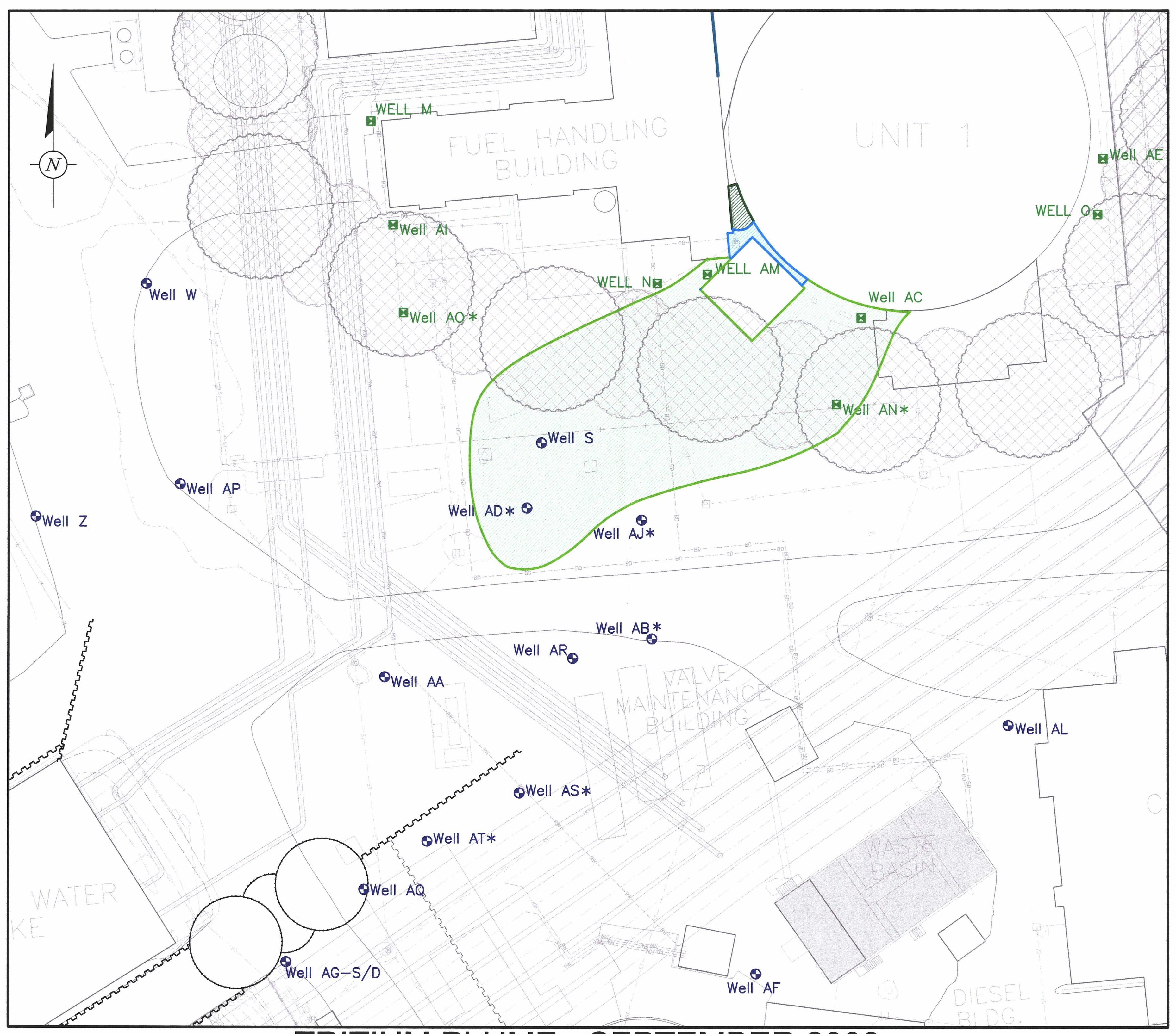
BASELINE TRITIUM PLUME - PRE-GROUNDWATER