Sampling Location	Reporting to Regulators	Reporting to Departments	Lead Organization	Sample Type	Analysis/Frequency				
Water-SPDES: Compliance (See Chapter 9)									
STP Effluent (8 months/year)	Monthly	Yes (cc)	EWMSD	24 hr. Composite	TAL metals, nitrogen series, BOD ₅ , TSS, total phosphorus - sampled and analyzed 2x/month				
STP Effluent (4 months/year)	Monthly	Yes (cc)	EWMSD	24 hr. Composite	TAL metals, nitrogen series, BOD ₅ , TSS, total phosphorus, whole effluent toxicity testing - sampled and analyzed 3x/month				
STP Effluent (1 month/year)	Annually	Yes (cc)	EWMSD	24 hr. Composite (Grab)	Semi-VOCs (EPA 8270 and 15 compound library search), herbicides (EPA 8150), pesticides (EPA 608, grab sample) - sampled and analyzed 3x/month				
STP Influent (8 months/year)	Monthly	Yes (cc)	EWMSD	24 hr. Composite	TAL metals, BOD ₅ , TSS - sampled and analyzed 2x/month				
STP Influent (4 months/year)	Monthly	Yes (cc)	EWMSD	24 hr. Composite	TAL metals, BOD ₅ , TSS - sampled and analyzed 3x/month				
STP Effluent (8 months/year)	Monthly	Yes (cc)	EWMSD	Grab Sample	VOCs (EPA 624) and ketones, cyanide, fecal coliform - sampled and analyzed 2x/month				
STP Effluent (4 months/year)	Monthly	Yes (cc)	EWMSD	Grab Sample	VOCs (EPA 624) ketones, cyanide, fecal coliform, PCBs (EPA 608) - sampled and analyzed 3x/month				
STP Effluent (Daily)	Monthly	Yes (cc)	EP	Grab Sample	Temperature, pH, settable solids, flow - sampled and analyzed daily				
HN, HT-W, HS, CSF, HT-E, HW, Bldg 1004/1002-Outfall 002B (monthly)	Monthly	Yes (cc)	EWMSD	Grab Sample	Oil, grease, and pH (VOCs EPA 624, HW only) - sampled and analyzed monthly				
HX (monthly)	Monthly	Yes (cc)	EWMSD/EP	Grab Sample	Flow (EP totalizer) and pH - sampled and analyzed monthly				
HN, HT-W, HT-E, HW, CSF, HS, Bldg 1004/1002-Outfall 002B (quarterly)	Quarterly	Yes (cc)	EWMSD	Grab Sample	HEDP, TTA, Copper at HS, VOCs (EPA 624) at HN, TAL Metals at HN, CSF, and HW (filtered) - sampled and analyzed quarterly				
Bldg. 535 Printed Circuit Board Lab	Quarterly	Yes (cc)	EWMSD/IO	Grab Sample	pH, Semi-VOCs (EPA 625), flow (IO), TAL metals (surveillance) - sampled and analyzed quarterly				
Bldg. 498 Central Cleaning Facility	Quarterly	Yes (cc)	EWMSD/EP	Grab Sample	pH, Semi-VOCs (EPA 625), TAL metals, flow - sampled and analyzed quarterly				
		Water-SPDES	: Compliance (See (Chapter 9)					
Bldg. 902 Cooling Tower (quarterly)	Quarterly	Yes (cc)	EWMSD/CA	Grab Sample	pH, flow (CA), PPGMBE - sampled and analyzed quarterly				
Satellite Boilers	Quarterly	No	EP/EWMSD	Grab Sample	pH, flow (each discharge)				
HS, HO, HN, HT-W, HT-E, HM-N, HM-S, HQ, HE, HZ, and Outfall 002B (Flow circular chart/strip chart exchange)	Monthly	Yes (cc)	EWMSD	Grab Sample	Flow readings collected weekly - HO, HZ, HE, HM-S, HM-N, and HQ surveillance only; not reported to regulators				

