

## Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Miyagi Prefecture 1/2 >

(Data summarized on December 12)

Place of Sampling (Place No.)	Offshore of Minamisanriku (T-MG0)						Ishinomaki Bay (T-MG1)						② Density Limit Specified by the Reactor Regulation (Bq/L)  (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Oct 22, 2012 9:20 AM		Oct 22, 2012 9:40 AM		Oct 22, 2012 9:30 AM		Oct 25, 2012 10:11 AM		Oct 25, 2012 10:08 AM		Oct 25, 2012 10:02 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	0.012	0.00	0.0093	0.00	0.0079	0.00	60
Cs-137 (Approx. 30 years)	0.0027	0.00	0.0019	0.00	0.0021	0.00	0.019	0.00	0.014	0.00	0.015	0.00	90

Place of Sampling (Place No.)	Offshore of Kinkasan East (T-MG2)						Offshore of Kinkasan South (T-MG3)						② Density Limit Specified by the Reactor Regulation (Bq/L)  (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Oct 25, 2012 8:01 AM		Oct 25, 2012 8:08 AM		Oct 25, 2012 7:54 AM		Oct 25, 2012 8:48 AM		Oct 25, 2012 8:53 AM		Oct 25, 2012 8:44 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Cs-134 (Approx. 2 years)	ND	-	ND	-	ND	-	0.0089	0.00	ND	-	ND	-	60
Cs-137 (Approx. 30 years)	0.0029	0.00	0.0021	0.00	0.0019	0.00	0.015	0.00	0.0025	0.00	0.0030	0.00	90

\* The density specified by the Reactor Regulation is converted from Bq/cm<sup>3</sup> to Bq/L.

\* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

\* "ND" indicates that the measurement result is below the detection limit.

Cs-134: Approx.0.0019Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted. (Since the announcement on June 15, 2012.)

\* Analyzed by: Japan Chemical Analysis Center

## Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore of Miyagi Prefecture 2/2 >

(Data summarized on December 12)

Place of Sampling (Place No.)	Offshore of Shichigahama (T-MG4)						Central Area of Sendai Bay (T-MG5)						② Density Limit Specified by the Reactor Regulation (Bq/L)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Oct 25, 2012 10:46 AM		Oct 25, 2012 10:40 AM		Oct 25, 2012 10:32 AM		Oct 25, 2012 9:51 AM		Oct 25, 2012 9:43 AM		Oct 25, 2012 9:28 AM		(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Cs-134 (Approx. 2 years)	0.012	0.00	0.012	0.00	0.012	0.00	0.0038	0.00	0.0034	0.00	0.0059	0.00	
Cs-137 (Approx. 30 years)	0.020	0.00	0.022	0.00	0.021	0.00	0.0064	0.00	0.0066	0.00	0.0083	0.00	90

Place of Sampling (Place No.)	Offshore of Abukuma River (T-MG6)						(Data not available for this location)						② Density Limit Specified by the Reactor Regulation (Bq/L)
	Upper Layer		Middle Layer		Lower Layer		Upper Layer		Middle Layer		Lower Layer		
Time of Sampling	Oct 25, 2012 11:59 AM		Oct 25, 2012 11:53 AM		Oct 25, 2012 11:44 AM								(The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Cs-134 (Approx. 2 years)	0.0069	0.00	0.0060	0.00	0.0077	0.00							
Cs-137 (Approx. 30 years)	0.013	0.00	0.012	0.00	0.012	0.00							90

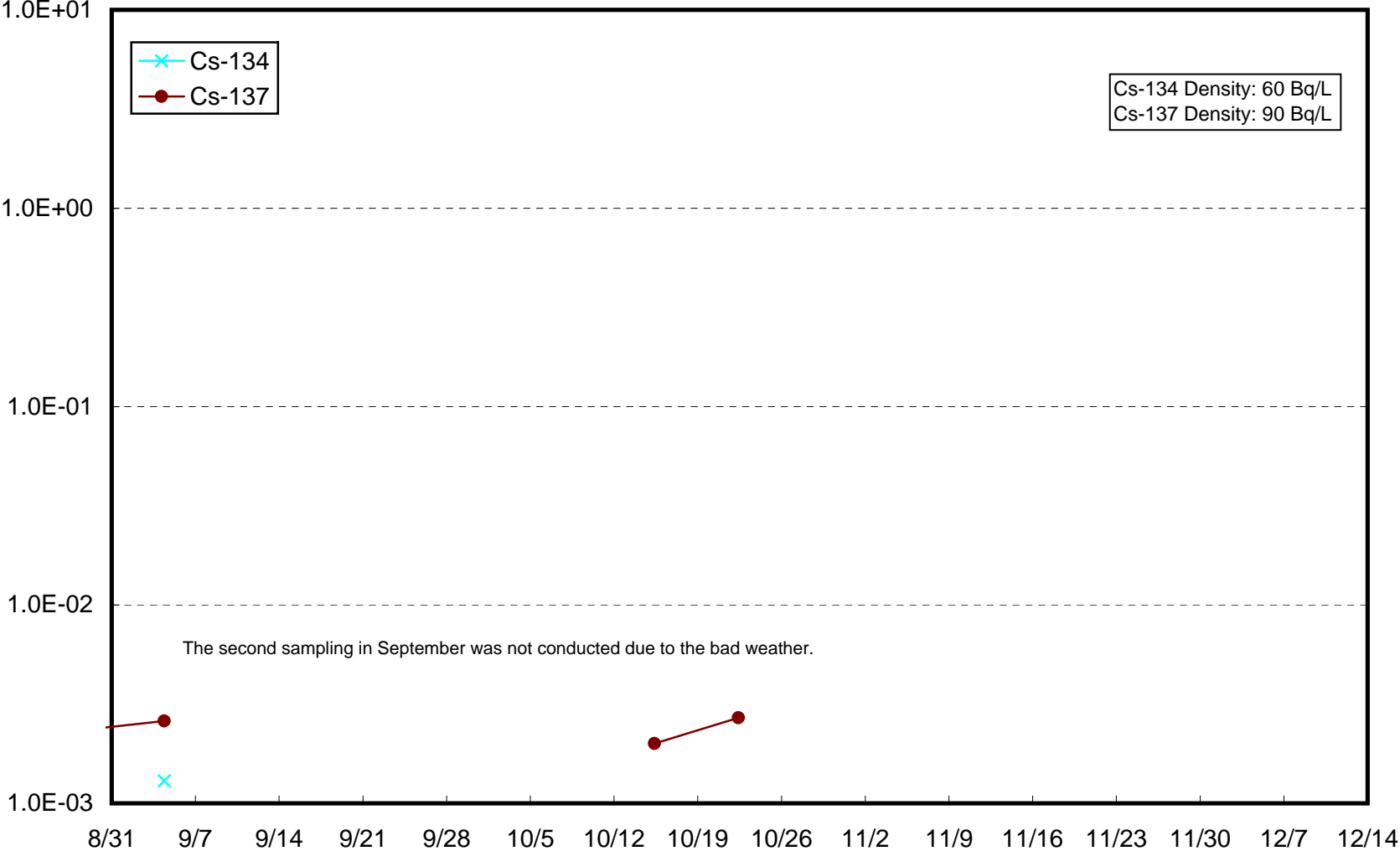
\* The density specified by the Reactor Regulation is converted from Bq/cm<sup>3</sup> to Bq/L.

\* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

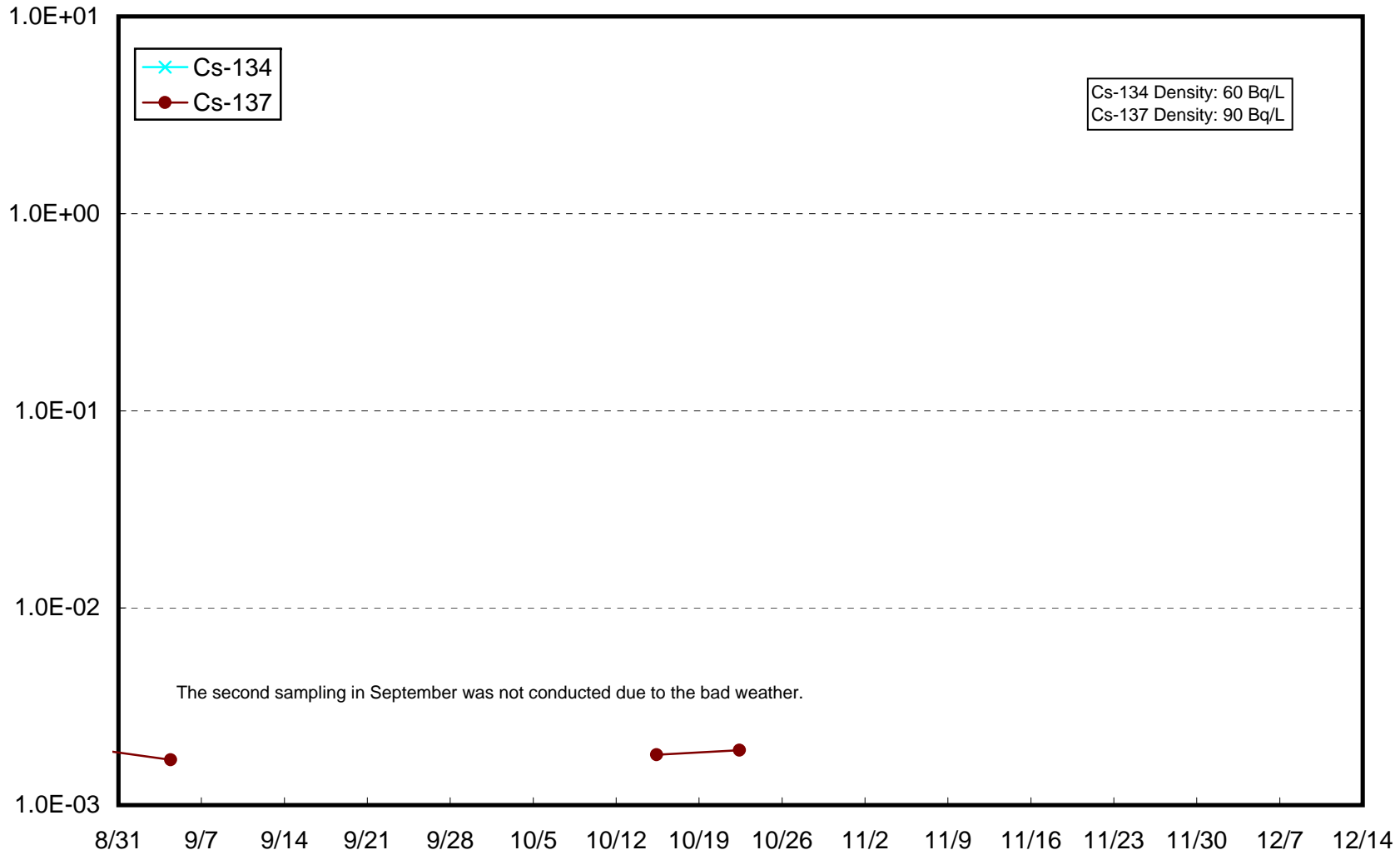
\* Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted. (Since the announcement on June 15, 2012.)

