

**Table 2-3  
2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

	Operable Unit 1			HFBR-Tritium Remediation Project			
	Groundwater Withdrawal (1,000 gallons per month)						
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	115-027 EW-1 -90 to -130 150 to 190	115-043 EW-2 -40 to -80 100 to 140	RA V  Monthly Total	105-040 EW-9 -61 to -81 130 to 150	105-039 EW-10 -60 to -80 130 to 150	105-041 EW-11 -60 to -80 130 to 150	Tritium Remediation  Monthly Total
January	13,127	0	13,127	0	0	0	0
February	10,670	0	10,670	0	0	0	0
March	7,225	0	7,225	0	0	0	0
April	0	0	0	0	0	0	0
May	5,949	11,936	17,885	0	0	0	0
June	9,803	20,133	29,936	0	0	0	0
July	11,155	16,238	27,394	0	0	0	0
August	9,546	19,793	29,340	0	0	0	0
September	1,925	3,968	5,893	0	0	0	0
October	9,275	18,371	27,646	0	0	0	0
November	83	164	247	0	0	0	0
December	9,324	18,288	27,612	0	0	0	0
Annual Average (K gal/month)	7,361	9,182	16,543	0	0	0	0

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

HFBR = High Flux Beam Reactor

HFBR Tritium Remediation Project placed in standby mode September 2000

Elevations rounded to nearest foot

**Table 2-3, cont.**  
**2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>							
<b>MIDDLE ROAD SYSTEM - Groundwater Withdrawal (1,000 gallons per month)</b>							
BNL Well No.	113-23	113-24	113-25	113-26	113-27	106-66	MIDDLE ROAD
Extraction Well	RW-1	RW-2	RW-3	RW-4	RW-5	RW-6	
Screen Int. elevation (ft. msl)	-17 to -57	-99 to -129	-159 to -199	-98 to -128	-91 to -121	-124 to -154	
depth (feet)	90 to 130	170 to 200	228 to 268	150 to 180	150 to 180	188 to 218	Monthly Total
January	3,568	4,642	5,633	0	0	3,663	17,507
February	1,559	838	922	0	0	2,202	5,522
March	0	0	4,893	0	0	2,121	7,014
April	0	0	4,791	0	0	4,306	9,097
May	1,407	2,173	4,287	0	0	2,630	10,498
June	3,648	4,454	5,535	0	0	2,406	16,044
July	3,106	3,599	4,951	0	0	524	12,179
August	3,646	4,183	5,620	0	0	511	13,960
September	3,286	3,889	4,951	0	0	9,383	21,509
October	2,460	2,990	3,882	0	0	2,260	11,592
November	3,400	4,413	5,639	0	0	3,245	16,697
December	3,182	4,228	5,272	1,015	3,300	2,996	19,994
Annual Average (K gal/month)	2,444	2,966	4,723	86	280	3,008	13,468

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.**  
**2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>								
<b>SOUTH BOUNDARY SYSTEM - Groundwater Withdrawal (1,000 gallons per month)</b>								
BNL Well No.	121-017	121-016	121-015	122-014	122-013	122-012	122-30	SOUTH
Extraction Well	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-12	BOUNDARY
Screen Int.								
elevation (ft. msl)	-79 to -119	-88 to -108 -118 to -128	-91 to -131	-105 to -145	-115 to -155	-131 to -151 -171 to -191	-124 to -164	
depth (feet)	150 to 190	160 to 180 190 to 200	160 to 200	160 to 200	170 to 210	190 to 210 230 to 250	180 to 220	Monthly Total
January	4,432	4,571	4,658	4,547	4,470	4,879	0	27,557
February	2,933	2,906	2,993	2,913	2,956	2,939	0	17,641
March	4,074	4,052	4,072	4,126	4,003	0	0	20,327
April	3,671	3,753	2,416	3,772	3,764	0	0	17,377
May	3,668	3,757	3,546	3,881	3,667	0	0	18,519
June	4,322	4,343	4,271	4,357	4,333	0	0	21,627
July	3,729	3,885	3,950	3,931	3,925	0	0	19,419
August	4,151	4,371	4,371	4,376	4,397	0	0	21,666
September	3,715	3,661	3,647	3,856	3,817	0	0	18,696
October	2,864	2,861	3,043	3,053	3,008	0	0	14,829
November	4,129	4,265	4,422	4,378	4,564	4,639	0	26,397
December	4,095	4,055	2,382	4,088	4,288	4,135	0	23,043
Annual Average (K gal/month)	3,821	3,880	3,653	3,947	3,939	1,372	0	20,592