Sampling Location	Reporting to Regulators	Reporting to Departments	Lead Organization	Sample Type	Analysis/Frequency
		Potable Water:	Compliance (See C	Chapter 11)	
Potable Wells 4, 6, 7, 10, 11, and 12	Quarterly	Yes (cc)	EWMSD	Grab Sample	Gross alpha/beta, gamma, tritium, Sr-90 - sampled and analyzed quarterly; inorganic chemicals (IOC Groups 1, 2, 3, 4) - sampled and analyzed annually; water quality (alkalinity/calcium) - sampled and analyzed biannually
Potable Wells 4, 6, 7, 10, 11, 12, 10-GAC, 11-GAC, and 12-GAC	Quarterly	Yes (cc)	EP	Grab Sample	Principle Organic Contaminants (EPA 502.2) - sampled and analyzed quarterly
Potable Wells 4, 6, 7, 10, 10-GAC, 11, 11-GAC, 12, 12-GAC, and Water Treatment Facility	Quarterly	Yes (cc)	EP	Grab Sample	Bacteriology - sampled and analyzed quarterly
	Monthly	Yes (cc)	EP	Grab Sample	Bacteriology - sampled and analyzed at 7 locations monthly
	Quarterly	Yes (cc)	EP	Grab Sample	Water Quality - sampled and analyzed quarterly at 3 locations
Potable Water Distribution System	Semiannual	Yes (cc)	EP	Grab Sample	Inorganic chemicals (IOC 1, 2, 3, 4), Nitrate/Nitrite, THMs, HAA5 - sampled and analyzed semiannually
	Annual	Yes (cc)	EP	Grab Sample	Asbestos - sampled and analyzed once per year
	Triennially	Yes (cc)	EP	Grab Sample	Lead and Copper - sampled and analyzed once every 3 years at 20 locations; required in 2009
Western Well Field (Wells 4, 6, and 7)	Annually	Yes (cc)	EP	Composite	SOCs - sampled and analyzed once per year; sample composited by contract analytical laboratory
Eastern Well Field (Wells 10, 11, and 12)	Annually	Yes (cc)	EP	Composite	SOCs - sampled and analyzed once per year; sample composited by contract analytical laboratory
Points of Entry	Biweekly	Yes (cc)	EP	Grab	Temperature, conductivity, and pH - sampled and analyzed biweekly by operating personnel

	Groundwater: Compliance (See Chapter 12)								
	Major Petroleum Facility (8 monitoring wells)	Semiannual	Yes (cc)	EWMSD	Grab Sample	VOCs and MTBE (EPA 624), Semi-VOCs (EPA 625) - sampled and analyzed semiannually			
		Semiannual	Yes (cc)	EWMSD	Grab Sample	Floating product check - monthly			
	Waste Management Facility (8 wells)	Annual	Yes (cc)	EWMSD	Grab Sample	VOCs (EPA 524.2), tritium, gamma, gross alpha/beta - sampled and analyzed semi-annually			
		Annual	Yes (cc)	EWMSD	Grab Sample	Metals and anions - sampled and analyzed annually			

Sampling Location	Reporting to Regulators	Reporting to Departments	Lead Organization	Sample Type	Analysis/Frequency		
Sewage Treatment Plant: Surveillance (See Chapter 9)							
	SER	SER	EWMSD	Composite	Metals, anions - sampled and analyzed monthly		
	SER	SER	EWMSD	Grab Sample	VOCs (EPA 524.2) - sampled and analyzed monthly		
EA	SER	SER	EWMSD	Composite	Sr-90 and gamma - sampled 3x/week and composited by contract analytical laboratory for monthly analysis		
	SER	SER	EWMSD	Composite	Gross alpha/beta, tritium - sampled and analyzed 3x/week		
	SER	SER	EWMSD	Composite	Metals, anions - sampled and analyzed monthly		
DA	SER	SER	EWMSD	Composite	Sr-90 and gamma - sampled 3x/week and composited by contract analytical laboratory for monthly analysis		
	SER	SER	EWMSD	Composite	Gross alpha/beta, tritium - sampled and analyzed 3x/week		
HFBR – MH #232	SER	SER	EWMSD	Weekly Composite	Tritium - sampled and analyzed once per week		
HFBR – MH #232	SER	SER	EWMSD	Weekly Composite	Gross alpha/beta, gamma - sampled once per month		