EXTRACTION - MARCH 2004

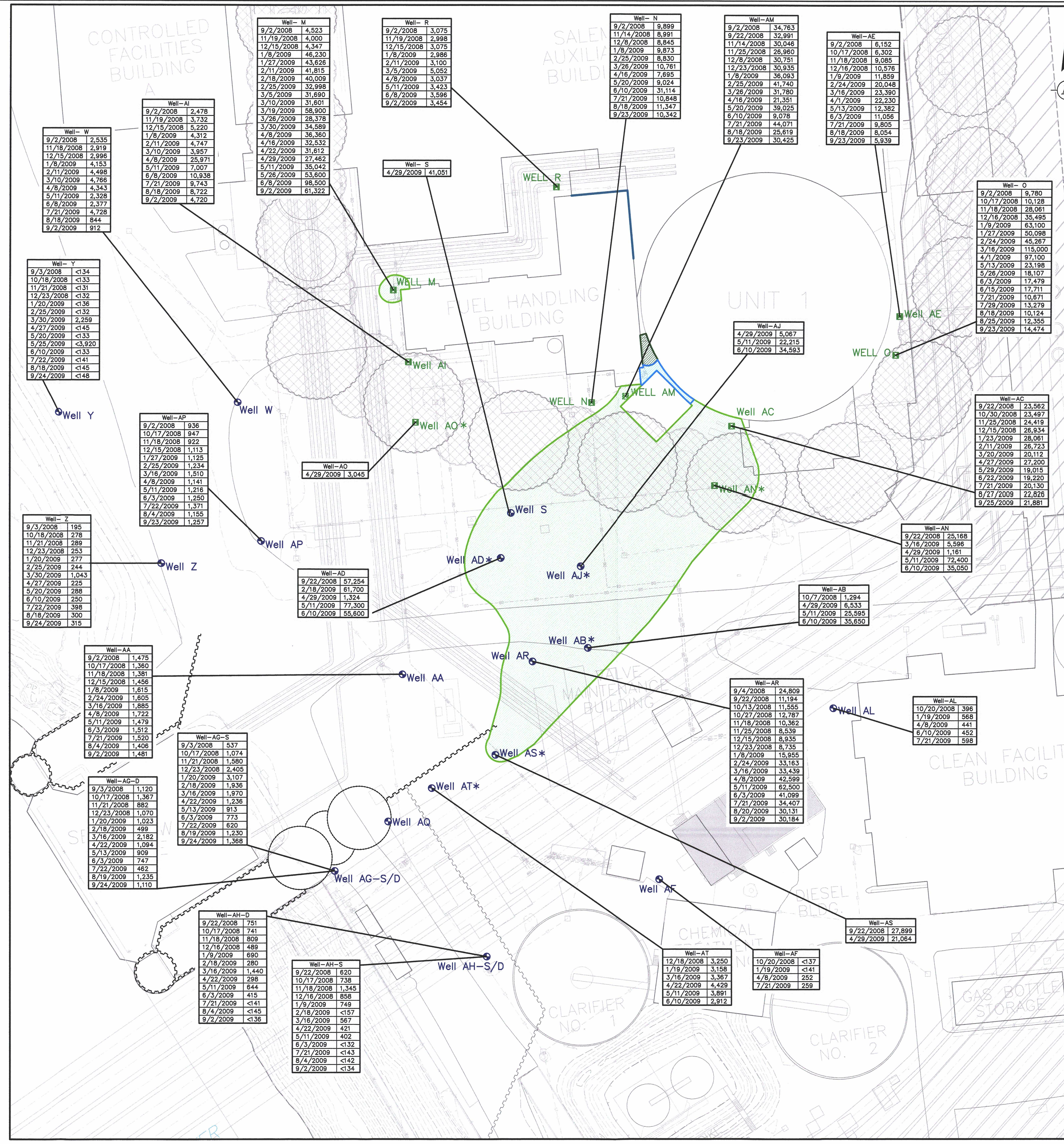
SCALE: 1"=30'



