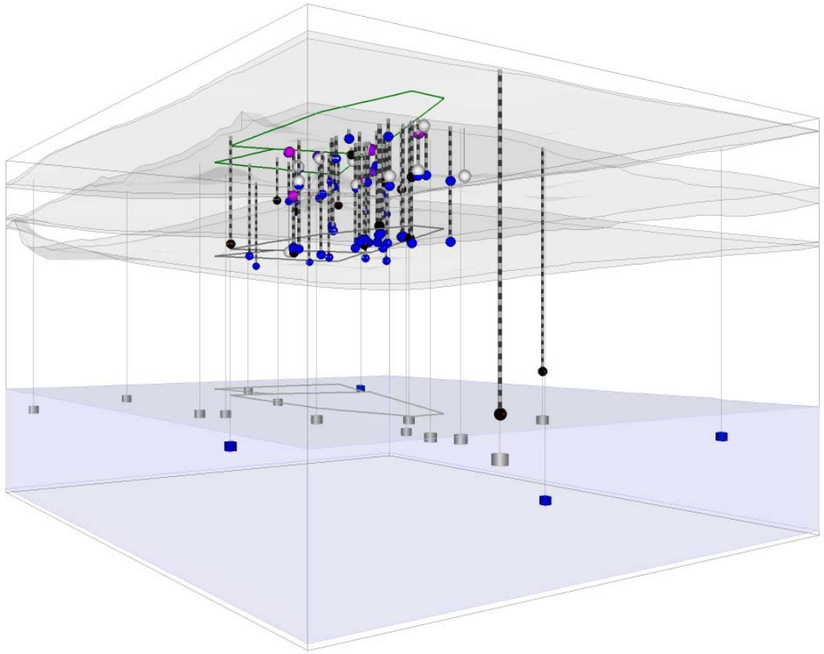
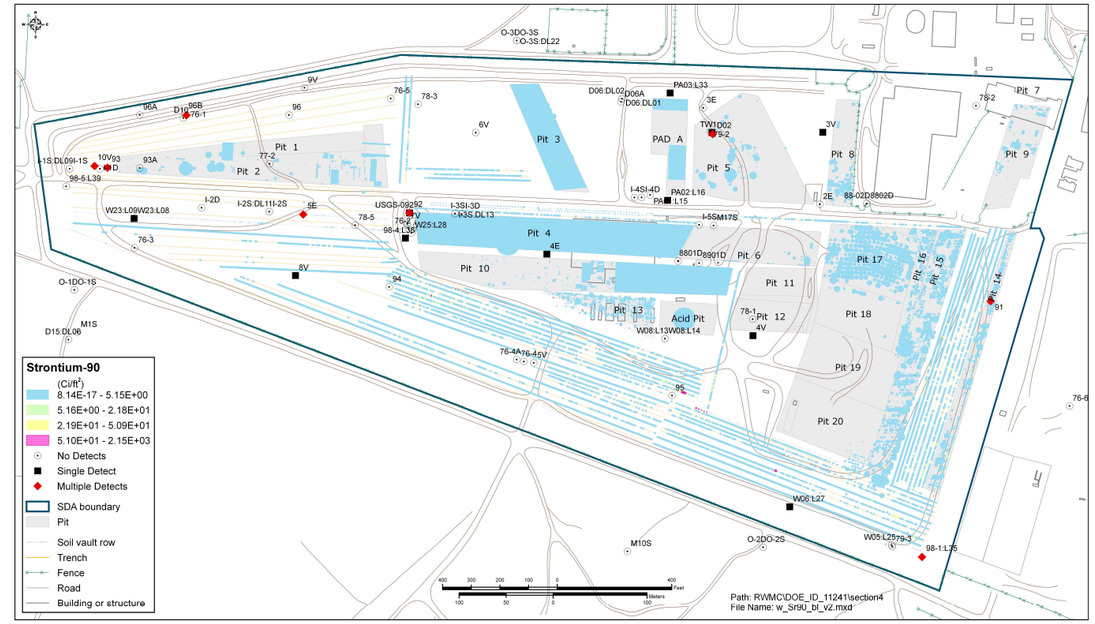
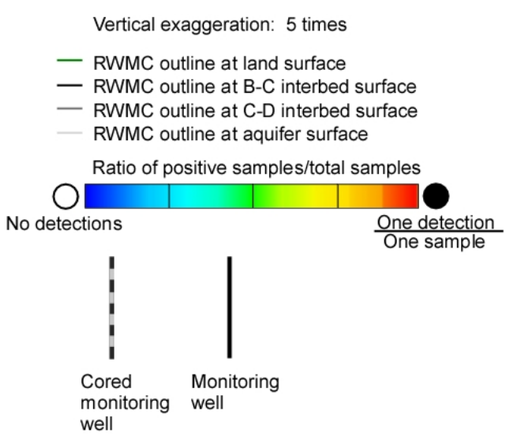