Surface Water - Peconic River: Surveillance (See Chapter 10)									
HY – Outside RHIC Ring	SER	SER	EWMSD	Grab Sample	Gross alpha/beta, gamma, tritium, Sr-90, metals (unfiltered), anions, VOCs (EPA 524.2) - sampled and analyzed quarterly; filtered metals- samples collected semiannually				
HV – Inside RHIC Ring	SER	SER	EWMSD	Grab Sample	Gross alpha/beta, gamma, tritium - sampled and analyzed quarterly				
HE	SER	SER	EWMSD	24 hr. Composite	Metals (unfiltered), anions, Sr-90, gamma, gross alpha/beta, tritium - sampled and analyzed quarterly; filtered metals - samples collected semiannually				
	SER	SER	EWMSD	Grab Sample	VOCs (EPA 524.2) - sampled and analyzed quarterly				
	SER	SER	EWMSD	24 hr. Composite	Metals (unfiltered), anions - sampled and analyzed monthly; filtered metals - collected every other month				
LIM N	SER	SER	EWMSD	24 hr. Composite	Sr-90, gamma - sampled and analyzed quarterly				
HM-N	SER	SER	EWMSD	24 hr. Composite	Gross alpha/beta, tritium - sampled and analyzed once per month				
	SER	SER	EWMSD	Grab Sample	VOCs (EPA 524.2) - sampled and analyzed once per month				

Sampling Location	Reporting to Regulators	Reporting to Departments	Lead Organization	Sample Type	Analysis/Frequency				
HM-S	SER	SER	EWMSD	Grab Sample	Metals (unfiltered), anions, VOCs (EPA 524.2), Sr-90, gross alpha/beta, gamma, and tritium - sampled and analyzed quarterly; filtered metals samples collected semiannually				
HQ	SER	SER	EWMSD	24 Hr. Composite	Metals (unfiltered), anions - sampled and analyzed monthly; filtered metals samples collected every other month.				
Surface Water: Surveillance - Peconic River (See Chapter 10)									
	SER	SER	EWMSD	24 Hr. Composite	Sr-90, gamma- sampled and analyzed quarterly				
HQ	SER	SER	EWMSD	24 Hr. Composite	Gross alpha/beta, tritium - sampled and analyzed once per month				
	SER	SER	EWMSD	Grab Sample	VOCs (EPA 524.2) - sampled and analyzed once per month				
HA, HH	SER	SER	EWMSD	Grab Sample	Metals (unfiltered), anions, VOCs (EPA 524.2), gross alpha/beta, gamma, and tritium - sampled and analyzed quarterly; filtered metals - samples collected semiannually				
Swan Pond, Donahue's Pond, Forge Pond	SER	SER	EWMSD	Grab Sample	Metals (unfiltered), anions, VOCs (EPA 524.2), gross alpha/beta, gamma, and tritium - sampled and analyzed quarterly; filtered metals - samples collected semiannually				
		Recharge Basins	: Surveillance (Se	e Chapter 9)					
HT-E, HT-W, HS, HN	SER	SER	EWMSD	24 Hr. Composite	Metals (unfiltered), anions, gross alpha/beta, tritium, and gamma - sampled and analyzed quarterly; filtered metals - samples collected semiannually				
HT-E, HT-W, HS, HN	SER	SER	EWMSD	Grab Sample	VOCs (EPA 524.2) - sampled and analyzed quarterly				
HW, HO, HZ	SER	SER	EWMSD	Grab Sample	Metals (unfiltered), anions, VOCs (EPA 524.2) at HO and HZ, gross alpha/beta, tritium, and gamma - sampled and analyzed quarterly; filtered metal- samples collected semiannually; oil and grease - sampled and analyzed quarterly at HZ only				
CSF	SER	SER	EWMSD	Grab Sample	Metals (unfiltered), anions, VOCs (EPA 524.2) - sampled and analyzed quarterly; filtered metals - samples collected semiannually				
		Potable Water:	Surveillance (See (Chapter 11)					
Wells #4, #6, #7, #10, #11, #12	SER	SER	EWMSD	Grab Sample	VOCs (EPA 524.2) - sampled and analyzed quarterly				
Wells #4, #6, #7, #10, #11, #12	SER	SER	EWMSD	Grab Sample	Anions, metals - sampled and analyzed annually				