TRITIUM PLUME - SEPTEMBER 2008

FULL SCALE SYSTEM IN SERVICE

SCALE: 1"=30'



Well- W	
9/2/2008	2,535
11/18/2008	2,919
12/15/2008	2,996
1/8/2009	4,153
2/11/2009	4,498
3/10/2009	4,766
4/8/2009	4,343
5/11/2009	2,328
6/8/2009	2,377
7/21/2009	4,728
8/18/2009	844
9/2/2009	912

Well-AI	
9/2/2008	2,478
11/19/2008	3,732
12/15/2008	5,220
1/8/2009	4,312
2/11/2009	4,747
3/10/2009	3,957
4/8/2009	25,971
5/11/2009	7,007
6/8/2009	10,938
7/21/2009	9,743
8/18/2009	8,722
9/2/2009	4,720

Well- M	
9/2/2008	4,523
11/19/2008	4,000
12/15/2008	4,347
1/8/2009	46,230
1/27/2009	43,626
2/11/2009	41,815
2/18/2009	40,009
2/25/2009	32,998
3/5/2009	31,690
3/10/2009	31,601
3/19/2009	58,900
3/26/2009	28,378
3/30/2009	34,589
4/8/2009	36,360
4/16/2009	32,532
4/22/2009	31,612
4/29/2009	27,462
5/11/2009	35,042
5/26/2009	53,600
6/8/2009	98,500
9/2/2009	61,322

Well- R	
9/2/2008	3,075
11/19/2008	2,998
12/15/2008	3,075
1/8/2009	2,986
2/11/2009	3,100
3/5/2009	5,052
4/8/2009	3,037
5/11/2009	3,423
6/8/2009	3,596
9/2/2009	3,454

Well- S	
4/29/2009	41,051

Well- N	
9/2/2008	9,899
11/14/2008	8,991
12/8/2008	8,845
1/8/2009	9,873
2/25/2009	8,830
3/26/2009	10,761
4/16/2009	7,695
5/20/2009	9,024
6/10/2009	31,114
7/21/2009	10,848
8/18/2009	11,347
9/23/2009	10,342

Well-AM	
9/2/2008	34,763
9/22/2008	32,991
11/14/2008	30,046
11/25/2008	26,960
12/8/2008	30,751
12/23/2008	30,935
1/8/2009	36,093
2/25/2009	41,740
3/26/2009	31,780
4/16/2009	21,351
5/20/2009	39,025
6/10/2009	9,078
7/21/2009	44,071
8/18/2009	25,619
9/23/2009	30,425

Well-AE	
9/2/2008	6,152
10/17/2008	6,302
11/18/2008	9,085
12/16/2008	10,576
1/9/2009	11,859
2/24/2009	20,048
3/16/2009	23,390
4/1/2009	22,230
5/13/2009	12,382
6/3/2009	11,056
7/21/2009	9,805
8/18/2009	8,054
9/23/2009	5,939

Well- O	
9/2/2008	9,780
10/17/2008	10,128
11/18/2008	28,061
12/16/2008	35,495
1/9/2009	63,100
1/27/2009	50,098
2/24/2009	45,267
3/16/2009	115,000
4/1/2009	97,100
5/13/2009	23,198
5/26/2009	18,107
6/3/2009	17,479
6/15/2009	17,711
7/21/2009	10,671
7/29/2009	13,279
8/18/2009	10,124
8/25/2009	12,355
9/23/2009	14,474

