

Table 3.1-1
OU I South Boundary
Summary of Strontium-90 Results From Vertical Profile Wells,
April through October 2018

2018 BNL Groundwater Status Report

Geoprobe ID:	OU1-SR-90- GP-65	OU1-SR-90- GP-66	OU1-SR-90- GP-67	OU1-SR-90- GP-68	OU1-SR-90- GP-69	OU1-SR-90- GP-70	OU1-SR-90- GP-71	OU1-SR-90- GP-72	OU1-SR-90- GP-73	OU1-SR-90- GP-74	OU1-SR-90- GP-77	
Sample Date:	4/24/2018	4/25/2018	4/26/2018	4/27/2018	4/28/2018	4/30/2018	5/1/2018	5/2/2018	5/4/2018	5/7/2018	5/8/2018	
Sample Interval (bls) Analysis:												
16'-20'												
20'-24'												
24'-28'	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	1.31	0.901	<MDA	2.52	<MDA
28'-32'	Strontium-90	<MDA	<MDA	0.852	<MDA	<MDA	<MDA	6.04	1.47	1.98	2.41	3.16
32'-36'	Strontium-90	<MDA	1.19	<MDA	1.53	2.64	2.6	72.5	3.52	4.84	2.88	<MDA
36'-40'	Strontium-90	<MDA	1.82	6.74	3.18	3.76	11.1	58.6	9.52	11.5	8.05	<MDA
40'-44'	Strontium-90	<MDA	1.3	3.8	2.07	2.14	9	46.8	13.2	12.1	13	1.65
44'-48'	Strontium-90	<MDA	2.36	1.38	1.65	<MDA	4.61	6.51	6.11	10.3	7.63	7.11
48'-52'	Strontium-90	<MDA	1.47	<MDA	1.55	2	1.28	1.14	2.93	4.7	3.84	2.78
52'-56'	Strontium-90	<MDA	1.6	3.85	2.13	1.33	1.12	<MDA	1.54	2.19	3.16	<MDA
56'-60'	Strontium-90	1.14	<MDA	2.51	2.09	<MDA	1.09	<MDA	1.32	<MDA	0.963	<MDA
60'-64'	Strontium-90	<MDA	<MDA	1.54	2.07	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
64'-68'	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
68'-72'	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
72'-76'	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
76'-80'	Strontium-90	<MDA	<MDA	<MDA	<MDA	0.836	1.3	<MDA	<MDA	1.13	<MDA	<MDA
80'-84'	Strontium-90											
84'-88'	Strontium-90											
88'-92'	Strontium-90											
92'-96'	Strontium-90											
96'-100'	Strontium-90											
100'-104'	Strontium-90											
104'-108'	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 3.1-1
OU I South Boundary
Summary of Strontium-90 Results From Vertical Profile Wells,
April through October 2018**

2018 BNL Groundwater Status Report

Geoprobe ID:	OU1-SR-90- GP-88	OU1-SR-90- GP-89	OU1-SR-90- GP-90	OU1-SR-90- GP-91	OU1-SR-90- GP-92	OU1-SR-90- GP-93	OU1-SR-90- GP-94	OU1-SR-90- GP-95	OU1-SR-90- GP-96	
Sample Date:	5/5/2018	5/10/2018	5/9/2018	9/27/2018	10/2/2018	10/4/2018	10/9/2018	10/11/2018	10/16/2018	
Sample Interval (bls)	Analysis:									
16'-20'										
20'-24'										
24'-28'	Strontium-90									
28'-32'	Strontium-90	<MDA	<MDA	3.6			<MDA			
32'-36'	Strontium-90	<MDA	0.724 J	<MDA	<MDA					
36'-40'	Strontium-90	0.886	0.908	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
40'-44'	Strontium-90	1.39	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
44'-48'	Strontium-90	<MDA	1.52	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
48'-52'	Strontium-90	3.86	2.82	<MDA		<MDA	<MDA	<MDA	<MDA	<MDA
52'-56'	Strontium-90	2.95	5.71	3.57	<MDA					
56'-60'	Strontium-90	1.78	1.64	3.15	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
60'-64'	Strontium-90	2.13	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
64'-68'	Strontium-90	1.53	2.67	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
68'-72'	Strontium-90	1.93	2.46	<MDA		1.4	6.88	3.38	<MDA	<MDA
72'-76'	Strontium-90	1.23	2.22	<MDA	<MDA					
76'-80'	Strontium-90	1.63	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
80'-84'	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
84'-88'	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA
88'-92'	Strontium-90	<MDA	<MDA	<MDA						
92'-96'	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	4.7	<MDA
96'-100'	Strontium-90	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	<MDA	6.61	<MDA
100'-104'	Strontium-90				<MDA	<MDA	<MDA	<MDA	1.88	<MDA
104'-108'	Strontium-90				<MDA	<MDA	<MDA	<MDA	2.96	<MDA

Units in pCi/L

bls = below land surface

< MDA = Analyte was analyzed

Shaded value is above the drin