Sampling Location	Reporting to Regulators	Reporting to Departments	Lead Organization	Sample Type	Analysis/Frequency			
	,	Precipitation:	Surveillance (See (Chapter 8)				
P4, S5	SER	SER	EWMSD	Monthly Composite	Gross alpha/beta, gamma, tritium, mercury, and water quality - sampled and analyzed once per quarter			
Air Monitoring: Surveillance - Particulate Filter (See Chapters 5 and 6)								
S6, P7, P7-2, S5, P4, P2, P9, NYSDOH	SER	SER	EWMSD	Weekly Composite	Gross alpha/beta - sampled and analyzed weekly; contract analytical laboratory composites filters for monthly gamma analysis			
BLIP and Bldg. 801 Non-acid fan	SER	SER	EWMSD	Weekly Composite	Gross alpha/beta, gamma - sampled and analyzed weekly			
Air Monitoring: Surveillance – Charcoal (See Chapter 5)								
Bldg. 801 Non-acid fan	SER	SER	EWMSD	Weekly Composite	Gamma - sampled and analyzed weekly			
BLIP	SER	SER	EWMSD	Weekly Composite	Gamma - sampled and analyzed weekly when BLIP is running			
		Groundwater: S	Surveillance (See C	Chapter 12)				
BMRR (4 wells)	SER/GMR	Biennial	EWMSD	Grab Sample	Tritium, gross alpha and beta, gamma - sampled and analyzed every 2 years			
BLIP (7 wells)	SER/GMR	Annual	EWMSD	Grab Sample	Tritium - sampled and analyzed quarterly; gamma-sampled and analyzed annually in select wells			
STP (9 wells)	SER/GMR	Annual	EWMSD	Grab Sample	Metals, tritium, gross alpha/beta, gamma, anions - sampled and analyzed annually			
RHIC (13 wells)	SER/GMR	Annual	EWMSD	Grab Sample	Tritium sampled and analyzed semiannually			
Bldg. 801 (1 well)	SER/GMR	Annual	EWMSD	Grab Sample	Tritium, gamma, gross alpha/beta, and Sr-90 - sampled and analyzed semi-annually			
AGS (55 wells)	SER/GMR	Annual	EWMSD	Grab Sample	Tritium - sampled and analyzed quarterly to annually; select wells sampled and analyzed for gamma annually. Temporary wells installed to track downgradient sections of the g-2 tritium plume			
	SER/GMR	Annual	EWMSD	Grab Sample	VOCs (EPA 524.2), gamma (select wells) - sampled and analyzed annually			
M	SER/GMR	Annual	EWMSD	Grab Sample	Floating product check in 3 wells semiannually			
Motor Pool Facility (6 monitoring wells)	SER/GMR	Annual	EWMSD	Grab Sample	VOCs, including MTBE (EPA 624) - sampled and analyzed semiannually			

Sampling Location	Reporting to Regulators	Reporting to Departments	Lead Organization	Sample Type	Analysis/Frequency
	SER/GMR	Annual	EWMSD	Grab Sample	Floating product check in 2 wells semiannually
Service Station (5 monitoring wells)	SER/GMR	Annual	EWMSD	Grab Sample	VOCs, including MTBE (EPA 624) - sampled and analyzed semiannually; some wells sampled under LTRA CCI4 Program

