

# APPENDIX A

## Data Tables Checked

The data tables listed in this appendix are accessible at <https://saer.llnl.gov/>, the website for the LLNL annual environmental report.

### A.1 Air Effluent (Chapter 4)

- A.1.1 Summary of gross alpha and gross beta ( $\mu\text{Bq}/\text{m}^3$ ) in air effluent samples from the monitored emission point at Livermore Site, Building 235, 2021
- A.1.2 Summary of tritium in air effluent samples ( $\text{Bq}/\text{m}^3$ ) from the monitored emission points at Livermore Site, Building 331, 2021
- A.1.3 Summary of gross alpha and gross beta ( $\mu\text{Bq}/\text{m}^3$ ) in air effluent samples from the monitored emission points at Livermore Site, Building 332, 2021
- A.1.4 Summary of gross alpha and gross beta ( $\mu\text{Bq}/\text{m}^3$ ) in air effluent samples from the monitored emission point at Livermore Site, Building 581, 2021
- A.1.5 Summary of representative gamma suite for radioactive particulate ( $\mu\text{Bq}/\text{m}^3$ ) in air effluent samples from the monitored emission point at Livermore Site, Building 581, 2021
- A.1.6 Summary of tritium in air effluent samples ( $\text{Bq}/\text{m}^3$ ) from the monitored emission point at Livermore, Building 581, 2021
- A.1.7 Summary of tritium exchange on particulate filter ( $\text{Bq}/\text{m}^3$ ) in air effluent samples from the monitored emission point at Livermore Site, Building 581, 2021
- A.1.8 Summary of Iodine-131 ( $\mu\text{Bq}/\text{m}^3$ ) in air effluent samples from the monitored emission point at Livermore Site, Building 581, 2021
- A.1.9 Summary of gross alpha and gross beta ( $\mu\text{Bq}/\text{m}^3$ ) in air effluent samples from the monitored emission point at Livermore Site, Building 695, 2021
- A.1.10 Summary of gross alpha and gross beta ( $\mu\text{Bq}/\text{m}^3$ ) in air effluent samples from the monitored emission point at Site 300, Building 801, 2021

### A.2 Ambient Air (Chapter 4)

- A.2.1(a) Bi-weekly gross alpha concentrations ( $\mu\text{Bq}/\text{m}^3$ ) from air particulate samples from the Livermore perimeter locations, 2021
- A.2.1(b) Bi-weekly gross beta concentrations ( $\mu\text{Bq}/\text{m}^3$ ) from air particulate samples from the Livermore perimeter locations, 2021
- A.2.2 Tritium concentrations ( $\text{mBq}/\text{m}^3$ ) in air on the Livermore Site, 2021
- A.2.3 Beryllium concentration ( $\text{pg}/\text{m}^3$ ) in air particulate samples at the Livermore Site and Site 300, 2021
- A.2.4 Plutonium-239+240 concentrations ( $\text{nBq}/\text{m}^3$ ) in air particulate samples from the Livermore perimeter and Site 300 perimeter composite, 2021
- A.2.5 Uranium mass concentrations ( $\text{pg}/\text{m}^3$ ) and atom ratios in air particulate samples from Livermore Site (composite) and Site 300 onsite and offsite locations, 2021
- A.2.6(a) Bi-weekly gross alpha concentrations ( $\mu\text{Bq}/\text{m}^3$ ) from air particulate samples from the Livermore Valley downwind locations, 2021
- A.2.6(b) Bi-weekly gross beta concentrations ( $\mu\text{Bq}/\text{m}^3$ ) from air particulate samples from the Livermore Valley downwind locations, 2021
- A.2.7 Tritium concentrations ( $\text{mBq}/\text{m}^3$ ) in air, Livermore Valley, 2021
- A.2.8(a) Bi-weekly gross alpha concentrations ( $\mu\text{Bq}/\text{m}^3$ ) from air particulate samples from Livermore Valley upwind location and the special interest location, 2021

## A. Data Tables

- A.2.8(b) Bi-weekly gross beta concentrations ( $\mu\text{Bq}/\text{m}^3$ ) from air particulate samples from Livermore Valley upwind location and the special interest location, 2021
- A.2.9 Plutonium-239+240 concentrations ( $\text{nBq}/\text{m}^3$ ) in air particulate samples from the Livermore Valley, 2021
- A.2.10 Tritium concentrations ( $\text{mBq}/\text{m}^3$ ) in air, Site 300, 2021
- A.2.11(a) Bi-weekly gross alpha concentrations ( $\mu\text{Bq}/\text{m}^3$ ) from air particulate samples from Site 300 on-site and off-site locations, 2021
- A.2.11(b) Bi-weekly gross beta concentrations ( $\mu\text{Bq}/\text{m}^3$ ) from air particulate samples from Site 300 on-site and off-site locations, 2021
- A.2.12 Iodine-131 concentrations ( $\mu\text{Bq}/\text{m}^3$ ) in air TEDA samples from the Livermore Valley, 2021
- A.2.13 Air filter particulates by gamma spectroscopy ( $\text{mBq}/\text{m}^3$ ) for the Livermore Site and Site 300, 2021

