

**Table 3.2.15-1
OUIII BGRR
Strontium-90 Results from Geoprobe Samples**

2018 BNL Groundwater Status Report

Geoprobe ID:	BGRR-GP-80	BGRR-GP-81	BGRR-GP-71	BGRR-GP-72	BGRR-GP-153	BGRR-GP-154	BGRR-GP-155	BGRR-GP-156	
Sample Date:	01/15-16/2019	01/17-18/2019	01/22-23/2019	01/24-25/2019	1/28- 02/25/2019	02/26-27/2019	3/5/2019	3/11-12/2019	
Sample Interval (bls)	Analysis:								
36-40	Strontium-90								
40-44	Strontium-90								
44-48	Strontium-90								
48-52	Strontium-90								
52-56	Strontium-90								
56-60	Strontium-90								
60-64	Strontium-90								
64-68	Strontium-90								
68-72	Strontium-90	<MDA	6.4	4.96	1.3				
72-76	Strontium-90	<MDA	<MDA	0.927	<MDA				
76-80	Strontium-90	<MDA	<MDA	<MDA	<MDA				
80-84	Strontium-90	<MDA	<MDA	<MDA	<MDA	4.99	25.6	<MDA	
84-88	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	12.3	6.84	9.37
88-92	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	6.64	5.68	<MDA
92-96	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	5.11	<MDA	<MDA
96-100	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
100-104	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
104-108	Strontium-90	<MDA	<MDA	<MDA	1.26	<MDA	<MDA	<MDA	<MDA
108-112	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
112-116	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
116-120	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
120-124	Strontium-90								
124-128	Strontium-90								
128-132	Strontium-90								
132-136	Strontium-90								
136-140	Strontium-90								
140-144	Strontium-90								
144-148	Strontium-90								

Units in pCi/L

bls = below land surface

< MDA = Analyte was analyzed for, but not detected above the minimum detectable activity (varies by sample but is typically between 0.5 and 0.8 pCi/L)

Shaded value is above the drinking water standard of 8 pCi/L.

**Table 3.2.15-1
OUIII BGRR
Strontium-90 Results from Geoprobe Samples**

2018 BNL Groundwater Status Report

Geoprobe ID:	BGRR-GP-74	BGRR-GP-75	BGRR-GP-76	BGRR-GP-77	BGRR-GP-78	BGRR-GP-84	BGRR-GP-85	BGRR-GP-86	
Sample Date:	5/30/2018	5/31/2018	06-01-02/2018	6/4/2018	06/05-06/2018	6/7/2018	06/08-09/2018	6/11/2018	
Sample Interval (bls)	Analysis:								
36-40	Strontium-90								
40-44	Strontium-90								
44-48	Strontium-90								
48-52	Strontium-90								
52-56	Strontium-90								
56-60	Strontium-90								
60-64	<MDA		<MDA	<MDA	<MDA	1.12	<MDA		
64-68	<MDA	<MDA	5.25	2.2	3.05	3.4	2.18	<MDA	
68-72	<MDA	<MDA	5.94	17.9	6.79	18.1	24.9	1.33	
72-76	<MDA	<MDA	5.4	33	9.58	27.7	75.2	4.25	
76-80	<MDA	<MDA	2.07	26.2	8.79	41.2	71.4	10.5	
80-84	2.85	1.34	<MDA	10.3	3.44	40.8	73.1	9.7	
84-88	3.8	3.37	1.75	7.16	2.56	47.6	65.5	9.84	
88-92	3.07	2.83	<MDA	5.12	1.33	53	17.6	4.44	
92-96	1.69	7.06	0.722	2.14	1.12	42.1	10.7	<MDA	
96-100	1.98	11	1.35	<MDA	<MDA	11.4	8.67	<MDA	
100-104	1.72	5.84	<MDA	<MDA	<MDA	5.26	2.89	1.15	
104-108	<MDA	<MDA	<MDA	<MDA	<MDA	1.39	1.09	<MDA	
108-112	<MDA	<MDA	<MDA	<MDA	<MDA	1.2	<MDA	<MDA	
112-116	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	
116-120	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	
120-124	Strontium-90								
124-128	Strontium-90								
128-132	Strontium-90								
132-136	Strontium-90								
136-140	Strontium-90								
140-144	Strontium-90								
144-148	Strontium-90								