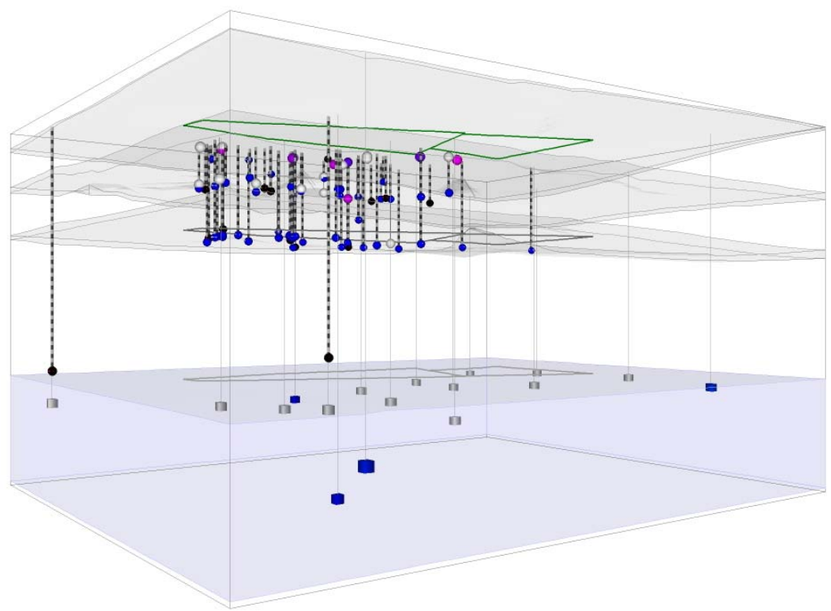


Figure 4-104. Plan view and three-dimensional views of strontium-90 detections in vadose zone core, lysimeters, and the aquifer.

Waste streams containing strontium-90.

Waste Stream Code	Portion in Waste Stream (%)	Inventory (Ci)	Waste Stream Description
INTEC-MOD-2H	31.3	4.26E+04	Leached Vycor glass
TRA-632-2N	12.7	1.73E+04	Hot Cell waste
Materials and Fuels Complex	14.4	1.96E+04	Other Materials and Fuels Complex waste (see Table 4-4)
RTC	11.6	1.58E+04	Other RTC waste (see Table 4-4)
INTEC	14.3	1.95E+04	Other INTEC waste (see Table 4-4)
INL Site	15.7	2.16E+04	Other INL Site-generated waste (see Table 4-4)
Total Sr-90	**100.0**	**1.36E+05**	

