

LIST OF TABLES AND FIGURES

Figure 2-1	Groundwater Flow Map	2-3
Figure 2-2	Annual Wind Rose (2005).....	2-4
Figure 3-1	Primary Exposure Pathways to Humans	3-2
Figure 3-2	Potential Air Emission Release Points Subject to Monitoring	3-3
Table 3-1	Airborne Radionuclide Releases from Monitored Facilities	3-4
Figure 3-3	BNL Outfall Map	3-9
Figure 4-1	Data Quality Flowchart	4-4
Table 7-1.1	Ambient Background TLD Locations at BNL	7.1-6
Table 7-1.2	AGS TLD Locations.....	7.1-6
Table 7-1.3	RHIC TLD Locations	7.1-7
Table 7-1.4	Dose Rate at Former Hazardous Waste Management Facility	7.1-7
Figure 7-1.1	BNL Grid Map	7.1-11
Figure 7-1.2	On-site TLD Locations.....	7.1-12
Figure 7-1.3	Off-site TLD Locations	7.1-13
Figure 10-1	Peconic River Sampling Stations.....	10.1-7
Table 12-1.1	ER Monitoring Schedule	12.1-1
Table 12-1.2	ER Sampling Information for CY2006	12.1a-1
Table 12-2.1	Decisions, Potential Decision Errors, and Potential Consequences	12.2-4
Table 12-2.2	Proposed Modifications to the Chemical/Animal Holes Monitoring Wells.....	12.2-5
Figure 12-2.1	Chemical/Animal Hoels Strontium-90 Well Locations.....	12.2-7
Table 12-3.1	Former Landfill Area Well Network	12.3-1
Table 12-3.2	Factors Affecting the Period for Decisions for the Former Landfill	12.3-3
Table 12-3.3	Decisions, Potential Decision Errors, and Potential Consequences	12.3-4
Figure 12-3.1	Former Landfill Post-Closure Monitoring Well Locations	12.3-7
Table 12-4.1	Factors Affecting the Period for Decisions for the Current Landfill.....	12.4-2
Table 12-4.2	Decisions, Potential Decision Errors, and Potential Consequences	12.4-3
Table 12-4.3	Proposed Modifications to the Current Landfill Monitoring Wells	12.4-4
Figure 12-4.1	Current Landfill Post-Closure Monitoring Well Locations.....	12.4-5
Table 12-5.1	Decisions, Potential Decision Errors, and Potential Consequences	12.5-6
Table 12-5.2	Proposed Modifications to the South Boundary Monitoring Wells	12.5-6
Figure 12-5.1	South Boundary (RA V) Pump and Treat System Monitoring Well Locations	12.5-9
Table 12-6.1	Decisions, Potential Decision Errors, and Potential Consequences	12.6-6
Table 12-6.2	Proposed Modifications to the OU I/IV North Street Monitoring Wells	12.6-7
Figure 12-6.1	North Street Pre-Design Monitoring Well Locations.....	12.6-9
Table 12-7.1	Decisions, Potential Decision Errors, and Potential Consequences	12.7-6
Table 12-7.2	Proposed Modifications to the HFBR Monitoriong Wells	12.7-6
Figure 12-7.1	HFBR AOC 29 Tritium Monitoring Well Locations	12.7-11

