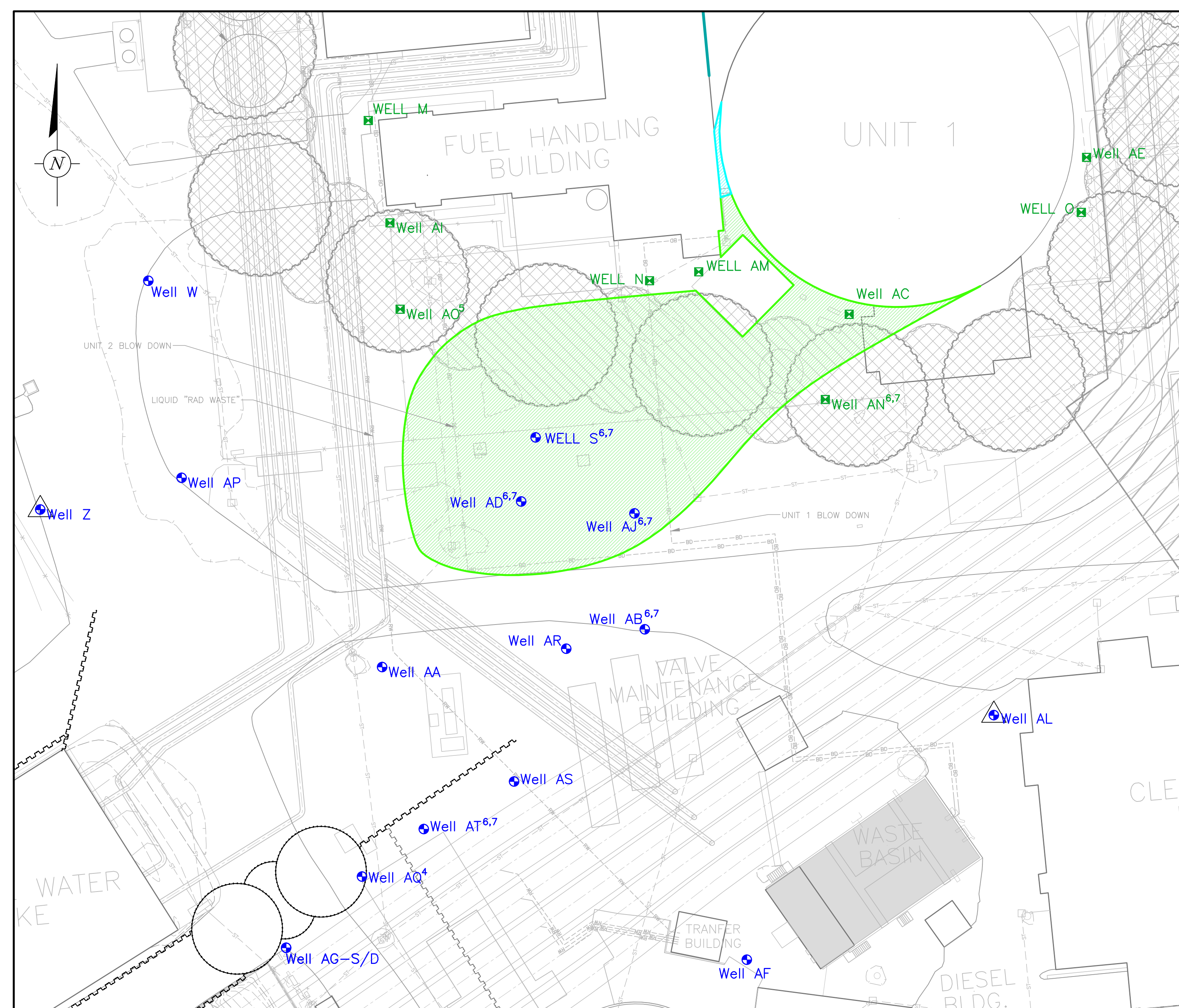


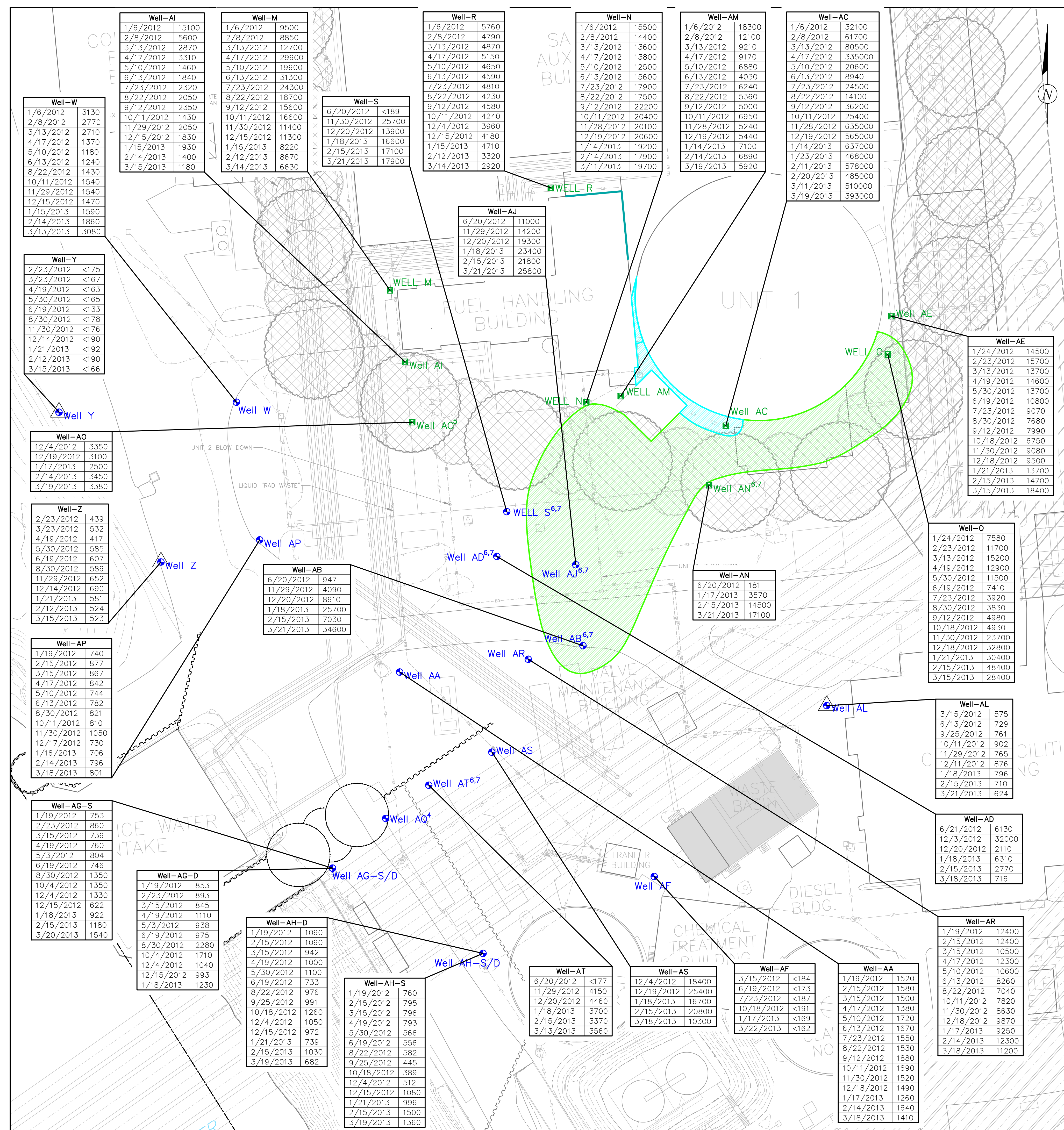
**BASELINE TRITIUM ISOCONCENTRATION
PRE-GROUNDWATER RECOVERY - MARCH 2004**

SCALE: 1"=30'



**TRITIUM ISOCONCENTRATION - MARCH 2012
GROUNDWATER RECOVERY SYSTEM IN SERVICE**

SCALE: 1"=30'



TRITIUM ISOCONCENTRATION - MARCH 2013

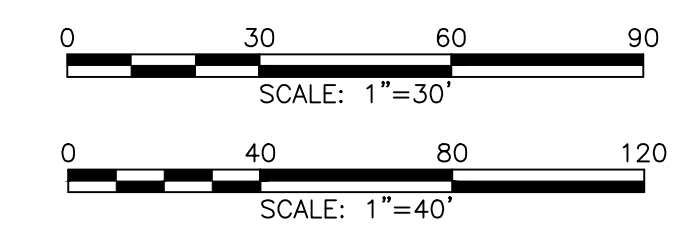
SCALE: 1"=30'

LEGEND:

- WELL R** MONITORING WELL LOCATED WITHIN THE LIMITS OF THE COFFERDAM; SCREENED IN THE SHALLOW WATER-BEARING UNIT, APPROXIMATELY 20 FEET DEEP.
- WELL S** MONITORING WELL LOCATED OUTSIDE THE LIMITS OF THE COFFERDAM; SCREENED IN THE SHALLOW-WATER BEARING UNIT, APPROXIMATELY 35 FEET DEEP.
- WELL S** MONITORING WELL INSTALLED AS PART OF THE SALEM GENERATING STATION (SGS) UNIT 1 SPENT FUEL POOL LEAK INVESTIGATION AT VARIOUS DEPTHS, WHICH ARE INCLUDED IN BOTH THE REMEDIAL ACTION AND RADIOLOGICAL GROUNDWATER PROTECTION SYSTEM (RGPP) SAMPLING PROGRAMS.
- Blue Shaded Area** LIMIT OF GROUNDWATER WITH TRITIUM CONCENTRATION GREATER THAN 1,000,000 PCP/L
- Green Shaded Area** LIMIT OF GROUNDWATER WITH TRITIUM CONCENTRATION GREATER THAN 500,000 PCP/L
- Cyan Shaded Area** LIMIT OF GROUNDWATER WITH TRITIUM CONCENTRATION GREATER THAN 100,000 PCP/L
- Light Blue Shaded Area** LIMIT OF GROUNDWATER WITH TRITIUM CONCENTRATION GREATER THAN THE NEW JERSEY GROUNDWATER QUALITY CRITERION (20,000 PCP/L)
- Black Dashed Line** PROPERTY BOUNDARY
- Blue Dashed Line** BLOW DOWN PIPING
- Blue Dotted Line** LIQUID "RAD" WASTE LINE
- Blue Solid Line** STYROFOAM-FILLED SEISMIC GAP LOCATED BETWEEN THE SGS UNIT 1 FUEL HANDLING BUILDING AND THE AUXILIARY BUILDING
- Blue Solid Line** SERVICE WATER PIPING
- Blue Solid Line** CIRCULATING WATER OUTLET PIPING
- Blue Solid Line** CIRCULATING WATER INLET PIPING
- Blue Solid Line** STORM SEWER PIPING
- Blue Solid Line** CATCH BASIN
- Blue Solid Line** MANHOLE (STORM SEWER)
- Blue Solid Line** SHEET PILE - EXTENDS FROM ABOVE THE WATER TABLE THROUGH THE KIRKWOOD FORMATION
- Blue Solid Line** SHEET PILE - DOES NOT EXTEND TO AN ELEVATION ABOVE THE WATER TABLE.

NOTES:

1. TRITIUM CONCENTRATIONS REPORTED IN PICOCURIES PER LITER (PCP/L).
2. CONTOURS FOR THE BASELINE TRITIUM PLUME ARE BASED ON DATA GENERATED DURING THE REMEDIAL INVESTIGATION.
3. TRITIUM CONCENTRATIONS OBSERVED IN MONITORING WELLS SCREENED IN THE SHALLOW WATER-BEARING UNIT ARE PRESENTED ON THIS FIGURE.
4. WELL AO SAMPLING DISCONTINUED AS WELL IS ISOLATED FROM GROUNDWATER FLOW.
5. WELL AO WAS PERMANENTLY TAKEN OFFLINE IN MAY 2009.
6. THE GROUNDWATER RECOVERY SYSTEM (GRS) WAS TAKEN OUT OF SERVICE ON APRIL 16, 2012 DUE TO TOTALIZER INACCURACY. INCREMENTAL REACTIVATION OF THE GRS COMMENCED ON AUGUST 9, 2012 AND HAS INCLUDED THE MANUAL OPERATION OF ALL GRS WELLS WITH THE EXCEPTION OF WELL AN.
7. IN JUNE 2012, SAMPLES WERE COLLECTED FROM THE GRS PUMPING WELLS (WELL AB, WELL AJ, WELL AN, WELL AT, AND WELL S). ANALYTICAL RESULTS WERE DETERMINED NOT TO BE REPRESENTATIVE OF GROUNDWATER QUALITY AND THEREFORE ARE NOT INCLUDED ON THIS FIGURE.
8. IN NOVEMBER 2012, THE GROUNDWATER SAMPLING TECHNIQUE PERFORMED AT WELL AC WAS CHANGED FROM BAILER GRAB TO LOW-FLOW.



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

**TRITIUM ISOCONCENTRATION MAP
MARCH 2013**



CITY: Newark, NJ; COUNTY: Essex; STATE: NJ; PROJECT: SALEM GENERATING STATION (SGS) UNIT 1 SPENT FUEL POOL LEAK INVESTIGATION; DRAWING: TRITIUM ISOCONCENTRATION MAP - MARCH 2013; DATE: 3/15/2013; SCALE: 1"=30'; AUTHOR: WASHINGTON STATE UNIVERSITY; CHECKED: WASHINGTON STATE UNIVERSITY; PROJECT: SALEM GENERATING STATION (SGS) UNIT 1 SPENT FUEL POOL LEAK INVESTIGATION; DRAWING: TRITIUM ISOCONCENTRATION MAP - MARCH 2013; DATE: 3/15/2013; SCALE: 1"=30'; AUTHOR: WASHINGTON STATE UNIVERSITY; CHECKED: WASHINGTON STATE UNIVERSITY