Well-AJ	
4/29/2009	5,067
5/11/2009	22,215
6/10/2009	34,593

Well-AC	
9/22/2008	23,562
10/30/2008	23,497
11/25/2008	24,419
12/15/2008	26,934
1/23/2009	28,061
2/11/2009	26,723
3/20/2009	20,112
4/27/2009	27,200
5/29/2009	19,015
6/22/2009	19,220
7/21/2009	20,130
8/27/2009	22,826
9/25/2009	21,881

Well-AN	
9/22/2008	25,168
3/16/2009	5,596
4/29/2009	1,161
5/11/2009	72,400
6/10/2009	35,050

Well-AB	
10/7/2008	1,294
4/29/2009	6,533
5/11/2009	25,595
6/10/2009	35,650

Well-AR	
9/4/2008	24,809
9/22/2008	11,194
10/13/2008	11,555
10/27/2008	12,787
11/18/2008	10,362
11/25/2008	8,539
12/15/2008	8,935
12/23/2008	8,735
1/8/2009	15,955
2/24/2009	33,163
3/16/2009	33,439
4/8/2009	42,599
5/11/2009	62,500
6/3/2009	41,099
7/21/2009	34,407
8/20/2009	30,131
9/2/2009	30,184

Well-AL	
10/20/2008	396
1/19/2009	568
4/8/2009	441
6/10/2009	452
7/21/2009	598

Well- Y	
9/3/2008	<134
10/18/2008	<133
11/21/2008	<131
12/23/2008	<132
1/20/2009	<136
2/25/2009	<132
3/30/2009	2,259
4/27/2009	<145
5/20/2009	<133
5/25/2009	<3,920
6/10/2009	<133
7/22/2009	<141
8/18/2009	<145
9/24/2009	<148

Well-AP	
9/2/2008	936
10/17/2008	947
11/18/2008	922
12/15/2008	1,113
1/27/2009	1,125
2/25/2009	1,234
3/16/2009	1,510
4/8/2009	1,141
5/11/2009	1,216
6/3/2009	1,250
7/22/2009	1,371
8/4/2009	1,155
9/23/2009	1,257

Well-AO	
4/29/2009	3,045

Well- Z	
9/3/2008	195
10/18/2008	278
11/21/2008	289
12/23/2008	253
1/20/2009	277
2/25/2009	244
3/30/2009	1,043
4/27/2009	225
5/20/2009	288
6/10/2009	250
7/22/2009	398
8/18/2009	300
9/24/2009	315

Well-AD	
9/22/2008	57,254
2/18/2009	61,700
4/29/2009	1,324
5/11/2009	77,300
6/10/2009	55,600

Well-AA	
9/2/2008	1,475
10/17/2008	1,360
11/18/2008	1,381
12/15/2008	1,456
1/8/2009	1,615
2/24/2009	1,605
3/16/2009	1,885
4/8/2009	1,722
5/11/2009	1,479
6/3/2009	1,512
7/21/2009	1,520
8/4/2009	1,406
9/2/2009	1,481

Well-AG-S	
9/3/2008	537
10/17/2008	1,074
11/21/2008	1,580
12/23/2008	2,405
1/20/2009	3,107
2/18/2009	1,936
3/16/2009	1,970
4/22/2009	1,236
5/13/2009	913
6/3/2009	773
7/22/2009	620
8/19/2009	1,230
9/24/2009	1,368

Well-AG-D	
9/3/2008	1,120
10/17/2008	1,367
11/21/2008	882
12/23/2008	1,070
1/20/2009	1,023
2/18/2009	499
3/16/2009	2,182
4/22/2009	1,094
5/13/2009	909
6/3/2009	747
7/22/2009	462
8/19/2009	1,235
9/24/2009	1,110

Well-AH-D	
9/22/2008	751
10/17/2008	741
11/18/2008	809
12/16/2008	489
1/9/2009	690
2/18/2009	280
3/16/2009	1,440
4/22/2009	298
5/11/2009	644
6/3/2009	415
7/21/2009	<141
8/4/2009	<145
9/2/2009	<136