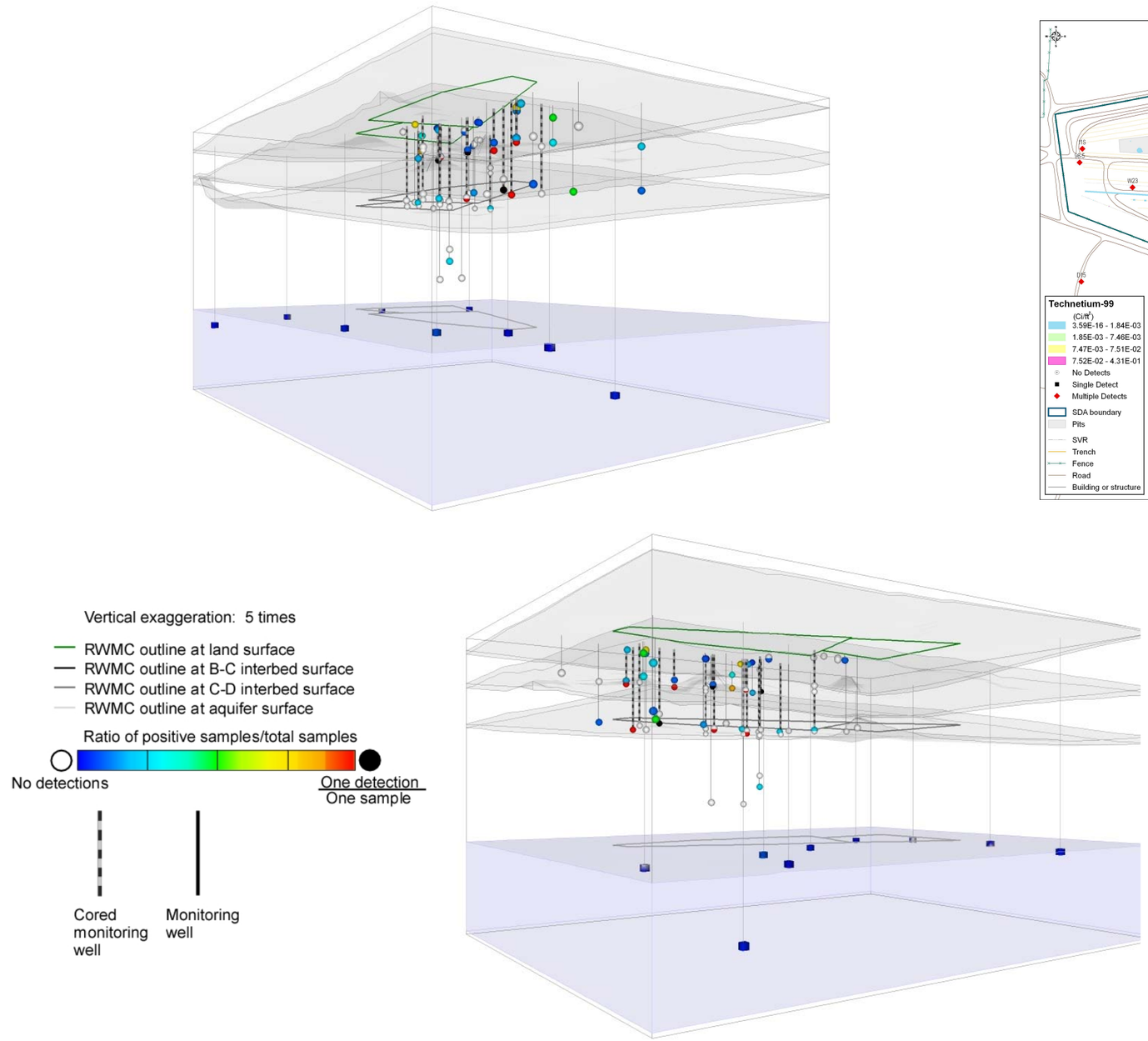
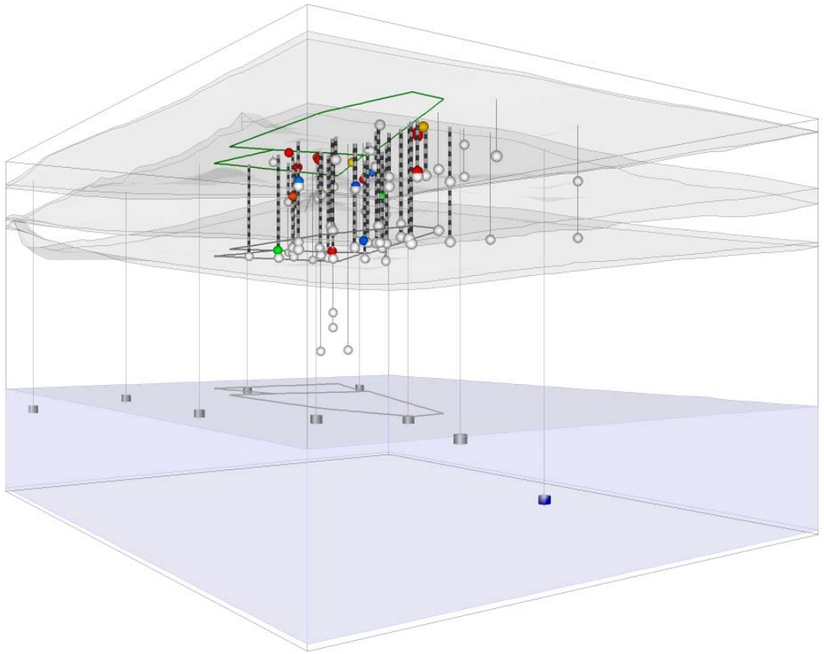
