

**Table 2-2
2011 Remediation Well Pumpage Report**

2011 BNL Groundwater Status Report

	Operable Unit 1			HFBR-Tritium Remediation Project				
	Groundwater Withdrawal (1,000 gallons per month)							
	BNL Well No.	115-27	115-43	RA V	105-040	105-039	105-041	096-119
Extraction Well	EW-1	EW-2		EW-9	EW-10	EW-11	EW-16	
Screen Int. elevation (ft. msl)	-90 to -130	-40 to -80		-61 to -81	-60 to -80	-60 to -80	-14 to -54	
depth (feet)	150 to 190	100 to 140	Monthly Total	130 to 150	130 to 150	130 to 150	80 to 120	Monthly Total
January	11,000	9,000	20,000	0	0	1,785	5,944	7,729
February	11,000	9,000	20,000	0	0	1,616	6,113	7,729
March	11,000	9,000	20,000	0	0	1,785	5,949	7,734
April	11,000	9,000	20,000	0	0	1,728	5,648	7,376
May	11,000	9,000	20,000	0	0	1,785	5,526	7,311
June	1,000	9,000	10,000	0	0	1,728	5,553	7,281
July	0	0	0	0	0	1,785	5,478	7,263
August	10,000	9,195	19,195	0	0	1,786	5,368	7,154
September	0	0	0	0	0	1,728	5,417	7,145
October	10,000	9,820	19,820	0	0	1,785	5,314	7,099
November	0	0	0	0	0	1,728	5,365	7,093
December	12,000	11,525	23,525	0	0	1,785	5,156	6,941
Annual Average (K gal/month)	7,351	7,057	14,408	0	0	1,753	5,566	7,321

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 standBz mode September 2000

Elevations rounded to nearest foot

Table 2-2, cont.
2011 Remediation Well Pumpage Report

2011 BNL Groundwater Status Report

Operable Unit III - Pump and Treat							
MIDDLE ROAD SYSTEM - Groundwater Withdrawal (1,000 gallons per month)							
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	6,195	993	4,591	0	0	0	11,779
February	5,091	9,174	3,710	0	0	0	17,975
March	5,523	3,260	3,404	0	0	0	12,187
April	5,815	10,016	735	0	0	0	16,566
May	6,022	11,377	4,017	0	0	1,091	22,507
June	6,175	11,160	4,622	0	0	0	21,957
July	5,956	11,005	4,467	10	0	0	21,439
August	4,626	9,578	3,795	0	0	0	17,998
September	4,248	9,249	1,799	0	0	0	15,297
October	4,839	10,923	5,999	1	1	0	21,763
November	5,118	9,192	4,244	0	0	0	18,554
December	6,013	11,493	4,806	251	0	0	22,563
Annual							
Average (K gal/month)	5,473	8,939	3,861	22	0	93	18,382

Notes:

Source: BNL Plant Engineering Division.

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

Elevations rounded to nearest foot

Table 2-2, cont.
2011 Remediation Well Pumpage Report

2011 BNL Groundwater Status Report

Operable Unit III - Pump and Treat								
SOUTH BOUNDARY SYSTEM - Groundwater Withdrawal (1,000 gallons per month)								
BNL Well No.	121-017	121-016	121-015	122-014	122-013	122-012	122-30	SOUTH BOUNDARY
Extraction Well	EW-3	EW-4	EW-5	EW-6	EW-7	EW-8	EW-12	
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	5,829	4,768	5,840	0	0	2	5	16,443
February	4,855	4,896	4,444	0	0	0	0	14,194
March	5,773	5,815	5,331	0	0	0	0	16,919
April	2,797	5,911	5,432	1	2	0	4	14,147
May	8,973	6,046	5,612	0	0	0	0	20,631
June	6,117	6,156	4,646	0	10	0	0	16,929
July	4,917	5,734	4,276	2	3	1	0	14,933
August	5,639	5,655	3,956	0	0	0	0	15,250
September	4,680	4,722	4,642	0	0	0	0	14,044
October	5,063	5,121	5,025	1	2	1	3	15,215
November	5,387	5,503	5,355	0	0	0	0	16,245
December	5,927	6,117	5,934	0	0	0	0	17,978
Annual								
Average (K gal/month)	5,510	5,542	5,046	0	1	0.32	0.99	16,077

Notes:

Source: BNL Plant Engineering Division.

