmospheric water vapor and liquid water (EPRI 2009), it appears that tritium was exchanged from the atmosphere into the liquid water in the vadose zone (Figure 3). During average precipitation accumulation timeframes, this rain water with elevated tritium concentrations would flow slowly down into the groundwater. During the abnormally high precipitation accumulation during August 2011, the rain water with elevated tritium concentrations was flushed from the vadose zone and flowed rapidly through shallow groundwater and was detected in the Riverbed Deposits monitored by the RGPP wells. Subsequent sampling events detected tritium at a historical concentration range indicating tritium concentrations have equilibrated in the subsurface.



Figure 1. Daily Precipitation for August 2011

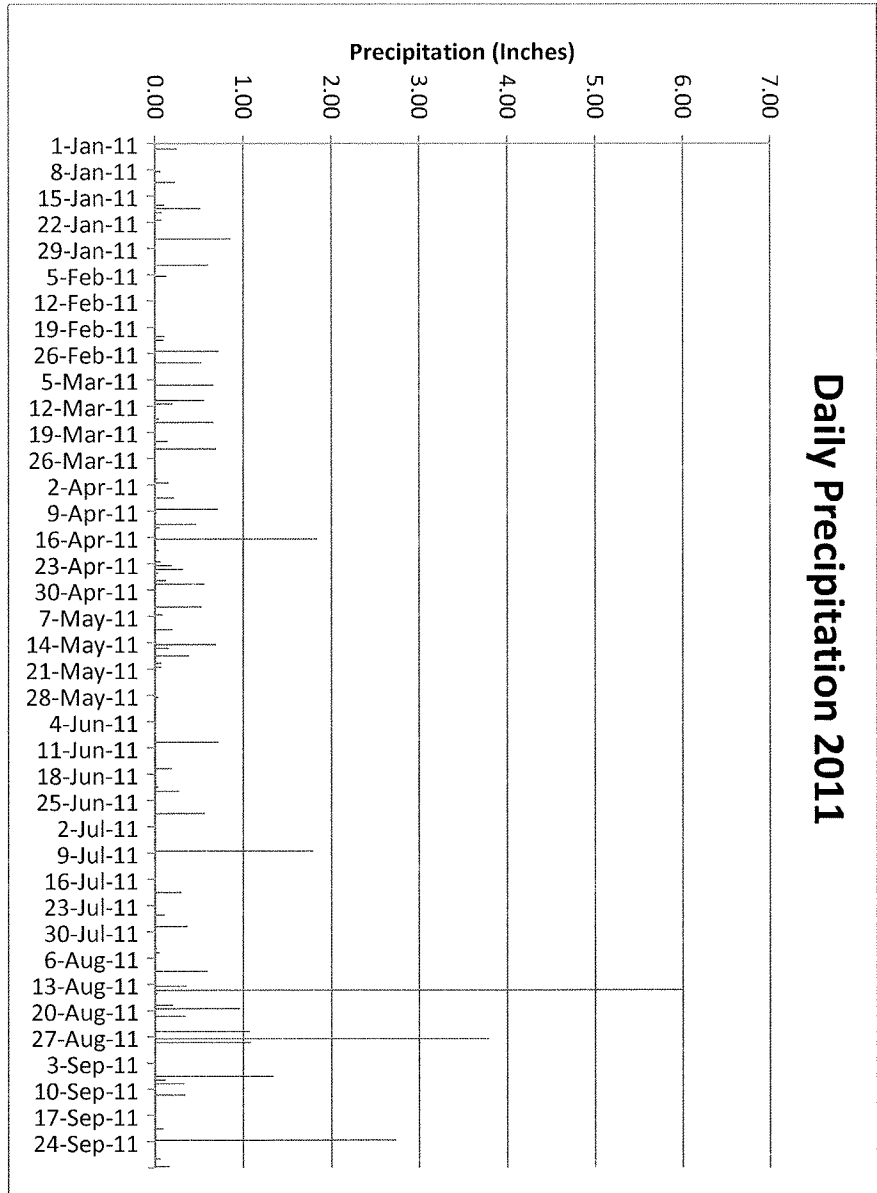