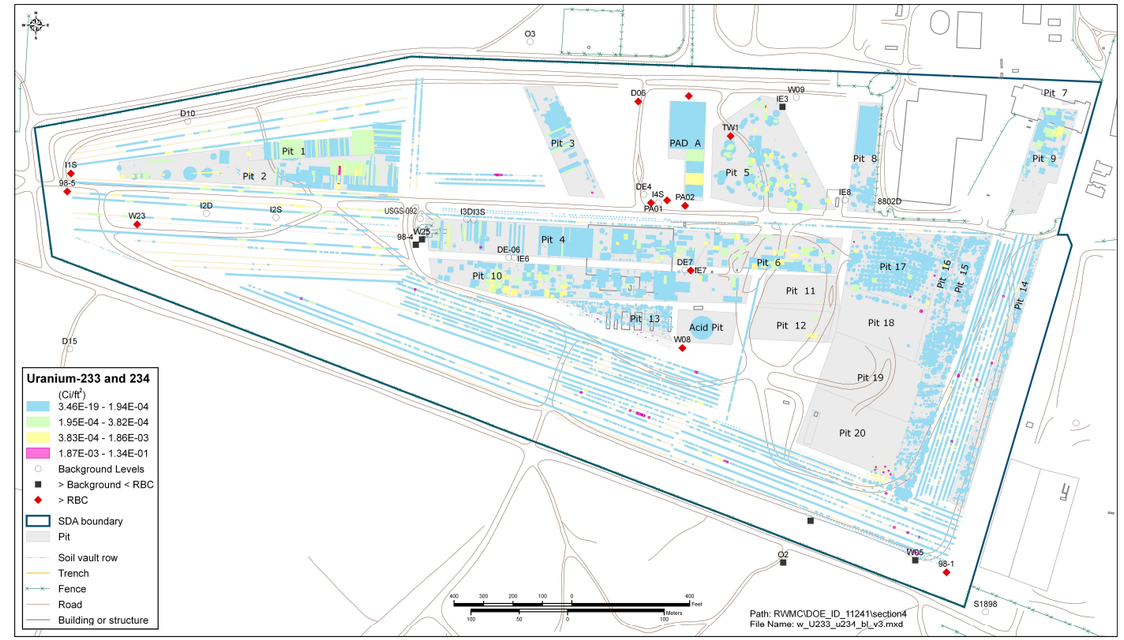