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

Elevations rounded to nearest foot

Table 2-2, cont.
2011 Remediation Well Pumpage Report

2011 BNL Groundwater Status Report

Operable Unit III - Pump and Treat								
OFFSITE INDUSTRIAL PARK SYSTEM - Groundwater Withdrawal (1,000 gallons per month)								
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	0	307	1,124	1,463	1,260	1,157	0	5,311
February	0	0	2,166	2,696	2,428	2,169	503	9,962
March	0	0	2,296	2,426	2,592	2,320	6	9,640
April	0	0	1,545	1,858	2,507	2,226	5	8,141
May	0	0	1,388	0	1,618	1,335	0	4,341
June	0	0	1,622	470	978	217	4	3,291
July	0	0	321	299	801	2,921	3	4,345
August	0	0	1,678	135	2,602	3,011	6	7,432
September	0	0	794	1	2,711	3,122	6	6,634
October	0	0	1,860	161	2,684	3,124	5	7,834
November	0	0	2,358	2,804	2,507	3,029	5	10,703
December	0	0	2,218	2,869	1,993	3,106	5	10,191
Annual Average (K gal/month)	0	26	1,610	1,253	2,052	2,314	42	7,319

Notes:

Source: BNL Plant Engineering Division.

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

Elevations rounded to nearest foot

Table 2-2, cont.
2011 Remediation Well Pumpage Report

2011 BNL Groundwater Status Report

Operable Unit III - Pump and Treat					
BUILDING 96 SYSTEM - Groundwater Withdrawal and ReInjection (1,000 gallons per month)					
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	667	542	584	584	2,377
February	1,146	1,008	1,003	1,003	4,159
March	1,414	1,243	1,237	1,237	5,130
April	1,085	953	949	949	3,937
May	1,103	971	965	886	3,926
June	950	865	865	729	3,410
July	435	1,126	1,121	934	3,615
August	1,036	907	893	683	3,519
September	1,078	792	792	598	3,261
October	1,485	1,260	1,260	919	4,924
November	1,250	1,050	1,096	487	3,884
December	1,064	741	1,186	1,356	4,348
Annual					
Average (K gal/month)	1,058	3,320	1,866	2,337	3,874

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 2-2, cont.
2011 Remediation Well Pumpage Report

2011 BNL Groundwater Status Report

Operable Unit III - Pump and Treat			
WESTERN SOUTH BOUNDARY System (1,000 gallons per month)			
BNL Well No.	126-12	127-05	
Extraction Well	WSB-1	WSB-2	
Screen Int.			
elevation (ft. msl)	-60 to -80	-80 to -100	Monthly
depth (feet)	140 to 160	150 to 170	Total
January	7,105	7,741	14,846
February	6,036	740	6,776
March	7,326	0	7,326
April	6,578	7,424	14,002
May	7,910	1,043	8,953
June	7,048	0	7,048
July	6,649	7,524	14,173
August	7,388	1,354	8,742
September	6,620	0	6,620
October	6,954	6,800	13,754
November	6,548	319	6,867
December	7,316	0	7,316
Annual Average (K gal/month)	6,957	2,745	9,702

Notes:

Source: BNL Plant Engineering Division.