Units in pCi/L

bls = below land surface

< MDA = Analyte was analyzed for, but n

Shaded value is above the drinking water

**Table 3.2.15-1
OUIII BGRR
Strontium-90 Results from Geoprobe Samples**

2018 BNL Groundwater Status Report

Geoprobe ID:	BGRR-GP-87	BGRR-GP-88	BGRR-GP-133	BGRR-GP-91	BGRR-GP-107	BGRR-GP-134	BGRR-GP-135
Sample Date:	06/12-14/2018	6/15/2018	06/18-19/2018	06/19-20/2018	06/21-22/2018	06/25-26/2018	06/27-28/2018
Sample Interval (bls)	Analysis:						
36-40	Strontium-90						
40-44	Strontium-90						
44-48	Strontium-90						
48-52	Strontium-90						
52-56	Strontium-90						
56-60	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
60-64	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
64-68	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
68-72	4.52	<MDA	<MDA	1.97	<MDA	<MDA	<MDA
72-76	22.4	2.76	<MDA	9.22	<MDA	<MDA	0.711
76-80	31.6	8.85	5.64	5.23	<MDA	3.73	5.09
80-84	39.5	25.9	15.6	24.6	2.01	8.78	8.05
84-88	38.2	51.1	20.5	38.7	1.46	34.1	20.6
88-92	12.9	54.6	18.4	32.8	8.03	26.4	23.8
92-96	10.3	58.1	15.9	21.2	9.76	13.4	20.2
96-100	8.92	38.1	7.32	25.1	29.7	7.42	12.2
100-104	1.09	7.66	18.4	15.8	25.5	<MDA	7.37
104-108	0.811	<MDA	9.1	18	28.7	<MDA	2.15
108-112	0.947	<MDA	2.57	11.5	14.6	<MDA	<MDA
112-116	<MDA	<MDA	<MDA	2.96	11.6	<MDA	<MDA
116-120	<MDA	<MDA	<MDA	<MDA	7.53	<MDA	<MDA
120-124	Strontium-90						
124-128	Strontium-90						
128-132	Strontium-90						
132-136	Strontium-90						
136-140	Strontium-90						
140-144	Strontium-90						
144-148	Strontium-90						

Units in pCi/L

bls = below land surface

< MDA = Analyte was analyzed for, but n

Shaded value is above the drinking water

**Table 3.2.15-1
OUIII BGRR
Strontium-90 Results from Geoprobe Samples**

2018 BNL Groundwater Status Report

Sample Interval (bls)	Geoprobe ID:	BGRR-GP-39	BGRR-GP-137	BGRR-GP-138	BGRR-GP-139
	Sample Date:	06/29-30/2018	07/02-03/2018	07/09-10/2018	07/12-13/2018
	Analysis:				
36-40	Strontium-90	<MDA			
40-44	Strontium-90	<MDA			
44-48	Strontium-90	<MDA			
48-52	Strontium-90	<MDA			
52-56	Strontium-90	<MDA			
56-60	Strontium-90	<MDA			
60-64	Strontium-90	<MDA	1.98	5.64	<MDA
64-68	Strontium-90	<MDA	<MDA	2.64	<MDA
68-72	Strontium-90	<MDA	1.27	7.2	<MDA
72-76	Strontium-90	<MDA	2.43	10.6	<MDA
76-80	Strontium-90	<MDA	2.57	7.75	<MDA
80-84	Strontium-90	<MDA	1.95	10.7	<MDA
84-88	Strontium-90	<MDA	4.75	8.94	<MDA
88-92	Strontium-90	<MDA	2.26	17.2	<MDA
92-96	Strontium-90	<MDA	3.44	24.4	<MDA
96-100	Strontium-90	<MDA	2.82	38.1	7.31
100-104	Strontium-90	<MDA	<MDA	55.1	24.3
104-108	Strontium-90	<MDA	2.22	35.7	69.9
108-112	Strontium-90	<MDA	<MDA	17.8	177
112-116	Strontium-90	<MDA	2.66	34.5	208
116-120	Strontium-90	1.56	1.49	6.96	39.9
120-124	Strontium-90	8.44	6.03	5.01	23.4
124-128	Strontium-90	2.31	11.5	0.974	2.52
128-132	Strontium-90	1.68	32.6	<MDA	<MDA
132-136	Strontium-90				
136-140	Strontium-90				
140-144	Strontium-90				
144-148	Strontium-90				

Units in pCi/L

bls = below land surface

< MDA = Analyte was analyzed for, but n

Shaded value is above the drinking water

**Table 3.2.15-1
OUIII BGRR
Strontium-90 Results from Geoprobe Samples**

2018 BNL Groundwater Status Report

Geoprobe ID:	BGRR-GP-140	BGRR-GP-141	BGRR-GP-142	BGRR-GP-143	BGRR-GP-144	BGRR-GP-145	BGRR-GP-146	BGRR-GP-147	
Sample Date:	07/17-18/2018	07/19-20/2018	07/20-23/2018	07/25-26/2018	07/27-28/2018	07/30-31/2018	08/07-08/2018	08/09-10/2018	
Sample Interval (bls)	Analysis:								
36-40	Strontium-90								
40-44	Strontium-90								
44-48	Strontium-90								
48-52	Strontium-90								
52-56	Strontium-90								
56-60	Strontium-90								
60-64	3.83	2.18	6.42	2.17	<MDA	<MDA	0.792	<MDA	
64-68	29.4	47.4	32.7	<MDA	<MDA	<MDA	0.574	<MDA	
68-72	47.1	78.5	35.5	1.07	<MDA	<MDA	<MDA	<MDA	
72-76	17.3	76	44	3.6	1.27	<MDA	<MDA	<MDA	
76-80	5.72	20.6	61.1	7.58	2.4	<MDA	3.38	0.93	
80-84	2.4	5.38	72	21.4	3.87	2.26	17.7	<MDA	
84-88	<MDA	<MDA	59.4	53.8	24.5	1.99	10.2	<MDA	
88-92	<MDA	<MDA	31.5	58	48.6	2.55	16.5	1.12	
92-96	<MDA	<MDA	20.6	35.7	46	3.68	12.8	2.82	
96-100	<MDA	<MDA	2.67	8.48	6.42	8.57	6.14	2.99	
100-104	<MDA	<MDA	<MDA	14.9	9.39	7.53	2.66	1.58	
104-108	<MDA	<MDA	<MDA	<MDA	1.17	9.33	<MDA	<MDA	
108-112	<MDA	<MDA	<MDA	<MDA	1.25	13.9	<MDA	<MDA	
112-116	<MDA	<MDA	<MDA	<MDA	<MDA	6.22	<MDA	<MDA	
116-120	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	
120-124	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	
124-128	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	1.57	
128-132	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	
132-136	Strontium-90								
136-140	Strontium-90								
140-144	Strontium-90								
144-148	Strontium-90								