\* Analyzed by: Japan Chemical Analysis Center

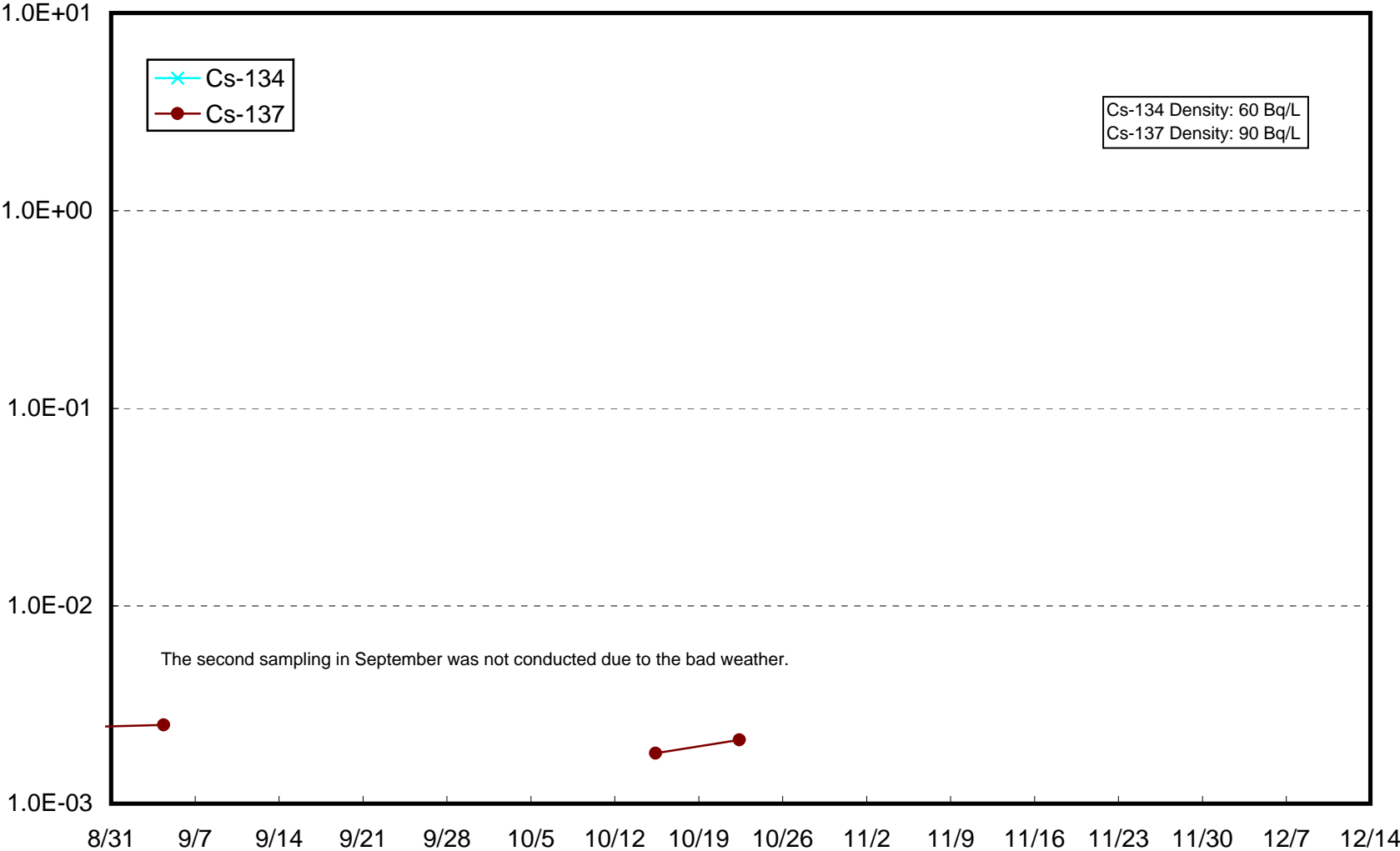
Radioactivity Density of the Seawater at Offshore of Minamisanriku (T-MG0) Upper Layer (Bq/L)



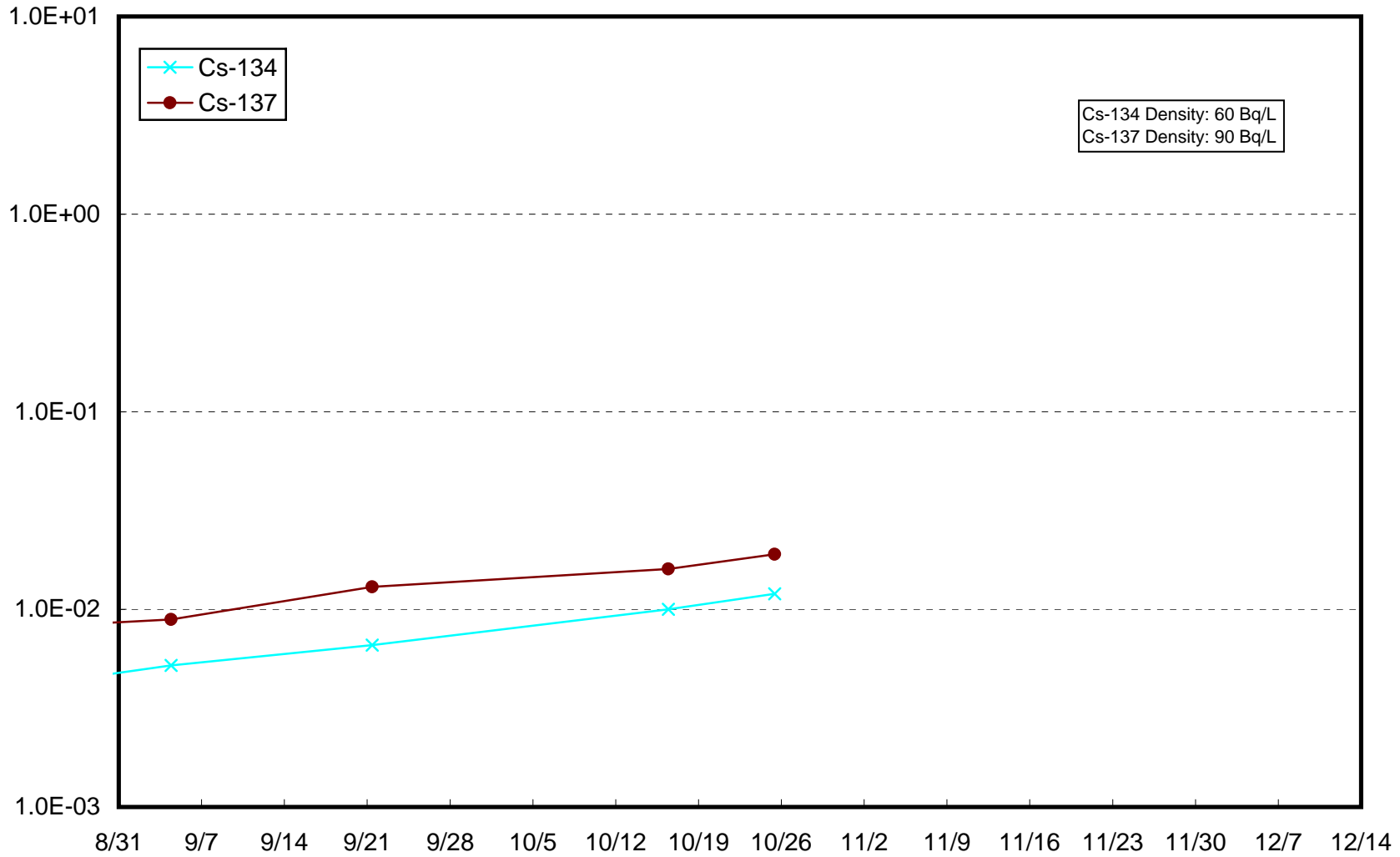
Radioactivity Density of the Seawater at Offshore of Minamisanriku (T-MG0) Middle Layer (Bq/L)