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

Elevations rounded to nearest foot

Table 2-2, cont.
2011 Remediation Well Pumpage Report

2011 BNL Groundwater Status Report

Operable Unit III - Pump and Treat				
Chem Holes Strontium-90 remediation System (1,000 gallons per month)				
BNL Well No. Extraction Well Screen Int. elevation (ft. msl) depth (feet)	106-92 SR-90 EW-1 +40.5 to +25.5 23.5 to 38.5	SR-90 EW-2	SR-90 EW-3	Monthly Total
January	222	222	223	667
February	16	215	215	446
March	266	267	268	801
April	17	193	193	403
May	257	274	275	806
June	34	259	257	550
July	209	218	216	643
August	41	257	255	553
September	210	69	181	460
October	11	396	0	407
November	200	380	188	768
December	19	387	10	416
Annual Average (K gal/month)	126	263	190	577

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 2-2, cont.
2011 Remediation Well Pumpage Report

2011 BNL Groundwater Status Report

Operable Unit III - Pump and Treat					
LIPA SYSTEM - Groundwater Withdrawal (1,000 gallons per month)					
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	0	1	0	4,979	4,980
February	0	0	0	3,528	3,528
March	0	0	0	5,183	5,183
April	2	3	1	3,233	3,239
May	0	3	0	4,431	4,434
June	0	0	0	1,249	1,249
July	0	0	0	3,890	3,890
August	1	1	1	3,468	3,471
September	3	4	3	1,610	1,620
October	4	1	1	3,187	3,193
November	1	1	1	4,161	4,164
December	0.56	0	0.98	5,684	5,686
Annual Average (K gal/month)*	1	1	1	3,731	3,720

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 2-2, cont.
2011 Remediation Well Pumpage Report

2011 BNL Groundwater Status Report

Operable Unit III - Pump and Treat							
AIRPORT SYSTEM - Groundwater Withdrawal (1,000 gallons per month)							
BNL Well No.	800-109	800-110	800-111	800-112	800-113	800-132	Airport
Extraction Well	RTW-1A	RTW-2A	RTW-3A	RTW-4A	RTW-5A	RTW-6A	
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	165 to 185	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	2440	385	585	460	613.21	3,660.00	8,143
February	2040	340	1801	0	1796	3,060.00	9,037
March	2440	265	469	0	788	3,660.00	7,622
April	2320	321	698	0	695	3,480.00	7,515
May	2080	362	810	1270	1818	3,120.00	9,460
June	1680	346	2154	5566	1204	2,520.00	13,471
July	1560	243	344	4202	361	2,340.00	9,050
August	1640	367	725	5509	750	2,460.00	11,452
September	2080	318	790	7280	740	3,120.00	14,329
October	1920	283	1575	7284	1448	2,880.00	15,390
November	1640	127	830	5079	770	2,460.00	10,905
December	1720	278	883	6300	881	2,580.00	12,642
Annual Average (K gal/month)*	1,963	303	964	3,599	984	2,945	10,751

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 2-2, cont.
 2011 Remediation Well Pumpage Report

2011BNL Groundwater Status Report

Operable Unit III - Pump and Treat			
INDUSTRIAL PARK EAST- Groundwater Withdrawal (1,000 gallons per month)			
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	0.00	0.00	0
February	0.00	0.00	0
March	0.00	0.00	0
April	0.00	0.00	0
May	0.00	0.00	0
June	0.00	0.00	0
July	0.00	0.00	0
August	0.00	0.00	0
September	0.00	0.00	0
October	0.00	0.00	0
November	0.00	0.00	0
December	0.00	0.00	0
Annual Average (K gal/month)	0	0	0

Notes:

Source: BNL Plant Engineering Division.

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

Elevations rounded to nearest foot

Table 2-2, cont.
2011 Remediation Well Pumpage Report

2011 BNL Groundwater Status Report

Operable Unit III - Pump and Treat			
NORTH STREET - Groundwater Withdrawal (1,000 gallons per month)			
BNL Well No.	000-471	000-473	NORTH STREET
Extraction Well	NS-1	NS-2	
Screen Int.			
elevation (ft. msl)	-64 to -104	-96 to -126	Monthly
depth (feet)	165 to 205	190 to 220	Total
January	8552	8574	17,126
February	8113	8029	16,142
March	3781	8213	11,994
April	145	750	895
May	2355	6541	8,896
June	6164	4766	10,930
July	537	9878	10,415
August	7126	8386	15,512
September	576	9480	10,056
October	6984	5186	12,170
November	280	9420	9,700
December	8524	7623	16,147
Annual Average (K gal/month)	4,427	7,243	11,665

Notes:

Source: BNL Plant Engineering Division.