### A.3 Livermore Site Wastewater (Chapter 5)

- A.3.1 Daily monitoring for tritium ( $\text{mBq}/\text{mL}$ ) in the Livermore Site sanitary sewer effluent, 2021
- A.3.2 Daily flow totals for Livermore Site sanitary sewer effluent (ML), 2021
- A.3.3 Monthly and annual flow summary statistics for Livermore Site sanitary sewer effluent (ML), 2021
- A.3.4 Monthly monitoring results for physical and chemical characteristics of the Livermore Site sanitary sewer effluent, 2021
- A.3.5 Monthly monitoring results for gross alpha, gross beta and tritium in Livermore Site sanitary sewer effluent, 2021
- A.3.6 Quarterly composite metals in Livermore Site sanitary sewer effluent, 2021

### A.4 Storm Water (Chapter 5)

- A.4.1 Industrial permit (2014-0057-DWQ) metals in storm water runoff ( $\mu\text{g}/\text{L}$ ), Livermore Site, 2021
- A.4.2 Industrial permit (2014-0057-DWQ) analytes other than metals in storm water runoff, Livermore Site, 2021
- A.4.3 Industrial permit (2014-0057-DWQ) metals in storm water runoff ( $\mu\text{g}/\text{L}$ ), Site 300, 2021
- A.4.4 Industrial permit (2014-0057-DWQ) analytes other than metals in storm water runoff, Site 300, 2021
- A.4.5 Building 851 Firing Table storm water runoff, and sediment monitoring and reporting, Site 300, 2021

### A.5 Livermore Site Groundwater (Chapter 5)

- A.5.1 Livermore Site metals surveillance wells, 2021
- A.5.2 Livermore Site Buildings 514 and 612 area surveillance wells, 2021
- A.5.3 Livermore Site near Decontamination and Waste Treatment Facility (DWTF) surveillance wells, 2021
- A.5.4 Livermore Site East Traffic Circle Landfill surveillance wells, 2021
- A.5.5 Livermore Site Tritium Facility surveillance wells, 2021
- A.5.6 Livermore Site perimeter off-site surveillance wells, 2021
- A.5.7 Livermore Site perimeter on-site surveillance wells, 2021
- A.5.8 Livermore Site near the National Ignition Facility (NIF) surveillance wells, 2021
- A.5.9 Livermore Site Taxi Strip surveillance wells, 2021
- A.5.10 Livermore Site background surveillance wells, 2021
- A.5.11 Tritium activity in Livermore Valley wells, 2021

### A.6 Site 300 Groundwater (Chapter 5)

- A.6.1 Site 300 annually monitored off-site surveillance wells, 2021

- A.6.2 Site 300 off-site surveillance well CARNRW1, 2021
- A.6.3 Site 300 off-site surveillance well CARNRW2, 2021
- A.6.4 Site 300 off-site surveillance well CDF1, 2021
- A.6.5 Site 300 off-site surveillance well CON1, 2021
- A.6.6 Site 300 off-site surveillance well CON2, 2021
- A.6.7 Elk Ravine surveillance wells, Site 300, 2021
- A.6.8 Site 300 off-site surveillance well GALLO1, 2021
- A.6.9 Site 300 potable supply well 18, 2021
- A.6.10 Site 300 potable supply well 20, 2021

**A.7 Other Water (Chapter 5)**

- A.7.1 Tritium activity (Bq/L) in rainwater samples collected in the vicinity of the Livermore Site and Site 300, 2021
- A.7.2 Radioactivity (Bq/L) in surface and drinking water in Livermore Valley, 2021

**A.8 Soil (Chapter 6)**

- A.8.1 Radionuclides in soils in the Livermore Valley, 2021
- A.8.2 Radionuclides and beryllium in soil at Site 300, 2021

**A.9 Ambient Radiation (Chapter 6)**

- A.9.1 Calculated dose (mSv) from TLD environmental radiation measurements, Livermore Site perimeter, 2021
- A.9.2 Calculated dose (mSv) from TLD environmental radiation measurements, Livermore Valley, 2021
- A.9.3 Calculated dose (mSv) from TLD environmental radiation measurements, Site 300 vicinity, 2021
- A.9.4 Calculated dose (mSv) from TLD environmental radiation measurements, Site 300 perimeter, 2021
- A.9.5 Quarterly concentrations of tritium in plant water (Bq/L) for the Livermore Site, Livermore Valley, and Site 300, 2021

This page is intentionally left blank.