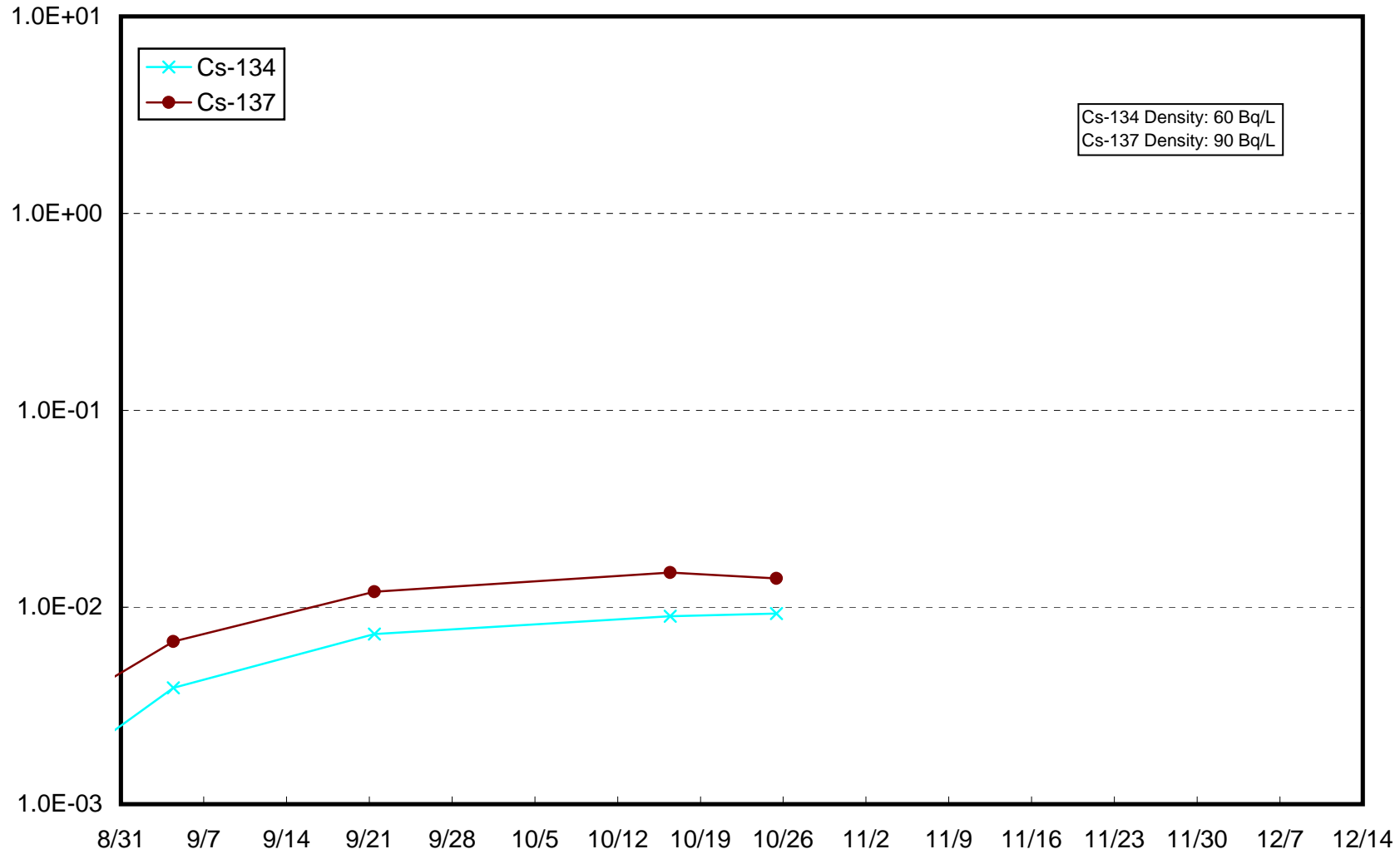
Radioactivity Density of the Seawater at Offshore of Minamisanriku (T-MG0) Lower Layer (Bq/L)



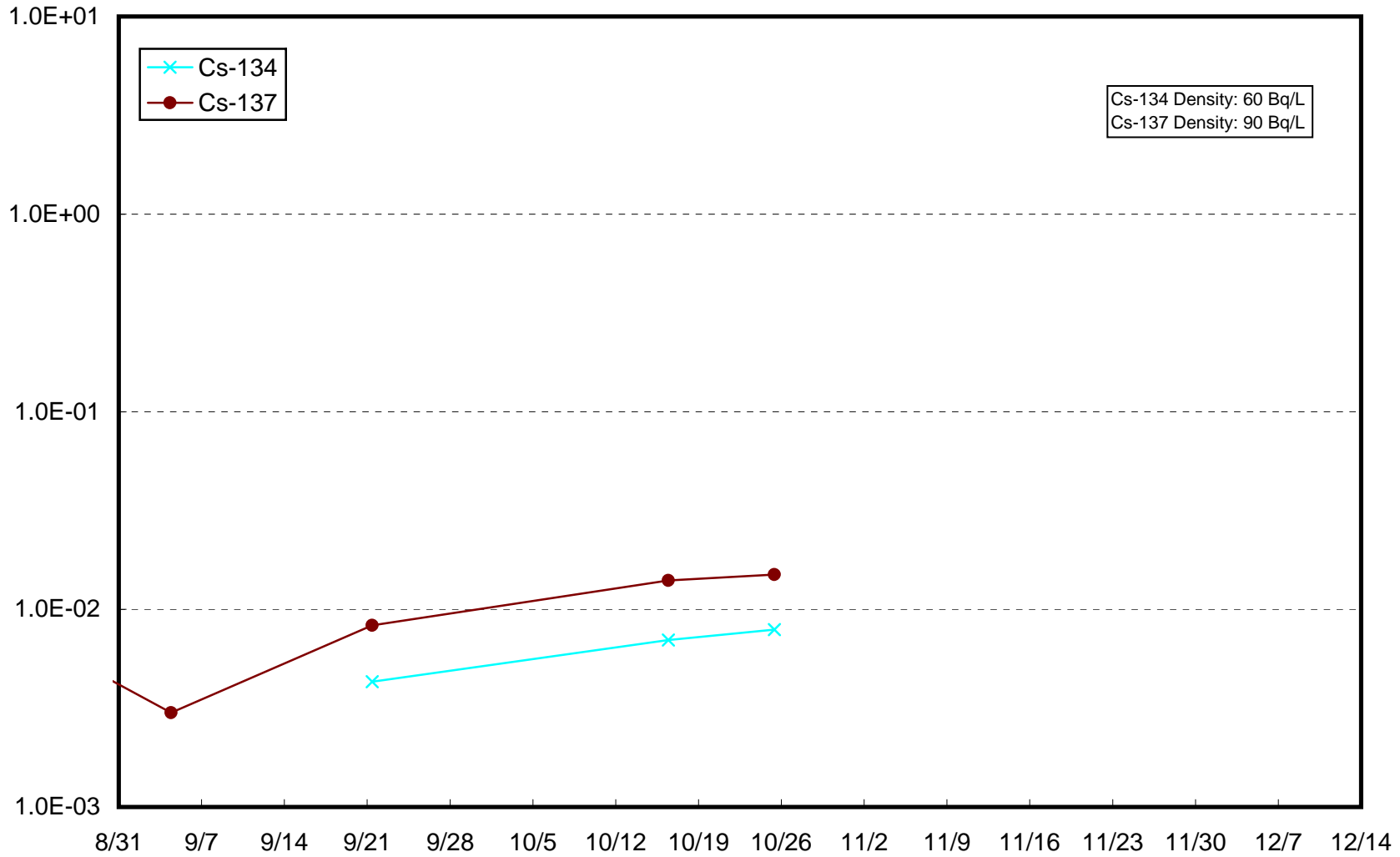
Radioactivity Density of the Seawater in Ishinomaki Bay (T-MG1) Upper Layer (Bq/L)



Radioactivity Density of the Seawater in Ishinomaki Bay (T-MG1) Middle Layer (Bq/L)

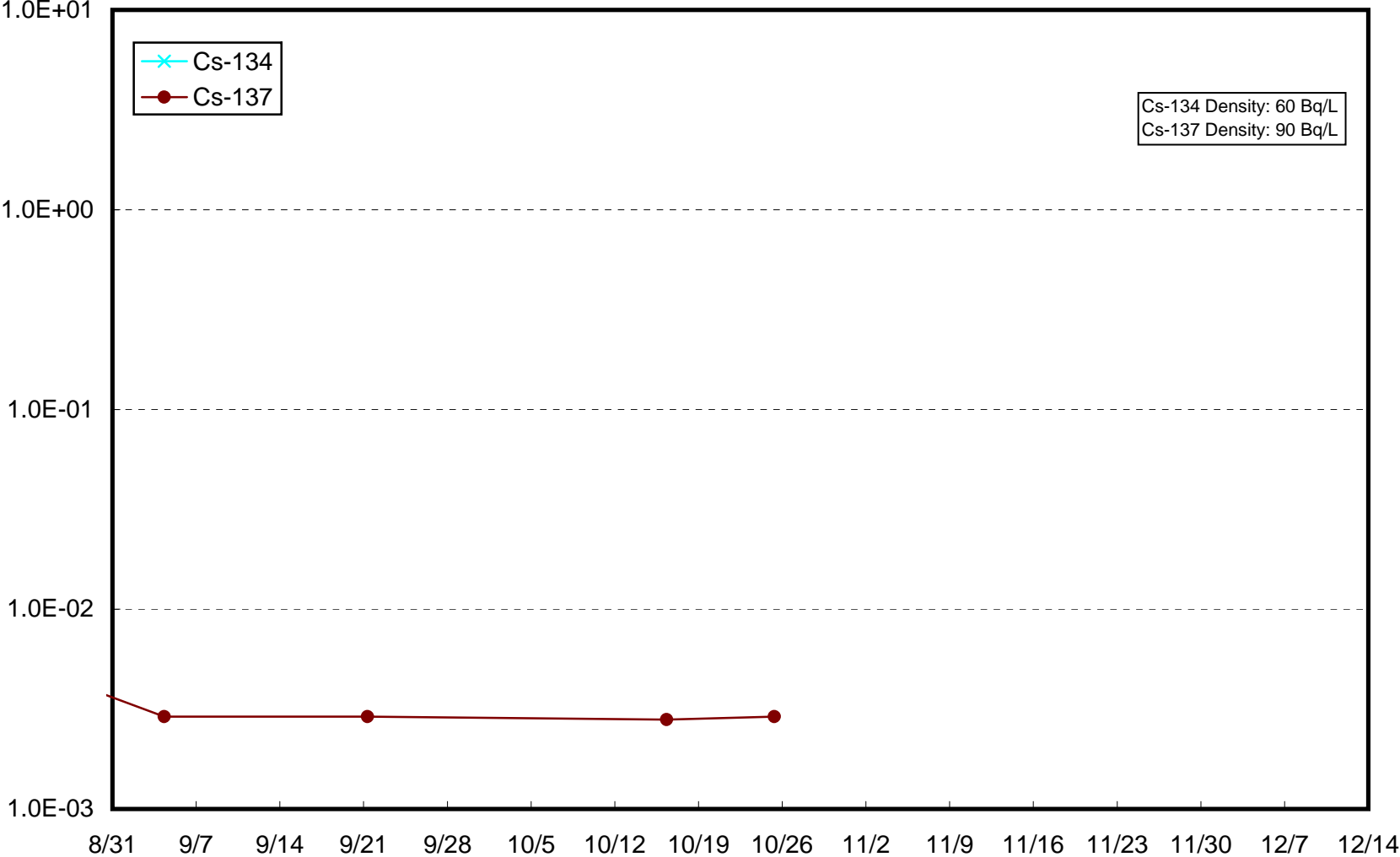


Radioactivity Density of the Seawater in Ishinomaki Bay (T-MG1) Lower Layer (Bq/L)