Groundwater: Environmental Restoration - Long-term Response Actions (See Chapter 12)										
Site Background (10 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed annually					
Current Landfill (11 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed quarterly to annually; anions, metals, cyanide - sampled and analyzed quarterly; gross alpha/beta, gamma, tritium, Sr-90, Ra-226 - sampled and analyzed annually					
Former Landfill (8 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed semi-annually to annually; pesticides/PCBs, gross alpha/beta, gamma, tritium, Sr-90 - sampled and analyzed annually; anions, cyanide, metals - sampled and analyzed semiannually					
OU III – Middle Road (24 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed semi-annually for plume core and perimeter wells; sampled and analyzed quarterly for bypass wells					
OU VI Ethylene Dibromide (30 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed annually; EDB - sampled and analyzed semi-annually for perimeter and core wells and quarterly for background wells					
Chemical/Animal Holes (41 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed annually; Sr-90 - sampled and analyzed annually to quarterly					

Groundwater: Environmental Restoration- Long-term Response Actions (See Chapter 12)									
OU I South Boundary (44 wells)	SER/GMR		EWMSD	Grab Sample	VOCs and gamma - sampled and analyzed annually; tritium and Sr-90 - sampled and analyzed semi-annually for core and perimeter and annually for background wells.				
OU III North Street (27 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed quarterly for bypass wells, semi-annually for perimeter and core wells, and annually for background wells; gross alpha/beta, gamma, tritium, Sr-90 - sampled and analyzed annually				
OU III – Central (20 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - all wells sampled and analyzed annually except for 109-03 and 109-04, which are sampled and analyzed quarterly				

Sampling Location	Reporting to Regulators	Reporting to Departments	Lead Organization	Sample Type	Analysis/Frequency
OU III – Building 96 (33 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed quarterly
OU III - Carbon Tetrachloride (34 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed annually to quarterly
OU III - South Boundary (38 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed annually to quarterly
OU III – South Boundary Radionuclide (54 wells)	SER/GMR		EWMSD	Grab Sample	Gross strontium-90, gamma, tritium - sampled and analyzed annually
OU III Western South Boundary (17 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed semi-annually for plume core and perimeter wells; all other sampled and analyzed quarterly
OU III Magothy	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed quarterly
OU III (BGRR/WCF Sr-90) (86 wells)	SER/GMR		EWMSD	Grab Sample	Sr-90 - sampled and analyzed semi-annually to annually
OU III – Offsite (12 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed semi-annually
OU IV - AOC 5 (3 wells)	SER/GMR		EWMSD	Grab Sample	VOCs and semi-VOCs – sampled and analyzed quarterly
OU III – HFBR (116 wells)	SER/GMR		EWMSD	Grab Sample	Tritium - sampled and analyzed to annually; VOCs in selected wells - sampled and analyzed annually

Groundwater: Environmental Restoration- Long-term Response Actions (See Chapter 12)									
OU III -Industrial Park (40 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed annually to quarterly				
OU IV – AOC 6 (29 wells)	SER/GMR		EWMSD	Grab Sample	Gross alpha/beta, gamma, tritium, Sr-90 - sampled and analyzed semi-annually				
OU V (34 wells)	SER/GMR		EWMSD	Grab Sample	VOCs and tritium - sampled analyzed annually				
OU III Long Island Power Authority (16 Wells)	SER/GMR		EWMSD	Grab Sample	VOCs – sampled and analyzed semi-annually to quarterly				
OU III Industrial Park East (12 Wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed quarterly				
OU III North Street East (15 Wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed semi-annually to quarterly				
OU III Airport (28 wells)	SER/GMR		EWMSD	Grab Sample	VOCs - sampled and analyzed quarterly				
Sampling Location	Reporting to Regulators	Reporting to Departments	Lead Organization	Sample Type	Analysis/Frequency				