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.**  
**2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat (K gal/month)</b>							
<b>CARBON TETRACHLORIDE SYSTEM</b>							
BNL Well No.	085-158	085-159	095-278	CARBON	SOUTH	MIDDLE	OU-III
Extraction Well	EW-13	EW-14	EW-15	TETRACHLORIDE	BOUNDARY	ROAD	
Screen Int.				SYSTEM			
elevation (ft. msl)	+50 to +30	+50 to +30	-7.4 to -27.4				
depth (feet)	35 to 55	32 to 52	65 to 85	Monthly	Monthly	Monthly	Monthly
				Total	Total	Total	Total
January	0	0	0	0	27,557	17,507	45,064
February	0	0	0	0	17,641	5,522	23,163
March	0	0	0	0	20,327	7,014	27,341
April	0	0	1,632	1,632	17,377	9,097	28,106
May	0	0	1,742	1,742	18,519	10,498	30,759
June	0	0	0	0	21,627	16,044	37,670
July	0	0	0	0	19,419	12,179	31,599
August	0	0	0	0	21,666	13,960	35,626
September	0	0	0	0	18,696	21,509	40,205
October	0	0	0	0	14,829	11,592	26,422
November	0	0	0	0	26,397	16,697	43,094
December	0	0	0	0	23,043	19,994	43,036
Annual Average (K gal/month)	0	0	282	281	20,592	13,468	34,340

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.  
2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>								
<b>OFFSITE INDUSTRIAL PARK SYSTEM - Groundwater Withdrawal (1,000 gallons per month)</b>								
BNL Well No.	000-231	000-233	000-235	000-237	000-239	000-241	000-243	OFFSITE INDUSTRIAL PARK
Extraction Well	UVB-1	UVB-2	UVB-3	UVB-4	UVB-5	UVB-6	UVB-7	
Screen Int.								
Influent elevation (ft. msl)	-137 to -157	-115.5 to -135.5	-123 to -143	-98 to -118	-109 to -129	-110 to -130	-123 to -143	
depth (feet)	220 to 240	195 to 215	194 to 214	170 to 190	180 to 200	190 to 210	205 to 225	
Effluent elevation (ft. msl)	-82 to -102	-60.5 to -80.5	-68 to -88	-53 to -73	-54 to -74	-58 to -78	-68 to -88	Monthly
depth (feet)	165 to 185	140 to 160	139 to 159	125 to 145	125 to 145	140 to 160	150 to 170	Total
January	964	1,937	2,427	2,089	2,541	2,594	1,670	14,222
February	5	2,142	1,734	1,712	1,870	2,016	2,075	11,554
March	1,491	536	1,753	2,827	2,230	1,973	2,334	13,144
April	1,127	0	1,164	1,915	2,219	2,146	2,230	10,801
May	0	0	1,668	141	2,415	2,342	0	6,566
June	0	0	1,132	179	603	2,027	0	3,941
July	0	579	1,553	220	14	2,512	2,717	7,595
August	0	3,021	267	452	91	2,054	2,287	8,172
September	0	3,025	0	15	2	1,566	1,934	6,542
October	0	2,424	1,220	1,535	1,585	2,169	1,424	10,357
November	1,057	5	633	2,233	1,796	1,970	1,303	8,997
December	1,528	884	1,875	2,697	2,553	2,614	2,328	14,479
Annual Average (K gal/month)	518	1,210	1,288	1,334	1,494	2,169	1,692	9,698

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.**  
**2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>					
<b>BUILDING 96 SYSTEM - Groundwater Withdrawal and Reinjection (1,000 gallons per month)</b>					
BNL Well No.	095-151	095-153	095-155	095-157	BUILDING
Extraction Well	RTW-1	RTW-2	RTW-3	RTW-4	96
Screen Int.					
Influent					
elevation (ft. msl)	+34 to+24	+26 to +16	+26 to +16	+23 to +13	
depth (feet)	48 to 58	48 to 58	48 to 58	48 to 58	
Effluent					
elevation (ft. msl)	+57 to +47	+49 to +39	+49 to +39	+46 to +36	Monthly
depth (feet)	25 to 35	25 to 35	25 to 35	25 to 35	Total
January					0
February					0
March					0
April					0
May					0
June					0
July					0
August					0
September					0
October					0
November					0
December					0
Annual					
Average (K gal/month)	0	0	0	0	0