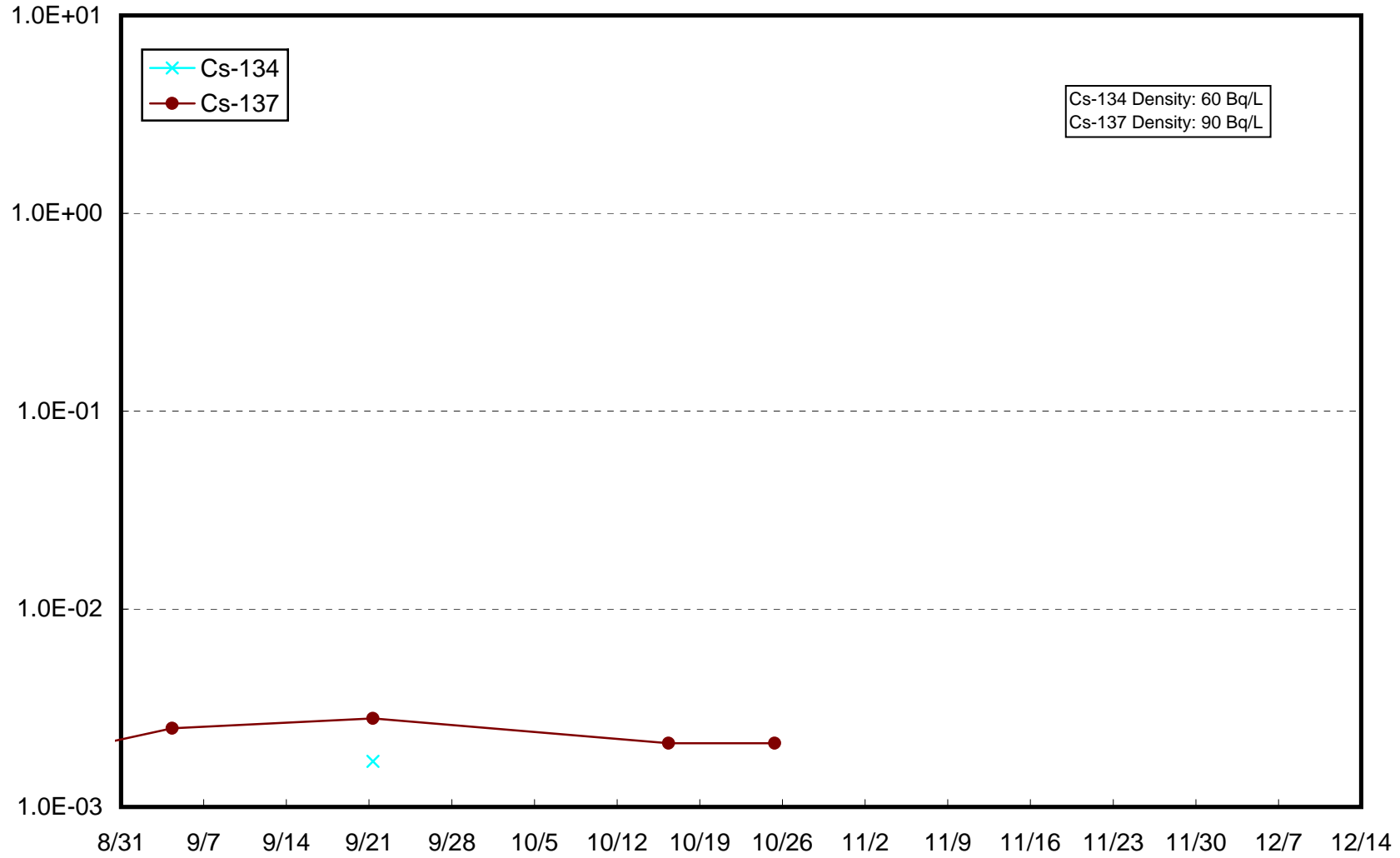




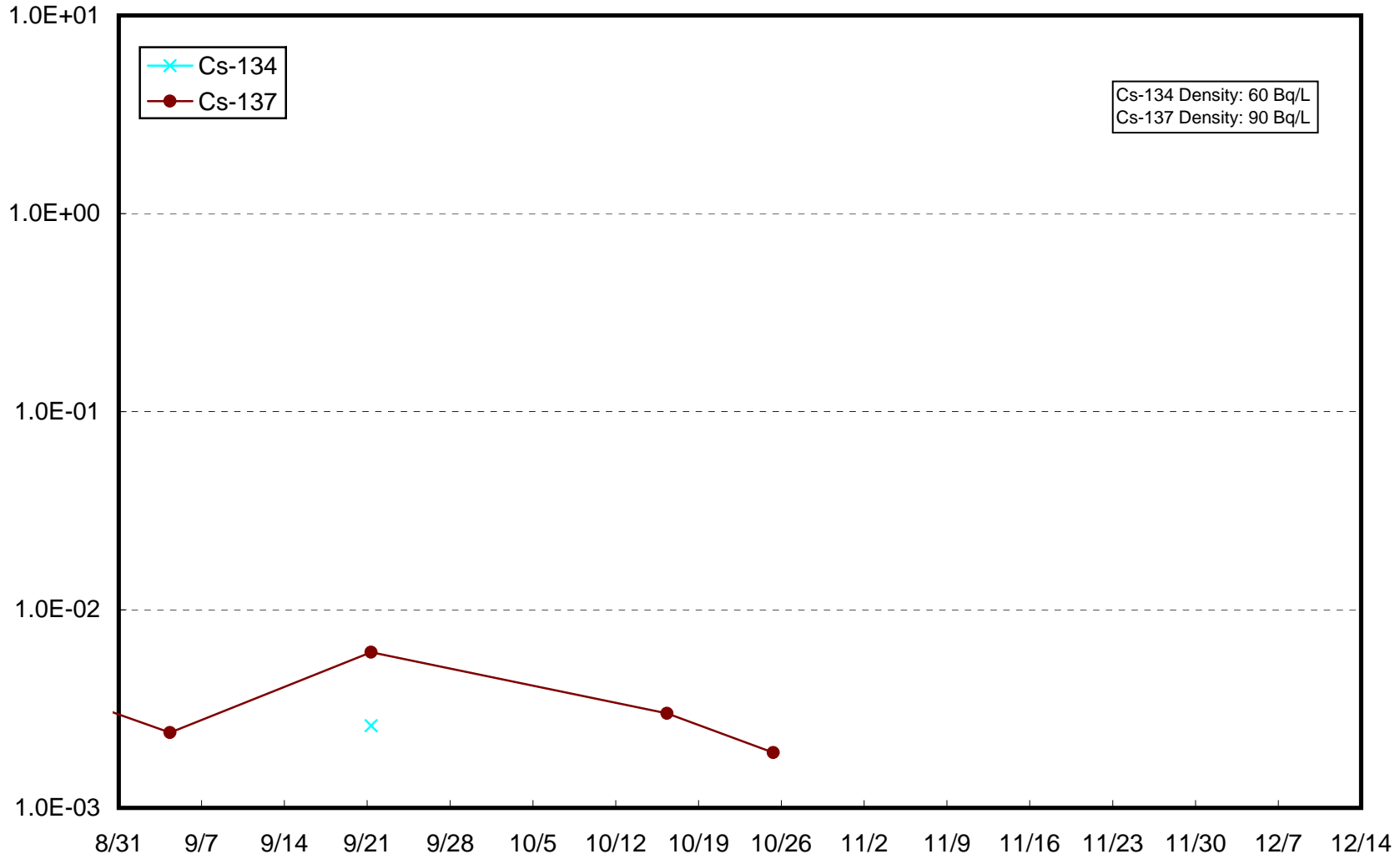
Radioactivity Density of the Seawater at Offshore of Kinkasan East (T-MG2) Upper Layer (Bq/L)



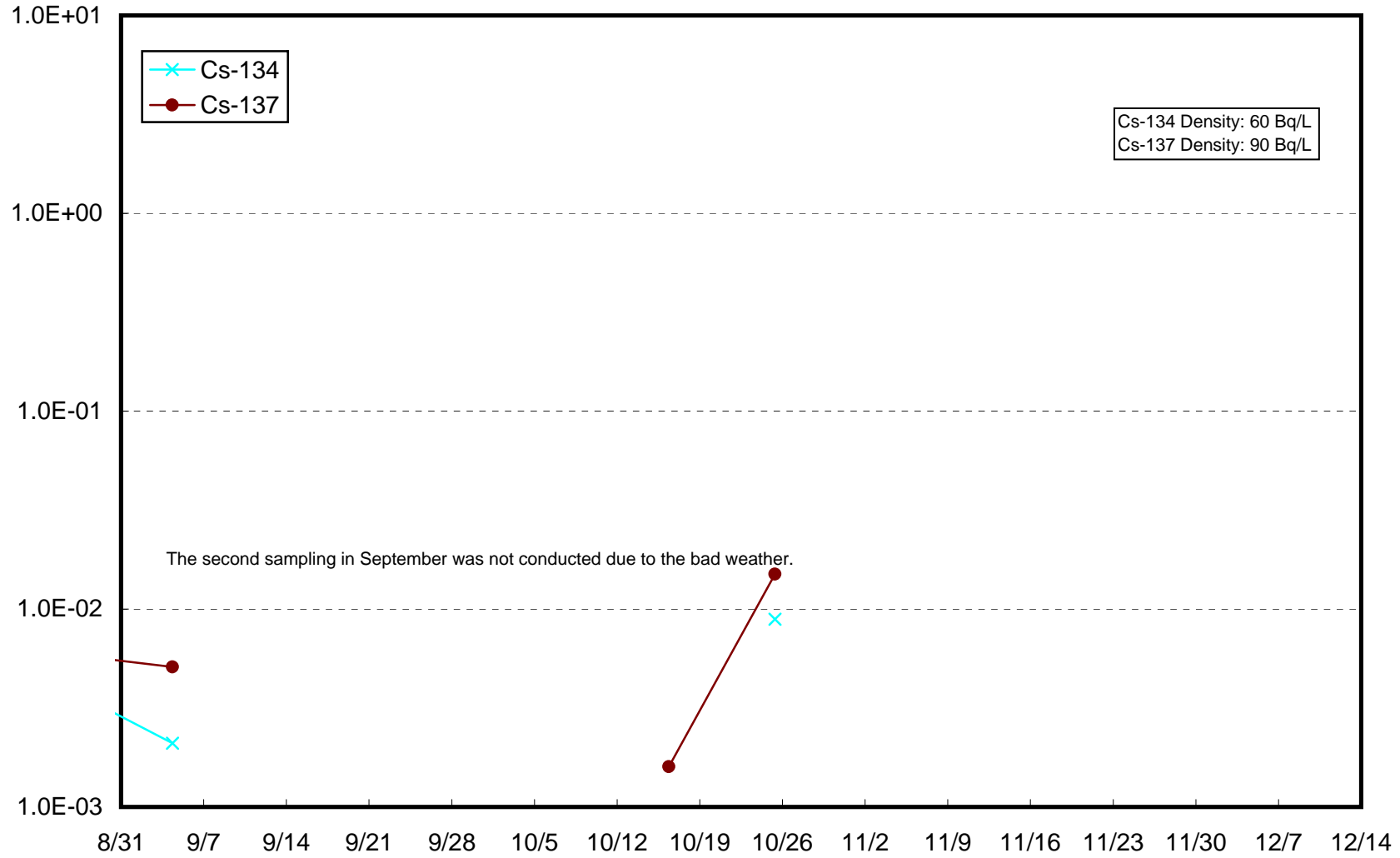
Radioactivity Density of the Seawater at Offshore of Kinkasan East (T-MG2) Middle Layer (Bq/L)