Flora and Fauna: Surveillance - Terrestrial Sampling (On site) (See Chapter 8)								
Soil	SER/IAG	SER	EWMSD	None	Former HWMF monitoring in 2006; all other monitoring discontinued in 2003			
Vegetation	SER/IAG	SER	EWMSD	None	Former HWMF monitoring in 2006; all other monitoring discontinued in 2003			
Deer	SER	SER	EWMSD	Grab Sample	Gamma and Sr-90 analysis - 25 samples, as available			
Small Mammal – Squirrels	SER	SER	EWMSD	Grab Sample	Gamma and Sr-90 analysis - 10 samples annually			
Garden Vegetables	SER	SER	EWMSD	Grab Sample	Gamma analysis - 5 samples annually			
Soil from Vegetable Garden	SER	SER	EWMSD	Grab Sample	Gamma analysis - 1 sample annually			
Soil/Sediment – Recharge Basins	SER	SER	EWMSD	Grab Sample	HN (4), HO (2), HTe, HTw, HW, and HS Metals, gamma, semi-volatiles			
Deer	SER	SER	EWMSD	Grab Sample	Gamma and Sr-90 analysis - 40 samples, as available			
Small mammal – Squirrels	SER	SER	EWMSD	Grab Sample	Gamma and Sr-90 analysis - 5 samples, as available			
Soil			EWMSD	None	Monitoring discontinued in 2003			

Flora and Fauna: Surveillance - Terrestrial Sampling (Off site) (See Chapter 8)								
Vegetation				EWMSD	None	Monitoring discontinued in 2003; followup monitoring in 2008		
Flora and Fauna: Surveillance - Aquatic Sampling (See Chapter 8)								
Fish		SER	SER	EWMSD	Grab Sample	Gamma, Sr-90, metals, and pesticides/PCBs analysis - 40 samples annually		
Freshwater mussels				EWMSD	None	Monitoring discontinued in 2003		
Vegetation		SER	SER	EWMSD	Grab Sample	Gamma, metals, and pesticides/PCBs analysis - 8 samples annually		
Sediment		SER	SER	EWMSD	Grab Sample	Gamma, Sr-90, metals (mercury and methyl mercury added), and pesticides/PCBs analysis - 31 samples annually		
Estuarine Clams/Mussels				EWMSD	None	Monitoring discontinued in 2003		

Sampling Location	Reporting to Regulators	Reporting to Departments	Lead Organization	Sample Type	Analysis/Frequency
Surface Water	SER/IAG	SER/IAG	EWMSD	None	Mercury, methyl mercury, TSS - 22 samples taken in June and August annually
Surface Water	SER	SER	EWMSD	Grab	TAL metals, nutrients, water quality parameters - Meadow Marsh
T					
	Air Emissio	ons: Surveillance –	Radiological - Silic	a Gel (See Chapters 5 a	nd 6)
049-DC, 053-DC, 122-DC, S6, P7, P2, P4, P9, and a rotating duplicate	SER	SER	EWMSD	Particulate and Silica Gel	Gross alpha/beta, gamma, and tritium - sampled continuously for 2 weeks (26 samples/year/location)
BLIP	SER	SER	EWMSD	Particulate and Silica Gel	Gross alpha/beta and tritium - sampled weekly
HFBR T-Tube	SER	Quarterly	EWMSD	Silica gel	Tritium - sampled and analyzed once per month
Ambie	ent Air: Surveillan	nce - Radiological - I	TLD Exchange (Off	site) - BNL Personnel (See Chapter 7)
000-TLD4, 000-TLD5, 000-TLD7, 200-TLD2, 300-TLD2, 300-TLD3, 400-TLD1, 500-TLD1, 500-TLD2, 700-TLD2, 700-TLD3, 700-TLD4, 800-TLD1, 800-TLD2, 800-TLD3, 900-TLD2, and 999-TLD1	SER	SER	EWMSD	External Dose	Beta/gamma dose exchanged quarterly