Notes:

Source: EM Field Engineer

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

RTW-2, 3 and 4 placed offline on July 13, 2004

Annual average based on actual pumping durations

**Table 2-3, cont.  
2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>			
<b>WESTERN SOUTH BOUNDARY System (1,000 gallons per month)</b>			
BNL Well No.	126-12	127-05	Monthly  Total
Extraction Well	WSB-1	WSB-2	
Screen Int. elevation (ft. msl)	-60 to -80	-80 to -100	
depth (feet)	140 to 160	150 to 170	
January	6,772	6,721	13,493
February	6,061	5,969	12,030
March	6,744	6,629	13,373
April	6,249	6,256	12,505
May	6,036	7,177	13,213
June	4,195	4,969	9,164
July	6,974	8,287	15,261
August	6,376	7,507	13,883
September	1,315	1,547	2,862
October	2	5	7
November	6,153	7,253	13,406
December	421	497	918
Annual Average (K gal/month)	4,775	5,235	10,010

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.  
2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat Strontium 90 remediation System (1,000 gallons per month)</b>		
BNL Well No.	106-92	Monthly  Total
Extraction Well	SR-90 EW-1	
Screen Int.		
elevation (ft. msl)	+40.5 to +25.5	
depth (feet)	23.5 to 38.5	
January	0	0
February	0	0
March	0	0
April	0	0
May	0	0
June	0	0
July	558	558
August	250	250
September	249	249
October	239	239
November	256	256
December	282	282
Annual Average (K gal/month)	154	153

Notes:

Differences in averages due to rounding

Source: LTRA Project Manager

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.**  
**2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>					
<b>LIPA SYSTEM - Groundwater Withdrawal (1,000 gallons per month)</b>					
BNL Well No.	000-453	000-455	000-457	000-461	LIPA
Extraction Well	EW-1L	EW-2L	EW-3L	EW-4L	
Screen Int. elevation (ft. msl)	-111 to -131	-115 to -135	-104 to -124	-192 to -212	Monthly
depth (feet)	217 to 237	224 to 244	216 to 236	304 to 324	Total
January	4,098	4,249	4,247	5,092	17,686
February	3,763	3,889	3,860	5,273	16,785
March	4,968	4,913	4,830	5,139	19,850
April	2,919	2,874	2,961	2,971	11,725
May	4,267	4,300	4,442	4,972	17,981
June	3,368	3,347	3,549	3,689	13,953
July	2,144	2,017	2,160	1,537	7,858
August	4,505	4,248	4,264	2,360	15,377
September	4,619	4,408	4,629	4,002	17,658
October	5,535	5,237	5,300	2,782	18,854
November	4,653	4,667	4,721	4,459	18,500
December	778	3,086	3,113	2,941	9,917
Annual Average (K gal/month)*	9,127	9,456	9,624	9,018	15,757

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

\* Annual average is based on actual pumping timeframe

**Table 2-3, cont.**  
**2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>						
<b>AIRPORT SYSTEM - Groundwater Withdrawal (1,000 gallons per month)</b>						
BNL Well No.	800-109	800-110	800-111	800-112	800-113	AIRPORT
Extraction Well	RTW-1A	RTW-2A	RTW-3A	RTW-4A	RTW-5A	
Screen Int.						
Influent elevation (ft. msl)	-108 to -128	-109 to -129	-130 to -150	-184 to -204	-133 to -153	Monthly
depth (feet)	188 to 208	188 to 208	210 to 230	268 to 288	220 to 240	Total
Effluent elevation (ft. msl)	+25 to -15	+24 to -16	+25 to -15	+24 to -16	+22 to -18	Monthly
depth (feet)	55 to 95	55 to 95	55 to 95	60 to 100	65 to 105	Total
January	3,708	3,708	4,513	3,191	4,451	15,864
February	3,495	3,495	3,810	1	4,185	11,492
March	4,185	4,185	4,185	0	5,461	13,830
April	674	674	2,750	343	3,479	7,245
May	0	0	305	0	4,698	5,003
June	211	211	0	0	988	1,199
July	1,788	1,788	2,888	43	721	7,227
August	2,947	2,947	2,474	0	1,727	10,095
September	4,315	4,315	2,156	2,967	444	14,197
October	1,374	1,374	1,369	1,485	1,491	7,093
November	748	748	1,195	1,154	1,142	4,986
December	1,321	1,321	1,365	1,286	1,297	6,591
Annual Average (K gal/month)*	4,943	4,943	5,393	2,106	6,013	6,223

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

RTW-1A and RTW-2A flow estimated. Both wells share a common flow meter, individual well pumpage estimated at 50% of actual flow meter reading.