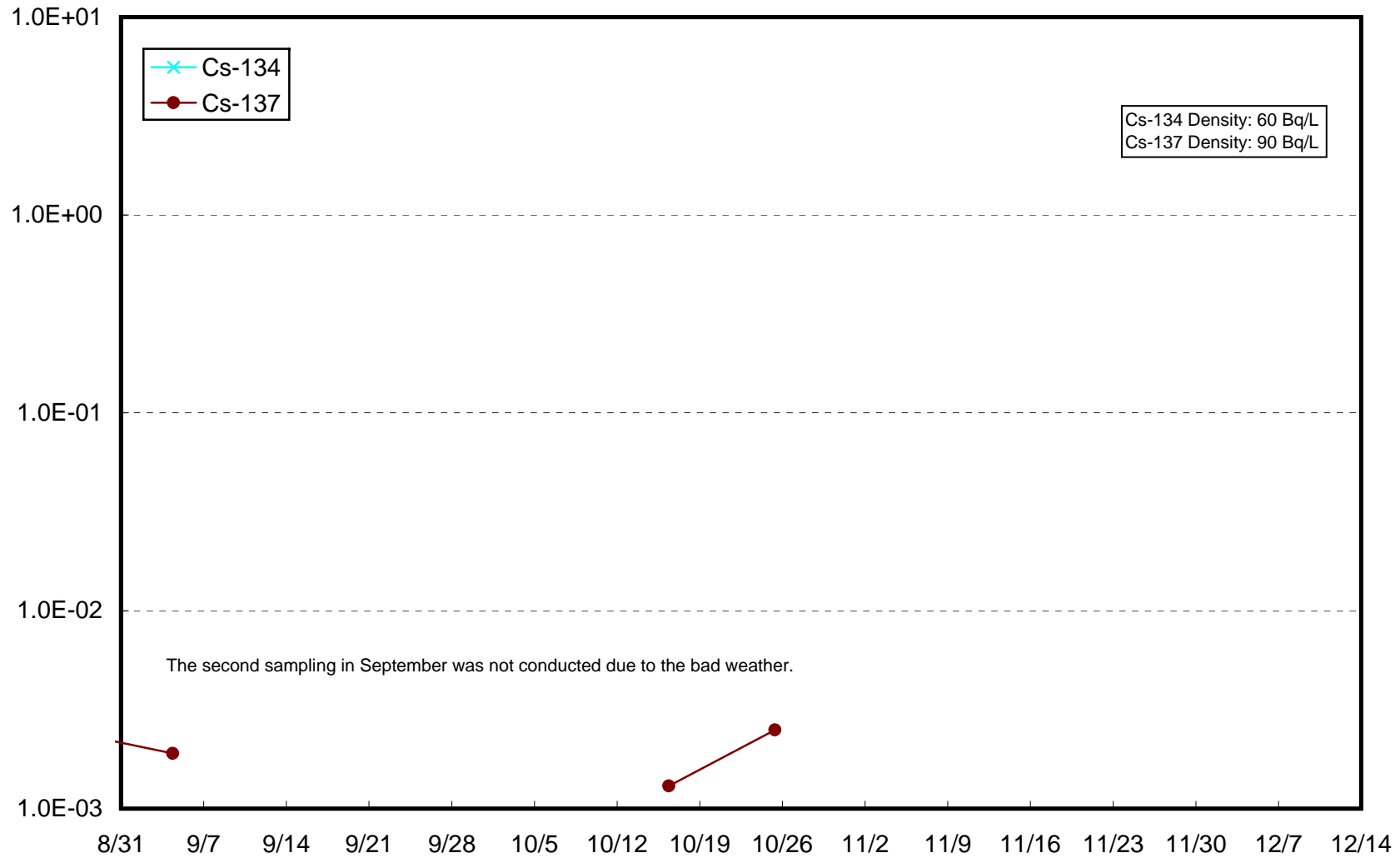
Radioactivity Density of the Seawater at Offshore of Kinkasan East (T-MG2) Lower Layer (Bq/L)



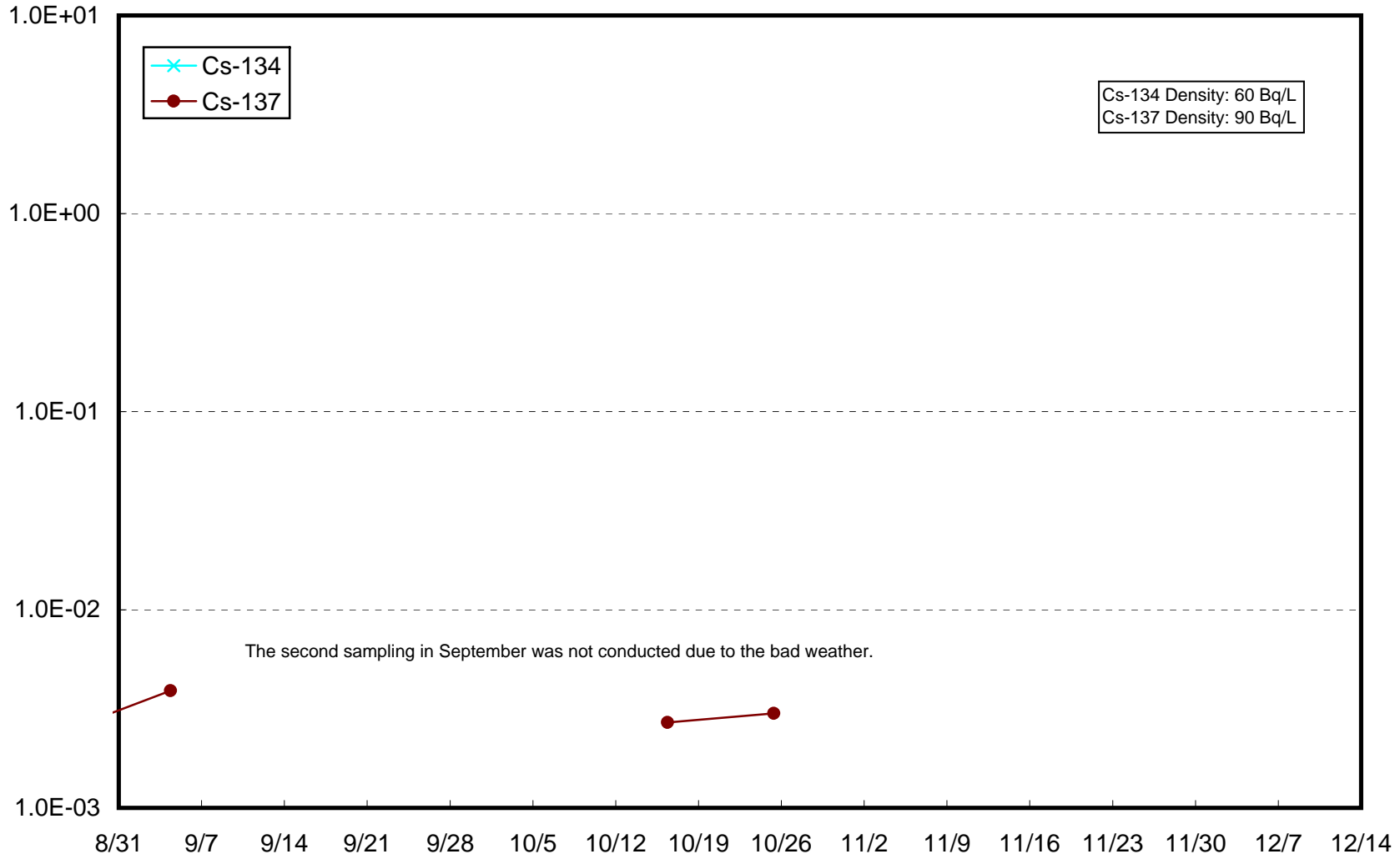
Radioactivity Density of the Seawater at Offshore of Kinkasan South (T-MG3) Upper Layer (Bq/L)