Figure 2. Conceptual Model of Tritium Pathways

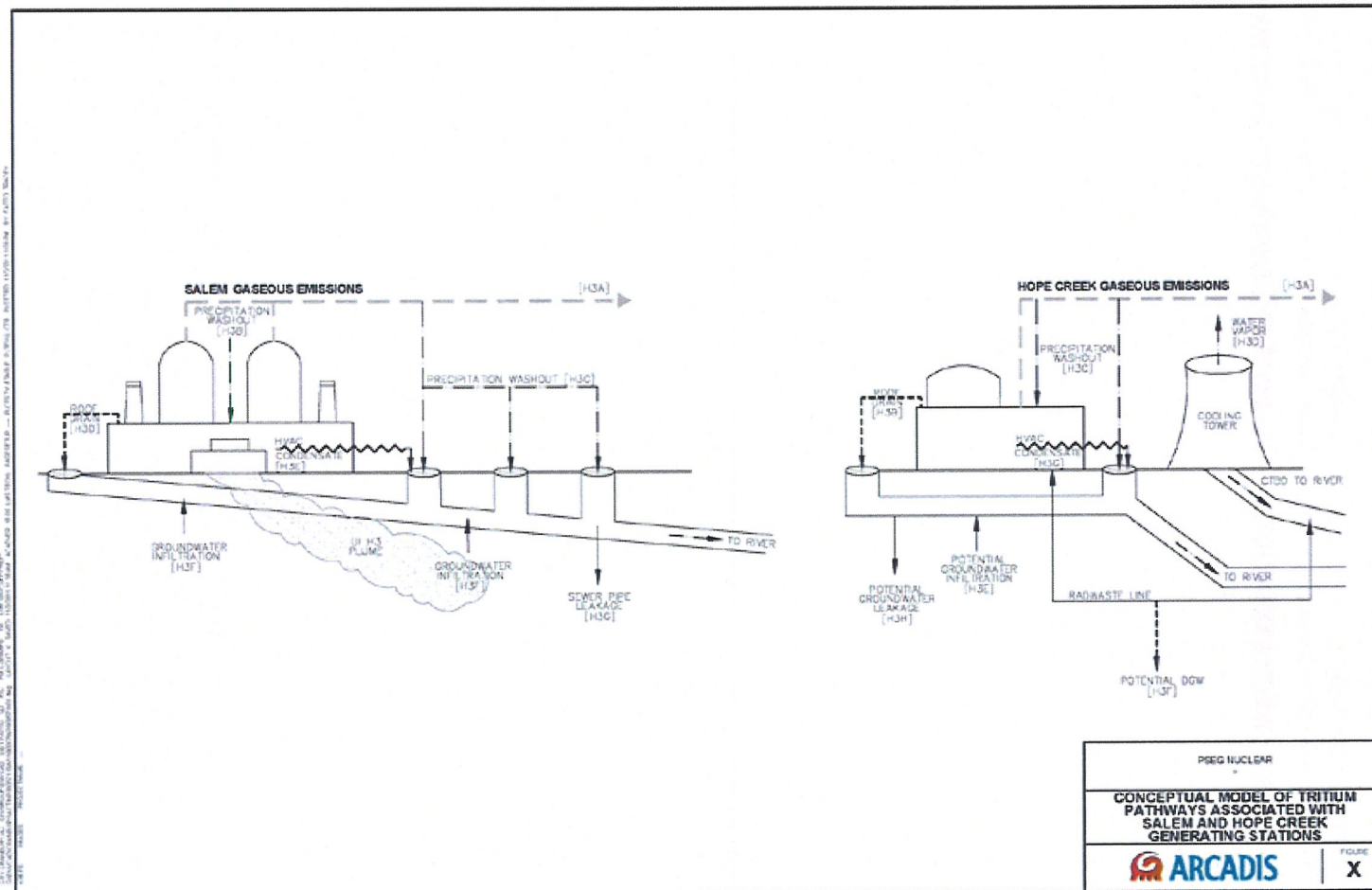
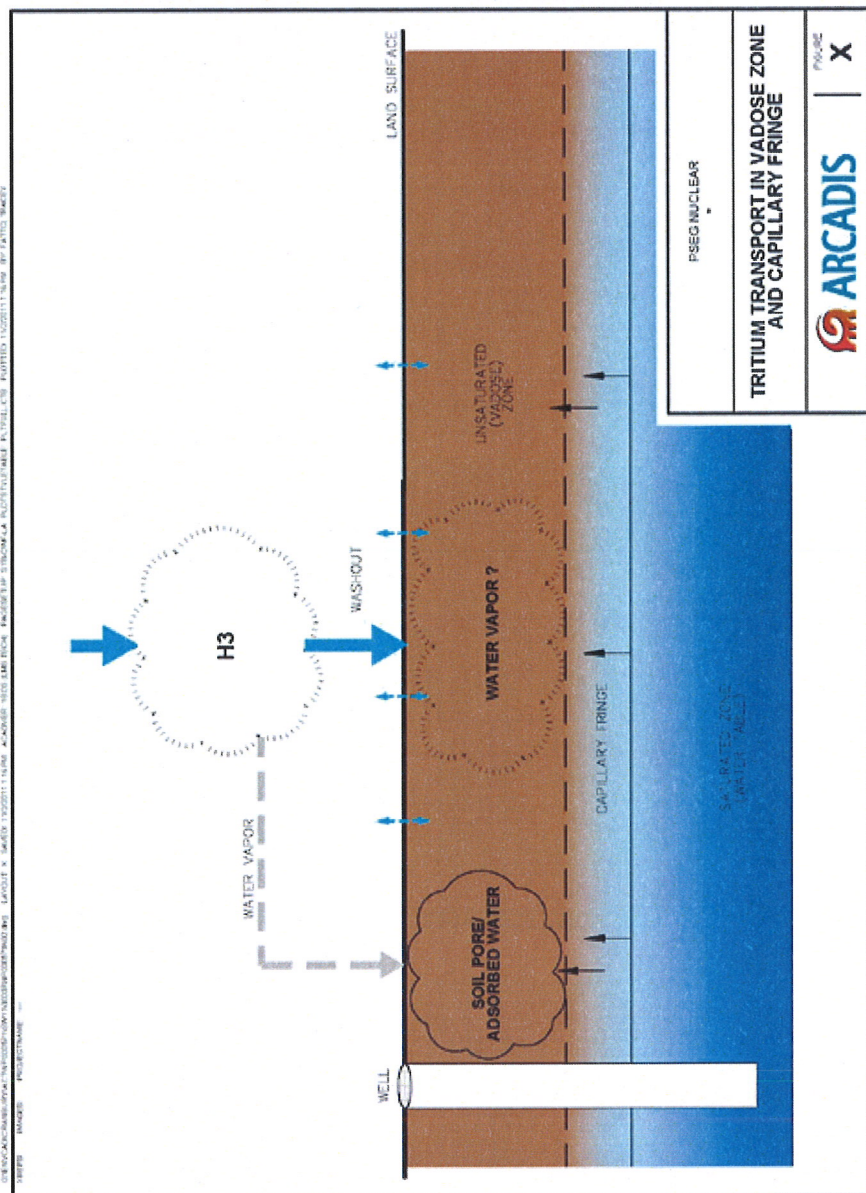


Figure 3. Tritium Transport in Vadose Zone and Capillary Fringe



## REFERENCES

Electric Power Research Institute (EPRI). 2009. Review of Methods and Tools for Estimating Atmospheric Deposition of Tritium at Nuclear Power Plants. Report No. 1019226. Palo Alto, CA: 2009.