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

Elevations rounded to nearest foot

Table 2-2, cont.
2011 Remediation Well Pumpage Report

2011 BNL Groundwater Status Report

Operable Unit III - Pump and Treat			
NORTH STREET EAST- Groundwater Withdrawal (1,000 gallons per month)			
BNL Well No.	000-487	000-488	NORTH
Extraction Well	NSE-1	NSE-2	STREET
Screen Int.			EAST
elevation (ft. msl)	-71 to -101	-71 to -101	Monthly
depth (feet)	161 to 191	152 to 182	Total
January	797	4	801
February	8346	0	8,346
March	14	9	23
April	8321	2	8,323
May	4814	122	4,936
June	7656	0	7,656
July	8335	4	8,339
August	8165	146	8,311
September	6345	0	6,345
October	49	4	53
November	6081	4	6,085
December	8905	0	8,905
Annual Average (K gal/month)	5,614	25	5,347

Notes:

Source: BNL Plant Engineering Division.

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

Elevations rounded to nearest foot

Table 2-2, cont.
2011 Remediation Well Pumpage Report

2011 BNL Groundwater Status Report

Operable Unit III - Pump and Treat										
BGRR/WCF Strontium-90 - Groundwater Withdrawal (1,000 gallons per month)										
BNL Well No.	065-368	065-369	075-676	075-677	075-678					BGRR
Extraction Well	SR-1	SR-2	SR-3	SR-4	SR-5	SR-6	SR-7	SR-8	SR-9	
Screen Int.										
elevation (ft. msl)	51.5-31.5	51.5-31.5	50-30	46-6	46-6					Monthly
depth (feet)	33-53	33.5-53.5	51-71	35-75	35-75					Total
January	178.84	0	197.09	0	174.31	0	0	0	0	550
February	22.67	0	27.73	100.06	20.77	0	0	0	0	171
March	98.83	184.95	0.28	164.14	132.09	173.9	0	0	0	580
April	0	0	29.81	0	0	49.15	159.7	115.89	151.42	30
May	21.55	25.78	32.54	0.1	0.36	390	44.24	48.15	47.64	80
June	99.09	187.26	0	0	0	261	405.2	380.5	388.5	286
July	262.51	121.24	0	0	0	350	262.87	261.8	261.35	384
August	1.58	192.57	0	0	0	0	376.41	331.25	350	194
September	0	59.54	0	0	0	0	135.59	124.53	0	60
October	130.54	88.58	119.6	14.2	115.11	311.96	309.7	265.42	222.61	468
November	11.12	31.41	180.09	155.55	140.55	239.03	251.45	291.24	249.92	519
December	0.06	162.32	97.09	33.46	9.09	179.45	291.76	158.14	283.33	302
Annual Average (K gal/month)	70	89	57	38	50	164	187	165	164	302

Notes:

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

Elevations rounded to nearest foot

Table 2-2, cont.
 2011 Remediation Well Pumpage Report

2011 BNL Groundwater Status Report

Operable Unit VI - Pump and Treat			
EDB SYSTEM- Groundwater Withdrawal (1,000 gallons per month)			
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	8194	7305	15,499
February	7371	6632	14,003
March	8380	2117	10,497
April	8106	5255	13,361
May	8844	7186	16,030
June	6566	8022	14,588
July	6639	8342	14,981
August	6161	7105	13,266
September	6935	7423	14,358
October	6876	8007	14,883
November	6520	7718	14,238
December	5455	2663	8,118
Annual Average (K gal/month)	7,170	6,473	13,652

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