Table 12-8.1	Decisions, Potential Decision Errors, and Potential Consequences	12.8-4
Figure 12-8.1	BGRR/WCF Strontium-90 Post-ROD Monitoring Well Locations.....	12.8-5
Table 12-9.1	Decisions, Potential Decision Errors, and Potential Consequences	12.9-7
Table 12-9.2	Proposed Modifications to the Carbon Tetrachloride Source Control Wells	12.9-8
Figure 12-9.1	Carbon Tetrachloride Montoring Well Locations	12.9-9
Table 12-10.1	Decisions, Potential Decision Errors, and Potential Consequences	12.10-4
Table 12-10.2	Proposed Modifications to the Central Sampling Program Monitoring Wells	12.10-4
Figure 12-10.1	Central Post-ROD Monitoring Well Locations.....	12.10-7
Table 12-11.1	Decisions, Potential Decision Errors, and Potential Consequences	12.11-6
Table 12-11.2	Proposed Modifications to the Building 96 Project Monitoring Wells	12.11-7
Figure 12-11.1	Building 96 Area Monitoring Well Locations	12.11-9
Table 12-12.1	Decisions, Potential Decision Errors, and Potential Consequences	12.12-6
Table 12-12.2	Proposed Modifications to the South Boundary Monitoring Wells	12.12-7
Figure 12-12.1	South Boundary Pump and Treat System Monitoring Well Locations.....	12.12-9
Table 12-13.1	Decisions, Potential Decision Errors, and Potential Consequences	12.13-2
Table 12-13.2	Proposed Modifications to the South Boundary Radionuclide Monitoring Wells...	12.13-3
Figure 12-13.1	South Boundary Radionuclide Monitoring Well Locations.....	12.13-5
Table 12-14.1	Decisions, Potential Decision Errors, and Potential Consequences	12.14-5
Table 12-14.2	Proposed Modifications to the Middle Road Project Monitoring Wells	12.14-7
Figure 12-14.1	Middle Road Pump and Treat System Monitoring Well Locations	12.14-9
Table 12-15.1	Decisions, Potential Decision Errors, and Potential Consequences	12.15-6
Table 12-15.2	Proposed Modifications to the Western South Boundary Monitoring Wells.....	12.15-7
Figure 12-15.1	Western South Boundary Pump and Treat System Monitoring Well Locations.....	12.15-9
Table 12-16.1	Current OU III Off-Site Wells	12.16-2
Table 12-16.2	Decisions, Potential Decision Errors, and Potential Consequences	12.16-4
Table 12-16.3	Proposed Modifications to the OU III Off-Site Monitoring Wells	12.16-4
Figure 12-16.1	Off-Site Post-ROD Monitoring Well Locations	12.16-7
Table 12-17.1	Decisions, Potential Decision Errors, and Potential Consequences	12.17-6
Table 12-17.2	Proposed Modifications to the OU III Industrial Park Project Monitoring Wells....	12.17-8
Figure 12-17.1	Industrial Park Monitoring Well Locations.....	12.17-9
Table 12-18.1	Decisions, Potential Decision Errors, and Potential Consequences	12.18-3
Table 12-18.2	Proposed Modifications to the AOC 5 AS/SVE Project Monitoring Wells.....	12.18-4
Figure 12-18.1	AOC 5 Monitoring Well Locations.....	12.18-5
Table 12-19.1	Decisions, Potential Decision Errors, and Potential Consequences	12.19-3
Table 12-19.2	Proposed Modifications to the AOC 6 Project Monitoring Wells	12.19-4
Figure 12-19.1	AOC 6 Monitoring Well Locations.....	12.19-7
Table 12-20.1	Decisions, Potential Decision Errors, and Potential Consequences	12.20-4
Table 12-20.2	Proposed Modifications to the OU V Monitoring Wells.....	12.20-5