\* Annual average is based on actual pumping timeframe

**Table 2-3, cont.**  
**2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>			
<b>INDUSTRIAL PARK EAST- Groundwater Withdrawal (1,000 gallons per month)</b>			
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	EWI-1  -166 to -186 235 to 255	EWI-2  -225 to -245 295 to 315	INDUSTRIAL PARK EAST Monthly Total
January	8,064.00	3,688.00	11,752
February	4,811.00	3,261.00	8,072
March	2,434.00	3,488.00	5,922
April	3,023.00	3,364.00	6,387
May	5,419.00	3,596.00	9,015
June	5,404.00	3,405.00	8,809
July	5,466.00	3,440.00	8,906
August	4,317.00	2,771.00	7,088
September	2,058.00	1,300.00	3,358
October	3,584.00	2,284.00	5,868
November	3,486.00	2,493.00	5,979
December	3,095.00	2,234.00	5,329
Annual Average (K gal/month)	25,534	17,618	5,654

**Notes:**

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.**  
**2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>			
<b>NORTH STREET - Groundwater Withdrawal (1,000 gallons per month)</b>			
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	000-471 NS-1 -64 to -104 165 to 205	000-473 NS-2 -96 to -126 190 to 220	NORTH STREET  Monthly Total
January	8,492	10,246	18,738
February	7,139	8,306	15,445
March	9,019	10,457	19,476
April	6,466	7,430	13,896
May	10,199	11,849	22,048
June	8,698	9,824	18,522
July	9,006	9,922	18,928
August	9,523	10,487	20,010
September	8,263	9,114	17,377
October	9,935	10,997	20,932
November	9,589	4,530	14,119
December	1,646	2	1,648
Annual Average (K gal/month)	16,389	17,265	13,519

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.**  
**2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit III - Pump and Treat</b>			
<b>NORTH STREET EAST- Groundwater Withdrawal (1,000 gallons per month)</b>			
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	000-487 NSE-1 -71 to -101 161 to 191	000-488 NSE-2 -71 to -101 152 to 182	NORTH STREET EAST Monthly Total
January	9,145	4,994	14,139
February	8,182	4,474	12,656
March	9,139	4,850	13,989
April	8,623	4,362	12,985
May	9,682	4,876	14,558
June	8,506	4,366	12,872
July	9,909	5,107	15,016
August	9,162	4,650	13,812
September	9,190	4,670	13,860
October	9,488	4,808	14,296
November	9,122	4,583	13,705
December	7,321	3,691	11,012
Annual Average (K gal/month)	17,976	9,269	13,218

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

**Table 2-3, cont.**  
**2005 Remediation Well Pumpage Report**

2005 BNL Groundwater Status Report

<b>Operable Unit VI - Pump and Treat</b>			
<b>EDB SYSTEM- Groundwater Withdrawal (1,000 gallons per month)</b>			
BNL Well No.	000-503	000-504	OU VI EDB
Extraction Well	EW-1	EW-2	
Screen Int.			
elevation (ft. msl)	-41 to -61	-45 to -65	Monthly
depth (feet)	115 to 135	115 to 135	Total
January	8,023	9,781	17,804
February	4,477	6,158	10,635
March	6,569	6,654	13,223
April	6,298	6,295	12,593
May	7,311	2,403	9,714
June	6,522	6,229	12,751
July	6,993	6,705	13,698
August	6,718	6,548	13,266
September	6,713	6,583	13,296
October	6,950	6,758	13,708
November	6,761	6,767	13,528
December	6,640	6,796	13,436
Annual Average (K gal/month)	13,404	12,987	13,138

Notes:

Source: BNL Plant Engineering Division.

ft. msl = Elevation in feet referenced to mean sea level.

Elevations rounded to nearest foot

Flow per well estimated, average combined flow 155 gallons per minute