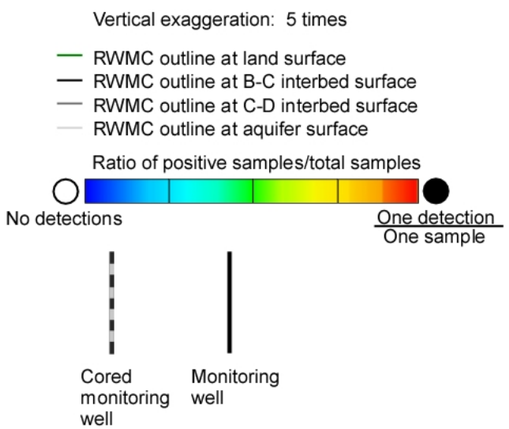
Figure 4-105. Plan view and three-dimensional views of technetium-99 detections in vadose zone core, lysimeters, and the aquifer.

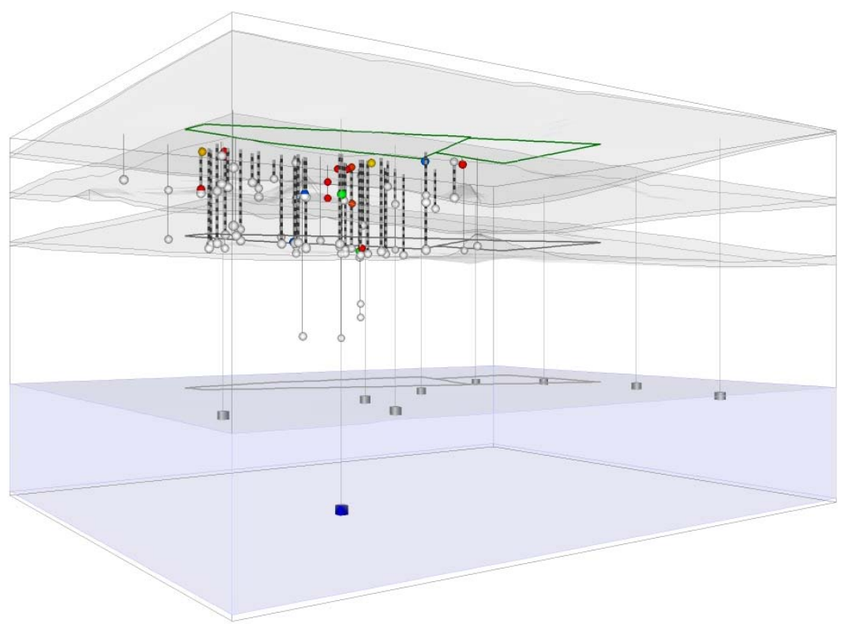
Waste streams containing technetium-99.

Waste Stream Code	Portion in Waste Stream (%)	Inventory (Ci)	Waste Stream Description
ANL-MOD-1H	16.3	6.88E+00	Irradiated subassembly hardware (1977 to 1983)
INTEC-MOD-2H	15.8	6.67E+00	Leached Vycor glass
ANL-MOD-1R	14.8	6.24E+00	Irradiated subassembly hardware (1984 to 1993)
TRA-603-1N	8.0	3.37E+00	Resin
RTC	11.8	4.98E+00	Other RTC waste (see Table 4-4)
Materials and Fuels Complex	7.8	3.30E+00	Other Materials and Fuels Complex waste (see Table 4-4)
INTEC	9.1	3.86E+00	Other INTEC waste (see Table 4-4)
INL Site	16.4	6.96E+00	Other INL Site-generated waste (see Table 4-4)
Total Tc-99	**100.0**	**4.23E+01**	









Sources of uranium-233 and -234.

U-233			U-234		
Generator	Inventory (Ci)	Portion from Generator (%)	Generator	Inventory (Ci)	Portion from Generator (%)
Reactor Technology Complex	6.01E-01	28.4	Rocky Flats Plant	4.06E+01	63.70
Auxiliary Reactor Area	6.00E-01	28.4	Off-INL	8.60E+00	13.40
Rocky Flats Plant	5.40E-01	25.5	TAN	4.16E+00	6.50
TAN	3.51E-01	16.6	INTEC	1.56E+00	2.40
Miscellaneous	2.43E-02	1.1	Materials and Fuels Complex	2.54E+00	4.00
Total U-233	**2.12E+00**	**100.0**	Auxiliary Reactor Area	6.38E-01	1.00
			Miscellaneous	5.73E+00	9.00
			Total U-234	**6.39E+01**	**100.00**

Note: See Table 4-4 for details.

Figure 4-106. Plan view and three-dimensional views of uranium-233 and -234 detections in vadose zone core, lysimeters, and the aquifer.