Figure 12-20.1 OU V Sewage Treatment Plant TVOC Plume Distribution	12.20-7
Table 12-21.1 Decisions, Potential Decision Errors, and Potential Consequences	12.21-3
Table 12-21.2 Proposed Modifications to the Ethylene Dibromide Pre-Design Monitoring Wells	12.21-7
Figure 12-21.1 Ethylene Dibromide Monitoring Well Locations.....	12.21-9
Table 12-22.1 Decisions, Potential Decision Errors, and Potential Consequences	12.22-3
Table 12-22.2 Proposed Modifications to the Site Background Sampling Program	12.22-4
Figure 12-22.1 Site Background Monitoring Well Locations.....	12.22-5
Table 12-23.1 Decisions, Potential Decision Errors, and Potential Consequences	12.23-4
Table 12-24.1 ES Surveillance Facility Groundwater Monitoring Schedule CY2006.....	12.24-1
Table 12-24.2 ES Facility Groundwater Monitoring Program Analytical Breakdown CY2006...	12.24a-1
Table 12-25.1 Decisions, Potential Decision Errors, and Potential Consequences	12.25-4
Table 12-25.2 Comparison of CY 2002 and CY 2003 Monitoring Programs	12.25-7
Figure 12-25.1 AGS and BLIP Facility Area Monitoring Well Locations	12.25-9
Figure 12-25.2 g-2 Monitoring Well and Geoprobe Tritium Results-Fourth Quarter 2001	12.25-10
Table 12-26.1 Decisions, Potential Decision Errors, and Potential Consequences	12.26-4
Table 12-26.2 Comparison of CY 2002 and CY 2003 Monitoring Programs	12.26-5
Figure 12-26.1 BLIP Facility Area Monitoring Well Locations.....	12.26-7
Table 12-27.1 Decisions, Potential Decision Errors, and Potential Consequences	12.27-3
Table 12-27.2 Comparison of CY2005 and CY2006 Sampling Programs.....	12.27-5
Figure 12-27.1 RHIC Facility Area Monitoring Well Locations.....	12.27-7
Table 12-28.1 Decisions, Potential Decision Errors, and Potential Consequences	12.28-5
Table 12-28.2 Comparison of CY 2002 and CY 2003 Sampling Programs.....	12.28-6
Figure 12-28.1 Waste Management Facility Monitoring Well Locations	12.28-7
Table 12-29.1 Decisions, Potential Decision Errors, and Potential Consequences	12.29-4
Table 12-29.2 Comparison of CY 2002 and CY 2003 Sampling Programs.....	12.29-5
Figure 12-29.1 Medical Research Reactor Area Monitoring Well Locations.....	12.29-7
Table 12-30.1 Decisions, Potential Decision Errors, and Potential Consequences	12.30-4
Table 12-30.2 Comparison of CY 2002 and CY 2003 Sampling Programs.....	12.30-5
Figure 12-30.1 Sewage Treatment Plant Area Monitoring Well Locations.....	12.30-7
Table 12-31.1 Decisions, Potential Decision Errors, and Potential Consequences	12.31-3
Table 12-31.2 Comparison of CY2005 and CY2006 Sampling Programs.....	12.31-4
Figure 12-31.1 Shotgun Range Area Monitoring Well Locations	12.25-5
Figure 12-31.2 Live Fire-Range AreaMonitoring Well Locations	12.31-6
Table 12-32.1 Decisions, Potential Decision Errors, and Potential Consequences	12.32-4
Table 12-32.2 Comparison of CY2005 and CY2006 Sampling Programs.....	12.32-5
Figure 12-32.1 Motor Pool Area Monitoring Well Locations	12.32-7
Table 12-33.1 Decisions, Potential Decision Errors, and Potential Consequences	12.33-3

Table 12-33.2 Comparison of CY2005 and CY2006 Sampling Programs - Upton Station	12.33-5
Figure 12-33.1 Upton Service Station Area Monitoring Well Locations	12.33-7
Table 12-34.1 Decisions, Potential Decision Errors, and Potential Consequences	12.34-4
Table 12-34.2 Comparison of CY2005 and CY2006 Sampling Programs - MPF Area.....	12.34-5
Figure 12-34.1 Major Petroleum Facility Area Monitoring Well Locations.....	12.34.7
Table 12-35.1 Decisions, Potential Decision Errors, and Potential Consequences	12.35-3
Table 12-35.2 Comparison of CY2005 and CY2006 Sampling Programs.....	12.35-4
Figure 12-35.1 Biology Department Greenhouse Area Monitoring Well Locations.....	12.35-5
Table 12-36.1 Decisions, Potential Decision Errors, and Potential Consequences	12.36-3
Table 12-36.2 Comparison of CY2005 and CY2006 Sampling Programs.....	12.36-4
Figure 12-36.1 Building 801 Location.....	12.36-5
Table 12-37.1 Decisions, Potential Decision Errors, and Potential Consequences	12.37-6
Figure 12-37.1 OU III Airport Monitoring Well Locations.....	12.37-7
Table 12-38.1 Decisions, Potential Decision Errors, and Potential Consequences	12.38-6
Figure 12-38.1 OU III LIPA Monitoring Well Locations.....	12.38-7
Table 12-39.1 Decisions, Potential Decision Errors, and Potential Consequences	12.39-6
Figure 12-39.1 OU III Industrial Park East Monitoring Well Locations	12.39-7
Table 12-40.1 Decisions, Potential Decision Errors, and Potential Consequences	12.40-6
Figure 12-40.1 OU III North Street East Monitoring Well Locations	12.40-7
Table 12-41.1 Decisions, Potential Decision Errors, and Potential Consequences	12.41-4
Table 12-41.1 Comparison of CY2007 and CY2008 Monitoring Program-Permanent Wells.....	12.41-6
Figure 12-41.1 AOC 16T g-2 Tritium Plume 2007	12.40-7
Figure 13-1.1 Current Landfill Soil Gas Monitoring Well Locations	13.1-3
Figure 13-1.2 OU III North Street East Monitoring Well Locations	13.2-5