APPENDIX F
Number of Samples Collected with Valid Analytical Results Versus Planned

Program Description	Sample Matrix	Analysis Method	Sampling Frequency	Number Completed	Number Planned	Percent Complete
Routine						
Air Particulate	Air Filter	ICP-MS, beryllium	Monthly	136	136	100
Air Particulate	Air Filter	Gross α / β	Biweekly	712	737	97
Air Particulate	Air Filter	Gamma spec suite of nine radionuclides	Monthly	36	36	100
Air Particulate	Air Filter	Alpha spec isotopes of Pu	Monthly	226	228	99
Air Particulate	Air Filter	ICP-MS isotopes of uranium	Monthly	130	132	98
Air Tritium	Silica gel	Tritium on silica gel by LCS	Biweekly	539	546	99
Liv Valley Annual Wells	Groundwater	Tritium in groundwater by LSC	Annually	13	15	87
Annual Soils	Soil	Tritium by LSC	Annually	5	5	100
Annual Soils	Soil	Gross α / β	Annually	5	5	100
Annual Soils	Soil	Gamma spectroscopy for a suite of ten radionuclides	Annually	30	30	100
Annual Soils	Soil	Alpha spectroscopy for isotopes or plutonium	Annually	18	18	100
Annual Soils	Soil	Total metals	Annually	12	12	100
B581 STACK data	Air Filter	Gross α / β	Weekly	51	52	98
B581 STACK data	Air Filter	Tritium by LSC	Weekly	51	52	98
B581 STACK data	Air Filter	Gamma spectroscopy for a suite of five radionuclides	Weekly	51	52	98
B581 STACK data	Air Filter	Iodine 131 by gamma spectroscopy	Weekly	51	52	98
TEDA Air Filter	Air Filter	Iodine 131 by gamma spectroscopy	Weekly	35	52	67
Wine	Wine	Tritium by LSC	Annually	12	12	100
Vegetation	Vegetation	Tritium by LSC	Quarterly	72	72	100
Valley Other Waters	Drinking Water	Gross α / β	Semi-annually	4	4	100
Valley Other Waters	Drinking Water	Tritium by LSC	Semi-annually	4	4	100

F. Number of Samples Collected with Valid Analytical Results Versus Planned

Program Description	Sample Matrix	Analysis Method	Sampling Frequency	Number Completed	Number Planned	Percent Complete
Valley Other Waters	Groundwater	Gross α / β	Annually	5	6	83
Valley Other Waters	Groundwater	Tritium by LSC	Annually	5	6	83
Sewer Non-Rad	Wastewater	Solids by Methods 2540 and 160.4	Monthly (increased to weekly mid-year)	55	58	95
Sewer Non-Rad	Wastewater	Cyanide by Method 335.4	Quarterly	5	5	100
Sewer Non-Rad	Wastewater	Organochlorine pesticides by Method 608	Monthly	14	14	100
Sewer Non-Rad	Wastewater	Volatile organic compounds by Method 624	Monthly	18	19	95
Sewer Non-Rad	Wastewater	Semi-volatile organics by Method 625	Monthly	13	13	100
Sewer Non-Rad	Wastewater	Tritium by LSC	Annually	2	1	200
Sewer Non-Rad	Wastewater	Gross α / β and tritium	Weekly plus monthly duplicates	64	64	100
Sewer Non-Rad	Wastewater	Biochemical oxygen demand by SM 5210B	Weekly	54	57	95
Sewer Non-Rad	Wastewater	Metals by Method 200.8	Quarterly	6	8	75
Sewer Rad	Wastewater	Cesium 137 by gamma spectroscopy	Monthly	36	36	100
Sewer Rad	Wastewater	Gross α / β	Monthly	36	36	100
Sewer Rad	Wastewater	Gamma spectroscopy suite of nine radionuclides	Quarterly	4	3	133
Sewer Rad	Wastewater	Plutonium isotopes by alpha spectroscopy	Monthly (quarterly for L-WRDC-SW)	40	39	103
Sewer Rad	Wastewater	Tritium by LSC	Monthly composite of daily	11	12	92
Sewer Rad	Wastewater	Tritium by LSC	Monthly	36	36	100
Sewer Rad	Wastewater	Gross α / β and tritium	Monthly gross α / β, daily tritium, plus duplicates	453	456	99
TLDs all Sites	Dosimeters	Thermoluminescent dosimetry	Quarterly	260	261	100
Site 300 Cooling Towers	Wastewater	Anions, metals, solids, pH, alkalinity	Semi-annually	82	82	100

F. Number of Samples Collected with Valid Analytical Results Versus Planned

Program Description	Sample Matrix	Analysis Method	Sampling Frequency	Number Completed	Number Planned	Percent Complete
Site 300 Mechanical Equipment Room Discharges	Wastewater	Anions, metals, solids, pH, alkalinity	Semi-annually	48	48	83
Site 300 B851 Stormwater Runoff and Sediment Monitoring	Stormwater and soil	Metals, perchlorate explosives, isotopes of uranium	Annually	0 runoff 5 soil	5 runoff 5 soil	0 runoff 100 soil
Pretreatment	Wastewater	VOCs, SVOC and metals	Semi-annually	12	12	100
Non-Routine						
Pre-construction Soils	Soil	Soil reuse analytical suite	As needed	5,662	6,207	91
Site 300 Sewage Pond Discharge	Wastewater	DO, conductivity, pH, fecal coliform BOD, metals	As needed	23	30	77
Industrial Management Area Storm Water Runoff	Stormwater	NPDES permit analytical suite	Storm dependent	19	32	59
Rain	Rain	Tritium by LSC	Storm dependent	19	54	35

*See Chapter 8, Section 8.2.3.2 for more information about completeness. Data date: June 16, 2023

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