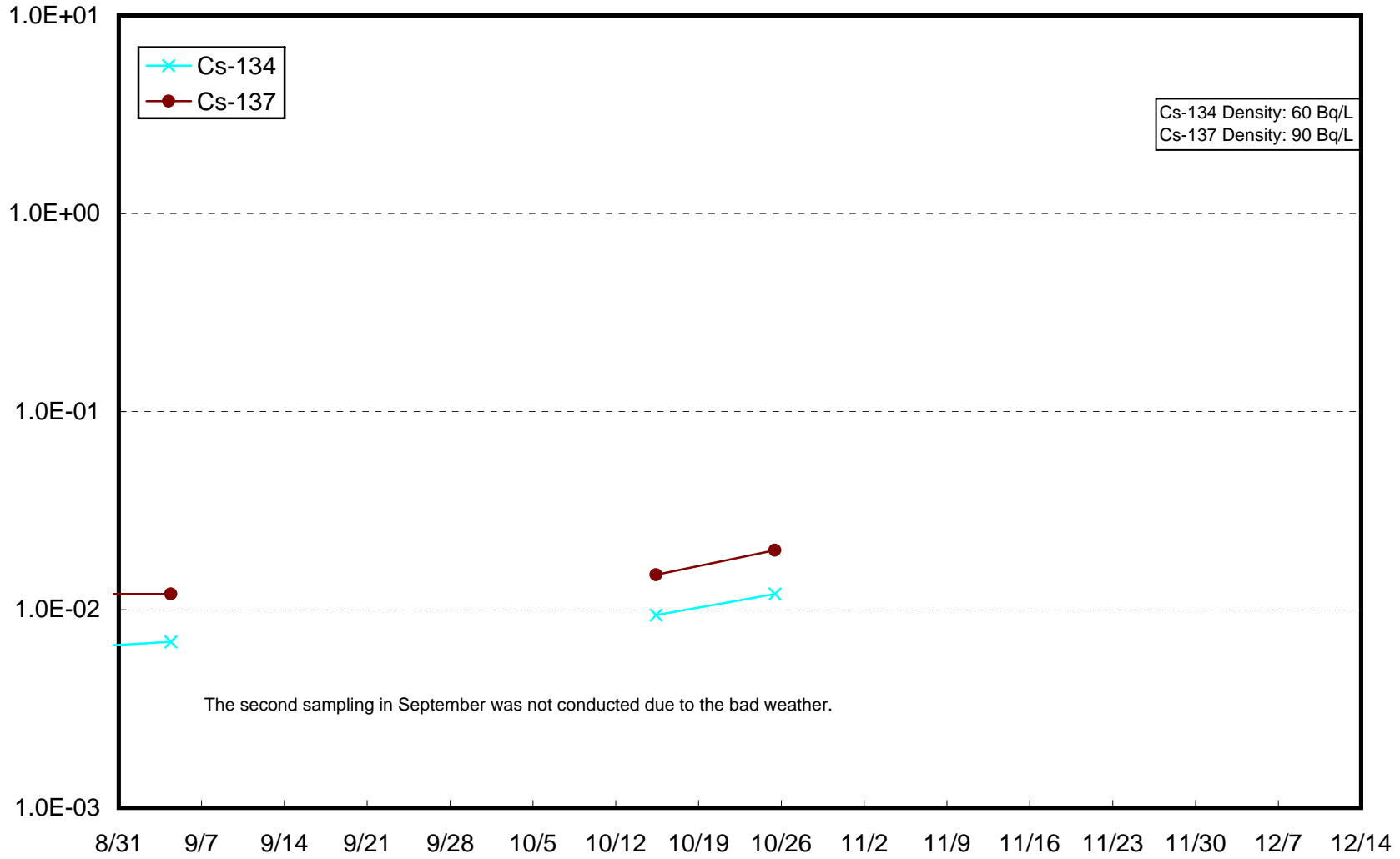
Radioactivity Density of the Seawater at Offshore of Kinkasan South (T-MG3) Middle Layer (Bq/L)



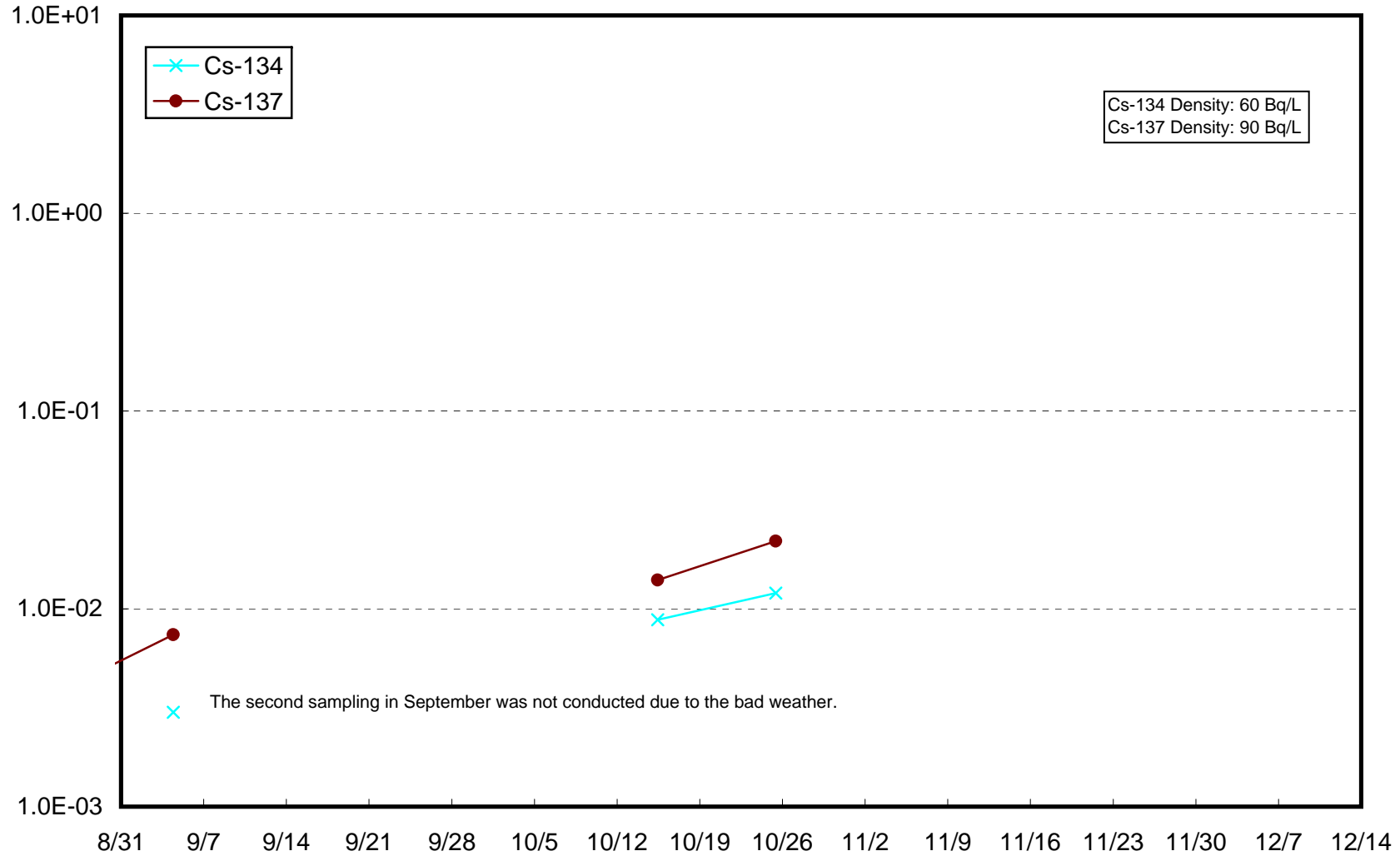
Radioactivity Density of the Seawater at Offshore of Kinkasan South (T-MG3) Lower Layer (Bq/L)



Radioactivity Density of the Seawater at Offshore of Shichigahama (T-MG4) Upper Layer (Bq/L)

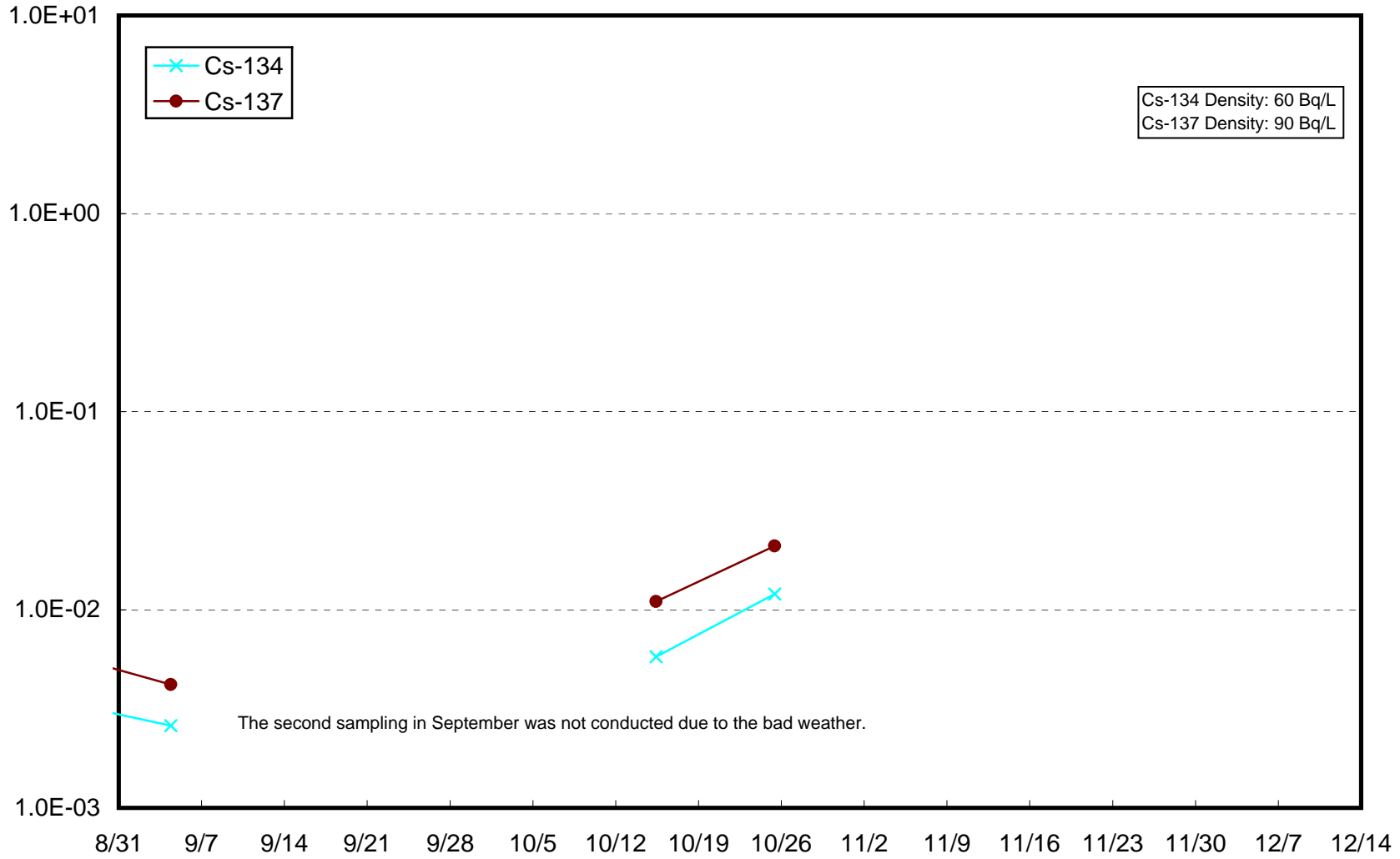


Radioactivity Density of the Seawater at Offshore of Shichigahama (T-MG4) Middle Layer (Bq/L)

