APPENDIX F
Percentage of In-Control Duplicate Pairs for Field Collocated Samples

Monitoring Program	Media	Analyte	Percent of Pairs within Control Limit[1]
Livermore Site and Site 300 Ambient Air	Air Filter	Beryllium	88%
Livermore Site and Site 300 Ambient Air	Air Filter	Uranium-235	82%
Livermore Site and Site 300 Ambient Air	Air Filter	Uranium-235/238	100%
Livermore Site and Site 300 Ambient Air	Air Filter	Uranium-238	82%
Livermore Site, Livermore Valley and Site 300 Ambient Radiation	Dosimeter	Radiation dose, average	100%
Livermore Site, Livermore Valley and Site 300 Ambient Radiation	Dosimeter	Radiation dose, 90-days	100%
Groundwater from Off-site Wells and Springs	Groundwater	Arsenic	77%
Groundwater from Off-site Wells and Springs	Groundwater	Barium	100%
Groundwater from Off-site Wells and Springs	Groundwater	Gross alpha	0%
Groundwater from Off-site Wells and Springs	Groundwater	Gross beta	78%
Groundwater from Off-site Wells and Springs	Groundwater	Molybdenum	100%
Groundwater from Off-site Wells and Springs	Groundwater	Potassium	100%
Groundwater from Off-site Wells and Springs	Groundwater	Selenium	100%
Groundwater from Off-site Wells and Springs	Groundwater	Tritium	100%
Groundwater from Off-site Wells and Springs	Groundwater	Uranium-233/234	100%
Groundwater from Off-site Wells and Springs	Groundwater	Uranium-238	100%
Groundwater from Off-site Wells and Springs	Groundwater	Vanadium	100%
Groundwater from Off-site Wells and Springs	Groundwater	Zinc	0%
Pre-construction Soil	Soil	Arsenic	100%
Pre-construction Soil	Soil	Barium	100%
Pre-construction Soil	Soil	Chromium	100%
Pre-construction Soil	Soil	Cobalt	100%
Pre-construction Soil	Soil	Copper	90%
Pre-construction Soil	Soil	Hexavalent Chromium	100%
Pre-construction Soil	Soil	Lead	88%
Pre-construction Soil	Soil	Mercury	60%
Pre-construction Soil	Soil	Molybdenum	75%
Pre-construction Soil	Soil	Nickel	82%
Pre-construction Soil	Soil	Oil	100%
Pre-construction Soil	Soil	Selenium	100%
Pre-construction Soil	Soil	Silver	100%

F. Percentage of In-Control Duplicate Pairs for Field Collected Samples

Monitoring Program	Media	Analyte	Percent of Pairs within Control Limit[1]
Pre-construction Soil	Soil	Uranium-233/234	100%
Pre-construction Soil	Soil	Uranium-235/236	100%
Pre-construction Soil	Soil	Vanadium	100%
Pre-construction Soil	Soil	Zinc	100%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Americium-241	100%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Beryllium	100%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Cesium-137	100%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Gross alpha	100%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Gross beta	50%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Moisture by weight	100%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Plutonium-238	50%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Plutonium-239/240	100%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Potassium-40	100%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Radium-226	100%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Radium-228	100%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Thorium-228	100%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Tritium	0%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Uranium-235	100%
Livermore Site, Livermore Valley and Site 300 Soil	Soil	Uranium-238	75%
Livermore Site Storm Water Runoff	Storm Water	Ammonia Nitrogen (as N)	100%
Livermore Site Storm Water Runoff	Storm Water	Gross alpha	100%
Livermore Site Storm Water Runoff	Storm Water	Gross beta	100%
Livermore Site Storm Water Runoff	Storm Water	Lead	100%
Livermore Site Storm Water Runoff	Storm Water	Magnesium	0%

Monitoring Program	Media	Analyte	Percent of Pairs within Control Limit[1]
Livermore Site Storm Water Runoff	Storm Water	Nitrate plus Nitrite (as N)	100%
Livermore Site Storm Water Runoff	Storm Water	Total suspended solids	100%
Livermore Valley Wine	Wine	Tritium	0%
Sanitary Sewer Discharge to Livermore WRD	Sewer Effluent	Gross beta	100%
Sanitary Sewer Discharge to Livermore WRD	Sewer Effluent	pH	100%
Sanitary Sewer Discharge to Livermore WRD	Sewer Effluent	Tritium	84%

[1] Control limit is set at 30-percent; an RPD (relative percent difference) > 30-percent is out of control. See Chapter 8, Section 8.2.3, for more information about RPDs.

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