Well-AH-S	
9/22/2008	620
10/17/2008	738
11/18/2008	1,345
12/16/2008	858
1/9/2009	749
2/18/2009	<157
3/16/2009	567
4/22/2009	421
5/11/2009	402
6/3/2009	<132
7/21/2009	<143
8/4/2009	<142
9/2/2009	<134

Well-AT	
12/18/2008	3,250
1/19/2009	3,158
3/16/2009	3,367
4/22/2009	4,429
5/11/2009	3,891
6/10/2009	2,912

Well-AF	
10/20/2008	<137
1/19/2009	<141
4/8/2009	252
7/21/2009	259

Well-AS	
9/22/2008	27,899
4/29/2009	21,064

TRITIUM PLUME - SEPTEMBER 2009

GROUNDWATER EXTRACTION SYSTEM IN SERVICE

SCALE: 1"=30'

LEGEND:

- WELL R — MONITORING WELL SCREENED IN THE SHALLOW, WATER-BEARING UNIT WITHIN THE LIMITS OF THE COFFERDAM.
- WELL S — MONITORING WELL SCREENED IN THE SHALLOW, WATER-BEARING UNIT OUTSIDE THE LIMITS OF THE COFFERDAM.
- LIMIT OF GROUNDWATER WITH TRITIUM ABOVE 1,000,000 pCi/L
- LIMIT OF GROUNDWATER WITH TRITIUM ABOVE 500,000 pCi/L
- LIMIT OF GROUNDWATER WITH TRITIUM ABOVE 100,000 pCi/L
- LIMIT OF GROUNDWATER WITH TRITIUM ABOVE THE NEW JERSEY GROUNDWATER QUALITY CRITERION (20,000 pCi/L)
- PROPERTY BOUNDARY
- BLOW DOWN PIPING
- LIQUID "RAD" WASTE LINE
- SEISMIC GAP (STYROFOAM)
- SERVICE WATER PIPING
- CIRCULATING WATER OUTLET PIPING
- CIRCULATING WATER INLET PIPING
- STORM SEWER PIPING
- CATCH BASIN
- MANHOLE (STORM SEWER)
- SHEET PILE – EXTENDS FROM ABOVE THE WATER TABLE THROUGH THE KIRKWOOD FORMATION
- SHEET PILE – DOES NOT EXTEND TO AN ELEVATION ABOVE THE WATER TABLE.
- LOCATION OF THRUST BLOCK (DASHED WHERE INFERRED)

NOTES:

1. CONTOURS FOR THE BASELINE TRITIUM PLUME ARE BASED ON DATA GENERATED DURING THE REMEDIAL INVESTIGATION.
2. WELL AQ SAMPLING DISCONTINUED AS WELL IS ISOLATED FROM GROUNDWATER FLOW
3. WELL S OUT OF SERVICE DUE TO LOW YIELD.
4. * DENOTES WELLS WHERE MOST RECENT HISTORIC DATA WAS USED TO GENERATE CONTOURS.

D-02X

Path\Name: G:\APROJECT\PSEG\Salem - Unit 1 - Tritium\NP000571.0009\CADD\QTR_3_RAPR\FIG-02 - GROUNDWATER TRITIUM RESULTS - SEPT 2009.dwg
Plot Date\Time: 3/1/2010 3:49 PM Page Set Up Name: ---- Current Plotstyle: ----
Acad Version: 17.1s (LMS Tech) User Name: Wasilewski, Matt

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Project Director	P. MILIONIS
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Technical Review	C. SHARPE

0 30 60 90 SCALE: 1"=30'

0 40 80 120 SCALE: 1"=40'

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PSEG NUCLEAR, LLC
SALEM GENERATING STATION

GROUNDWATER TRITIUM RESULTS

HANCOCK'S BRIDGE, NEW JERSEY

Project Number	NP000571.0008
Date	28 JANUARY, 2010
Figure	2