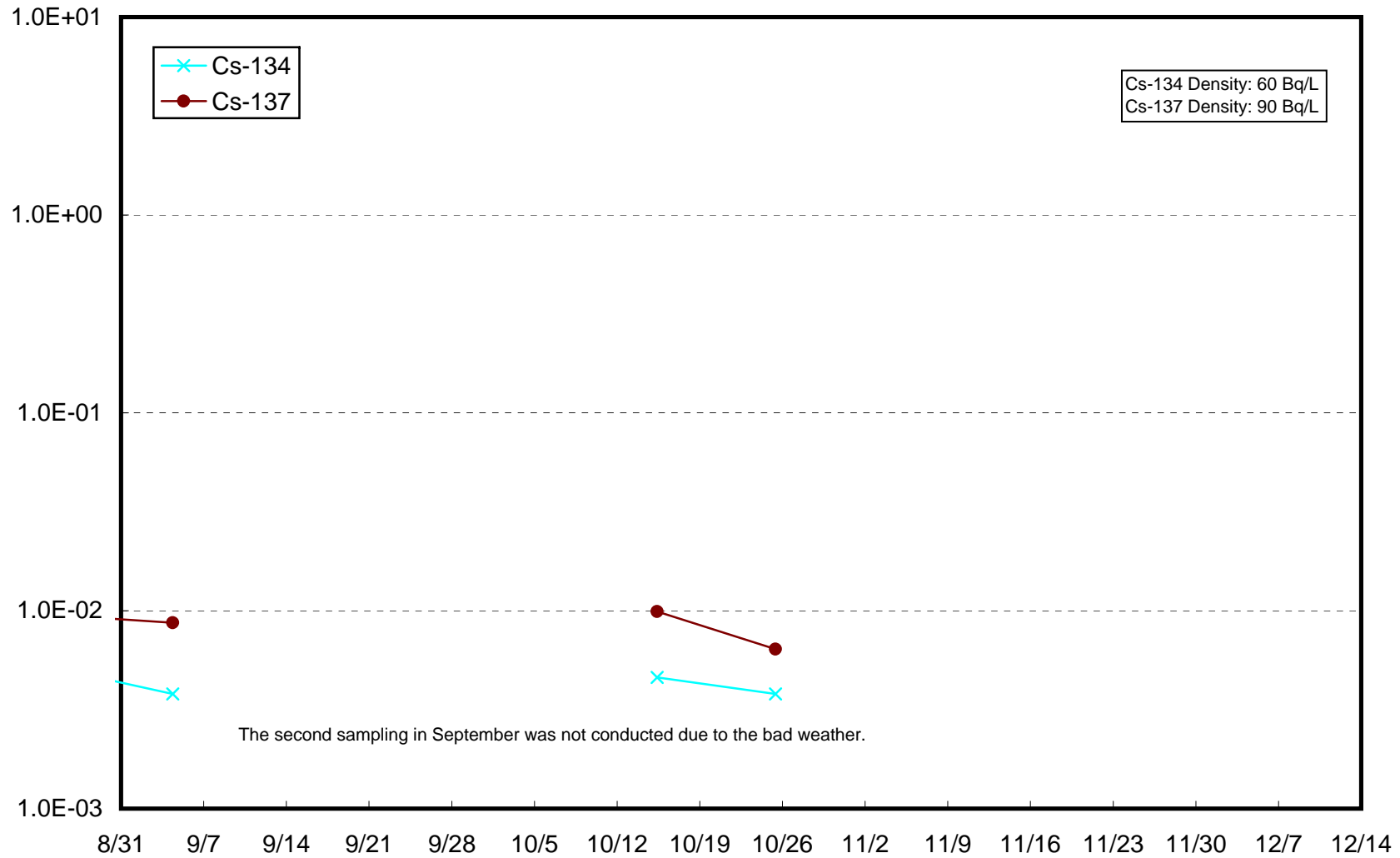




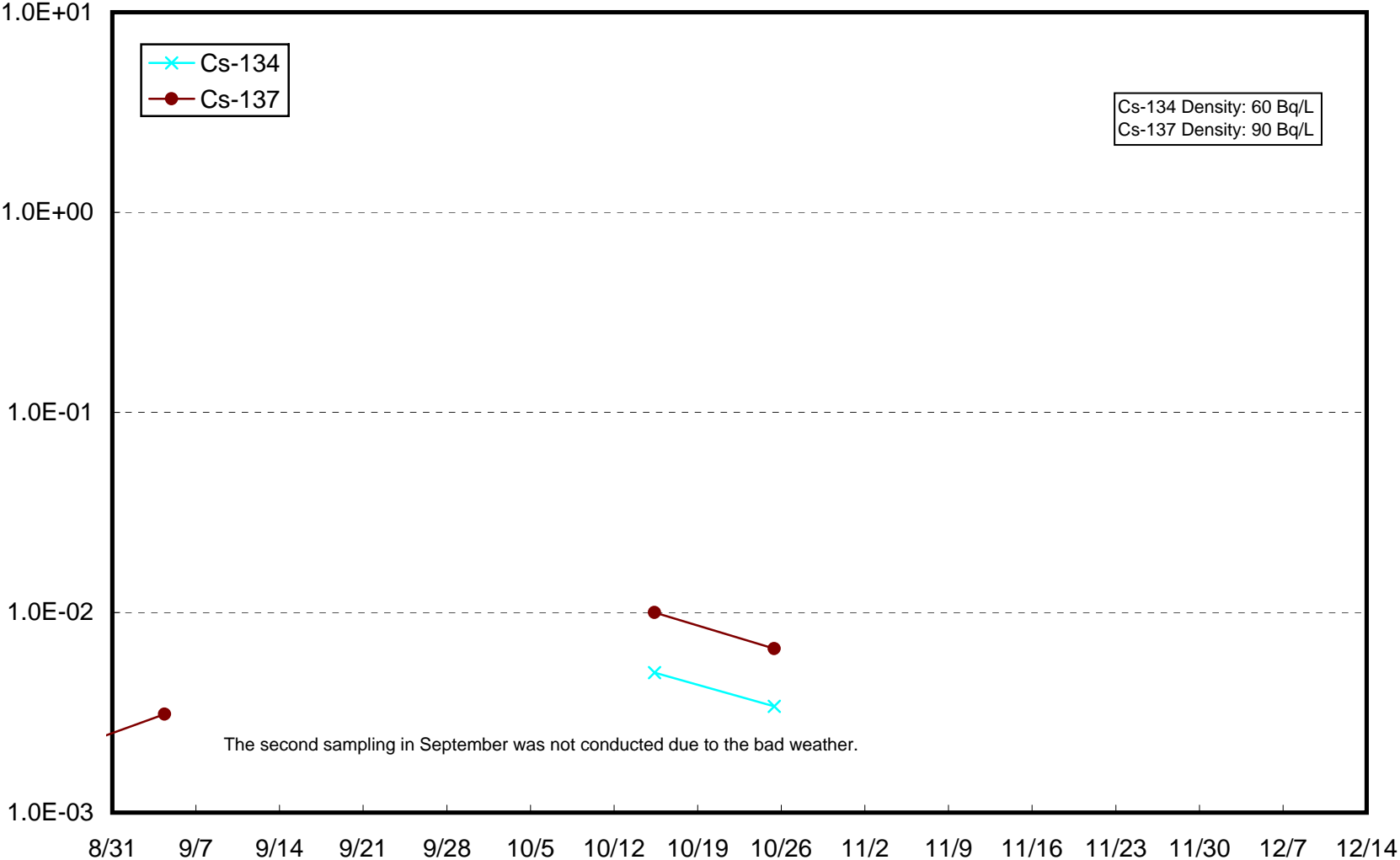
Radioactivity Density of the Seawater at Offshore of Shichigahama (T-MG4) Lower Layer (Bq/L)