Ambient Air: Surveillance - Radiological - TLD Exchange (On site) (See Chapter 7)								
P4, S6, P7, P2, S5, 011-TLD1, 013-TLD1, 025-TLD1, 025-TLD1, 025-TLD4, 027-TLD1, 027-TLD2, 030-TLD1, 034-TLD1, 034-TLD2, 036-TLD1, 036-TLD2, 037-TLD1, 043-TLD1, 043-TLD2, 044-TLD1, 044-TLD2, 044-TLD3, 044-TLD3, 045-TLD1, 045-TLD1, 045-TLD1, 055-TLD4, 045-TLD1, 054-TLD1, 054-TLD1, 054-TLD1, 054-TLD1, 074-TLD1, 074-TLD1, 075-TLD3, 075-TLD3, 075-TLD3, 075-TLD3, 075-TLD3, 088-TLD1, 088-TLD1, 088-TLD1, 088-TLD1, 088-TLD1, 088-TLD1, 088-TLD1, 111-TLD1, 122-TLD1, 126-TLD1	SER	SER	EWMSD	Quarterly	Beta/gamma exchanged and analyzed quarterly			

Sampling Location	Reporting to Regulators	Reporting to Departments	Lead Organization	Sample Type	Analysis/Frequency				
Ai	Ambient Air: Surveillance – Radiological- TLD Exchange (Off site Facilities) (See Chapter 7)								
000-TLD5, 000-TLD7, 400-TLD1, 600-TLD3, and 800-TLD3	SER	SER	EWMSD	Quarterly Composite	Beta/gamma exchanged and analyzed quarterly				
	Air E	missions: Complia	nce – Non-radiolog	nical (See Chapter 5)					
CSF – Boiler #6 Stack	SER/QES	Yes (cc)	EP	Continuous	NO _x , CO ₂ , CO - continuous emissions monitoring				
CSF – Boiler #6 Stack	SER/QES	Yes (cc)	EP	Continuous	Opacity - continuous emissions monitoring				
CSF – Boiler #7 Stack	SER/QES	Yes (cc)	EP	Continuous	NO _x , CO ₂ , CO - continuous emissions monitoring				
CSF – Boiler #7 Stack	SER/QES	Yes (cc)	EP	Continuous	Opacity - continuous emissions monitoring				
CSF – Tank Nos. 4, 9, and 10	SER/QES	Yes (cc)	EP	Quarterly	Sulfur and nitrogen fuel content - quarterly analysis				
Satellite Boiler Fuel Storage Tanks	SER/QES	Yes (cc)	EP	Quarterly	Sulfur content – quarterly analysis if fuel is delivered				
CSF- Boiler #1A Stack	SER/STR	Yes (cc)	EP	Performance Test	NO _x TSP – every 5 years				
CSF- Boiller #5 Stack	SER/STR	Yes (cc)	EP	Performance Test	NO _x TSP – every 5 years				
CSF- Boiller #6 Stack	SER/STR	Yes (cc)	EP	Performance Test	TSP – every 5 years				
CSF- Boiller #7 Stack	SER/STR	Yes (cc)	EP	Performance Test	TSP – every 5 years				
Fleet Station and Upton Station Gasoline Fueling Stage II Vapor Recovery Systems	SER/CR	Yes (cc)	EP and SS	Performance Test	Back pressure, liquid blockage, and leak tests – every 5 years (due March 2008)				
Used AC Shop Compressor Oil and Collider Accelerator Waste Separator Oil	SER/QES	Yes (cc)	EP	3-4 times per year	Cadmium, arsenic, lead, chromium, sulfur, PCBs, total halogens, flashpoint, and gross heat content - sampled and analyzed as needed				
		Miscellaneous	s Monitoring (See (Chapter9)					
MH #192, STP Influent and Effluent to the primary clarifier			EWMSD	Daily Performance Check	Sewer line radiological monitors daily performance checked with Cs-137 button source				