Units in pCi/L

bls = below land surface

< MDA = Analyte was analyzed for, but n

Shaded value is above the drinking water

**Table 3.2.15-1
OUIII BGRR
Strontium-90 Results from Geoprobe Samples**

2018 BNL Groundwater Status Report

Sample Interval (bls)	Geoprobe ID:	BGRR-GP-41	BGRR-GP-40	BGRR-GP-42	BGRR-GP-148
	Sample Date:	1/2/2019	12/14-17/2018	01/03-04/2019	01/08-09/2019
	Analysis:				
36-40	Strontium-90				
40-44	Strontium-90				
44-48	Strontium-90				
48-52	Strontium-90				
52-56	Strontium-90				
56-60	Strontium-90				
60-64	Strontium-90				
64-68	Strontium-90				
68-72	Strontium-90				
72-76	Strontium-90	<MDA	<MDA	<MDA	<MDA
76-80	Strontium-90	<MDA	<MDA	<MDA	<MDA
80-84	Strontium-90	<MDA	<MDA	<MDA	<MDA
84-88	Strontium-90	<MDA	<MDA	<MDA	<MDA
88-92	Strontium-90	<MDA	<MDA	<MDA	<MDA
92-96	Strontium-90				
96-100	Strontium-90	1.21	<MDA	<MDA	<MDA
100-104	Strontium-90	<MDA	<MDA	<MDA	<MDA
104-108	Strontium-90	<MDA	<MDA	<MDA	<MDA
108-112	Strontium-90	1.76	1.99	<MDA	<MDA
112-116	Strontium-90				
116-120	Strontium-90	2.06	2.14	<MDA	<MDA
120-124	Strontium-90	1.61	4.09	<MDA	<MDA
124-128	Strontium-90	1.13	5.83	2.28	<MDA
128-132	Strontium-90	<MDA	<MDA	3.39	<MDA
132-136	Strontium-90				
136-140	Strontium-90	<MDA	4.98	4.67	<MDA
140-144	Strontium-90	<MDA	7.15	<MDA	<MDA
144-148	Strontium-90	<MDA	1.16	2.62	<MDA

Units in pCi/L

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Shaded value is above the drinking water

Table 3.2.15-1
OUIII BGRR
Strontium-90 Results from Geoprobe Samples

2018 BNL Groundwater Status Report

Sample Interval (bls)	Geoprobe ID:	BGRR-GP-149	BGRR-GP-150	BGRR-GP-151
	Sample Date:	12/11-12/2018	12/14-15/2018	12/17-18/2018
	Analysis:			
36-40	Strontium-90			
40-44	Strontium-90			
44-48	Strontium-90			
48-52	Strontium-90			
52-56	Strontium-90			
56-60	Strontium-90			
60-64	Strontium-90			
64-68	Strontium-90			
68-72	Strontium-90			
72-76	Strontium-90	<MDA	<MDA	<MDA
76-80	Strontium-90	<MDA	<MDA	<MDA
80-84	Strontium-90	<MDA	<MDA	<MDA
84-88	Strontium-90	<MDA	0.86	<MDA
88-92	Strontium-90	<MDA	<MDA	<MDA
92-96	Strontium-90			
96-100	Strontium-90	<MDA	<MDA	<MDA
100-104	Strontium-90	1.02	1.83	6.09
104-108	Strontium-90	3.4	1.29	17.5
108-112	Strontium-90	8.83	11.6	10.4
112-116	Strontium-90			
116-120	Strontium-90	47.7	6.03	14.2
120-124	Strontium-90	<MDA	8.03	22.5
124-128	Strontium-90	13.4	11	14.3
128-132	Strontium-90	<MDA	<MDA	<MDA
132-136	Strontium-90			
136-140	Strontium-90	<MDA	13.2	<MDA
140-144	Strontium-90	<MDA	0.88	<MDA
144-148	Strontium-90	<MDA	2.28	<MDA

Units in pCi/L

bls = below land surface

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Shaded value is above the drinking water