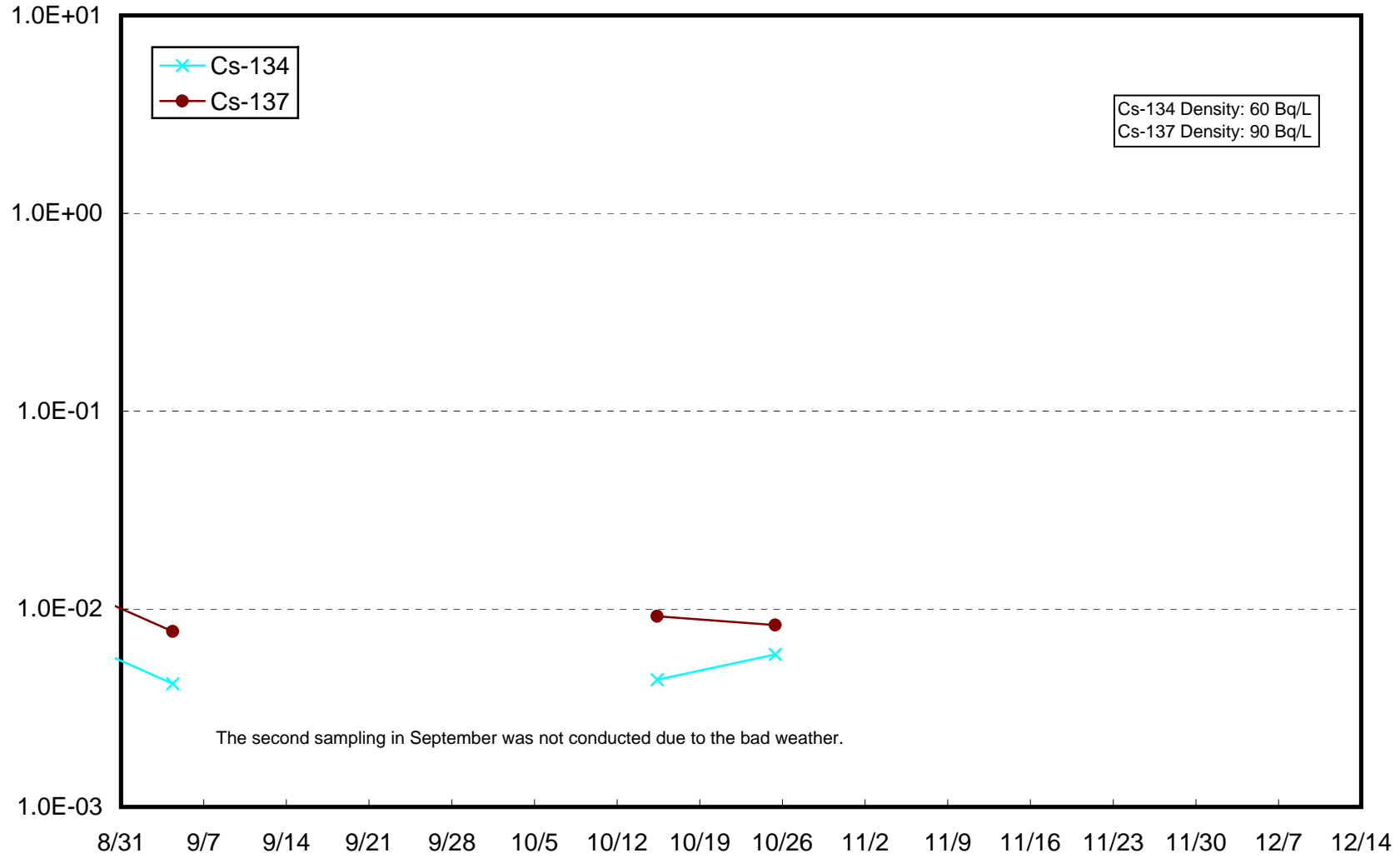
Radioactivity Density of the Seawater in the Central Area of Sendai Bay (T-MG5) Upper Layer (Bq/L)



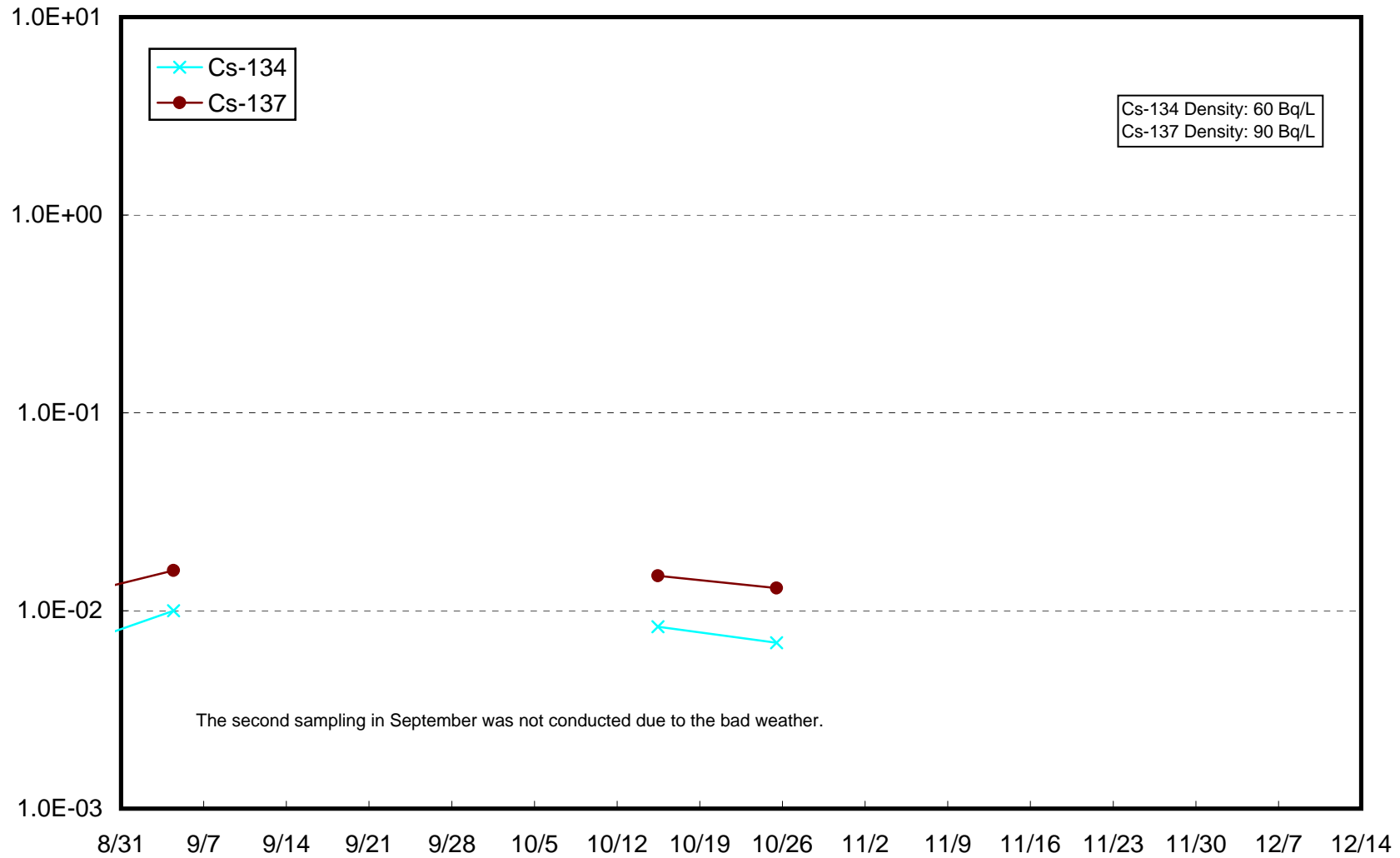
Radioactivity Density of the Seawater in the Central Area of Sendai Bay (T-MG5) Middle Layer (Bq/L)



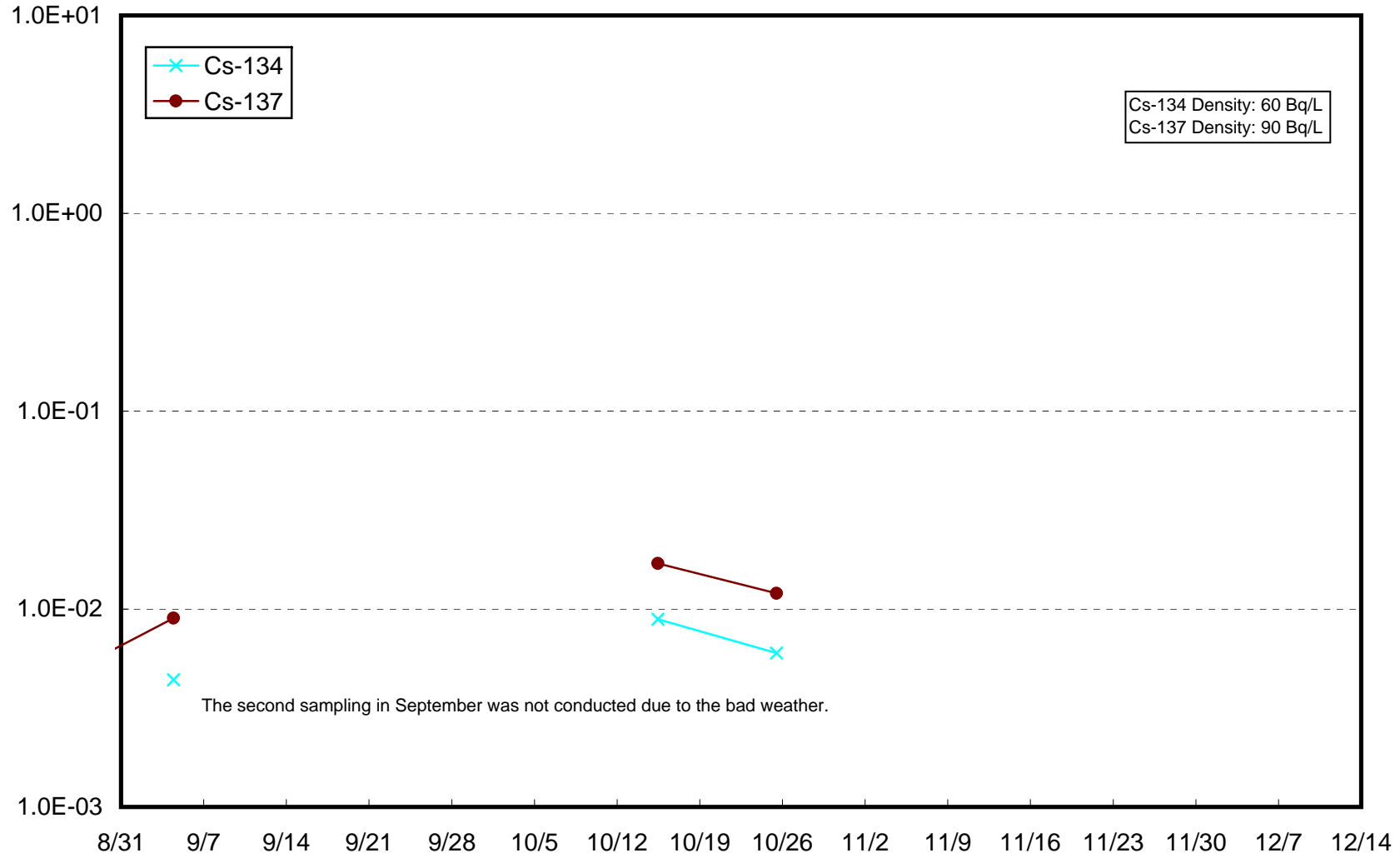
Radioactivity Density of the Seawater in the Central Area of Sendai Bay (T-MG5) Lower Layer (Bq/L)



Radioactivity Density of the Seawater at Offshore of Abukuma River (T-MG6) Upper Layer (Bq/L)



Radioactivity Density of the Seawater at Offshore of Abukuma River (T-MG6) Middle Layer (Bq/L)



Radioactivity Density of the Seawater at Offshore of Abukuma River (T-MG6) Lower Layer (Bq/L)