Sampling Location	Reporting to Regulators	Reporting to Departments	Lead Organization	Sample Type	Analysis/Frequency				
Landfill Gas and Surface Leachate Monitoring (See Chapter 13)									
Current Landfill – Wooded Wetland Monitoring (7 locations with samples of both sediment and surface water)	ALMR		ERD	Grab Sample	Metals - sampled and analyzed annually				
BNL Landfills, Soil Gas Monitoring Current Landfill – 58 sampling points Former Landfill – 24 sampling points	ALMR		ERD	Grab Sample	Methane and hydrogen sulfate - sampled and analyzed quarterly for the Current Landfill and annually for the Former Landfill				
Pecon	nic River Sediment	t: Environmental Re	estoration- Long-te	rm Response Actions (See Chapter 8)				
PR-SS-02, PR-SS-03, PR-SS-04, PR-SS-05, PR-SS-06, PR-SS-07, PR-SS-09, PR-SS-10, PR-SS-12, PR-SS-14, PR-SS-15, PR-SS-17. PR-SS-18, PR-SS-9,PR-WW-21, PR-WW-23, PR-SS-24,PR-SS-26, PR-SS-29, PR-SS-30, PR-SS-31,- PR-SS-35, PR-SS-37, PR-SS-38, PR-MR-02,	Peconic River Monitoring Report (PRMR)	COCs Field Notes	LTRA	Core	Mercury, PCBs, cesium-137 – sampled and analyzed annually in June.				
PR-SS-01, PR-SS-16, PR-SS-33, PR-MR-01, PR-SS-DP-01	PRMR	COCs Field Notes	LTRA	Core	Mercury, silver, copper, PCBs, pesticides, cesium-137 – sampled and analyzed annually in June.				
Sediment within or beneath HQ sediment trap.	PRMR	COCs Field Notes	LTRA	Core/Composite (within trap)	Mercury, PCBs, cesium-137 – sampled and analyzed annually in June.				
Pecc	onic River Surface	Water: Environmen	ntal Restoration- Lon	g-term Response Actions	s (See Chapter 8)				
PR-WC-14, PR-WC-13, PR-WC-12, PR-WC-11, PR-WC-10, PR-WC-09, PR-WC-08, PR-WC-07, PR-WC-06, PR-WC-05, PR-WC-04, PR-WC-03, PR-WC-02, PR-WC-01, PR-WCS-01, PR-WCS-02, PR-WCS-03, PR-WCS-04, PR-WCS-05, PR-WCS-06, PR-WCS-07	PRMR	COCs Field Notes	LTRA	Grab	Total mercury, methylmercury, total suspended solids (TSS), chlorophyll-a, total phosphorus, total nitrogen, nitrate/nitrite, total Kjeldahl nitrogen, (TKN), total organic carbon, (TOC), - Field Measurements: Turbidity, Dissolved oxygen (DO), pH, depth, width. Collect twice annually in June and between last week of July and first week of August. (At Connetquot River only total mercury, methylmercury and TSS are analyzed.)				
Sampling Location	Reporting to Regulators	Reporting to Departments	Lead Organization	Sample Type	Analysis/Frequency				

Peconic River Surface Water (continued): Environmental Restoration- Long-term Response Actions (See Chapter 8)								
PR-WC-10, PR-WC-09, PR-WC-08, PR-WC-06, PR-WC-04, PR-WC-03, PR-WC-01, PR-WCS-04	PRMR	COCs Field Notes	LTRA	Grab	Total suspended solids (TSS), chlorophyll-a, total phosphorus, total nitrogen, nitrate/nitrite, total Kjeldahl nitrogen, (TKN), total organic carbon, (TOC), Field Measurements: Turbidity, Dissolved oxygen (DO), pH, depth Collections occur five times annually (two weeks before and			
					after each of the above total mercury, methylmercury and TSS collections.)			
HQ (3 samples between sediment trap and gauging station)	PRMR	COCs Field Notes	LTRA	Grab	TSS, DO - collected semi-weekly April to October as flow conditions permit.			
Peconic River Fish: Environmental Restoration- Long-term Response Actions (See Chapter 8)								
On BNL property: Area A (HmN), North St. (Area D)	PRMR	COCs Field Notes	LTRA	Grab	Mercury, PCBs, cesium-137 – collected once annually between late April and September, as fish population and flow conditions permit			
Outside BNL property: Schultz Rd. (Area P), Manor Rd, Donahue's Pd.	PRMR	COCs Field Notes	LTRA	Grab	Mercury, pesticides, PCBs, cesium-137 and other gamma- emitting radionuclides, as fish population and flow conditions permit,			