Reference

Nuclides Analysis Result of the Radioactive Materials in the Seawater
< Coast, Fukushima Daiichi Nuclear Power Station >

(Data summarized on October 12)

Place of Sampling	North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS (Approx. 30m North of Unit 5-6 Discharge Channel)		Around South Discharge Channel of Fukushima Daiichi NPS (Appox. 330m South of Unit 1-4 Discharge Channel)		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.)
Time of Sampling	Oct 11, 2012 8:35 AM		Oct 11, 2012 8:15 AM		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	ND	-	ND	-	60
Cs-137 (Approx. 30 years)	ND	-	ND	-	90

* The density specified by the Reactor Regulation is converted from Bq/cm^3 to Bq/L.
* Data of other nuclides is under evaluation.
* 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.
  I-131: Approx. 0.51Bq/L, Cs-134: Approx.1.1Bq/L, Cs-137: Approx.1.5Bq/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.

Nuclides Analysis Result of Radioactive Materials in the Seawater < Offshore >

(Data summarized on October 12)

Place of Sampling (Place No.)	3km Offshore of Odaka Ward (T-14)				Around 10km Offshore of 1F (T-B3)				Around 10km Offshore of 2F (T-B4)				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		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		
Time of Sampling	Sep 10, 2012 7:50 AM		Sep 10, 2012 7:50 AM		Sep 10, 2012 5:45 AM		Sep 10, 2012 5:52 AM		Sep 10, 2012 6:48 AM		Sep 10, 2012 6:56 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)	0.089	0.00	0.052	0.00	0.0093	0.00	0.0051	0.00	0.011	0.00	0.0047	0.00	60
Cs-137 (Approx. 30 years)	0.14	0.00	0.078	0.00	0.014	0.00	0.0097	0.00	0.018	0.00	0.0092	0.00	90

Place of Sampling (Place No.)													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		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		
Time of Sampling													
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)													60
Cs-137 (Approx. 30 years)													90

* The density specified by the Reactor Regulation is converted from Bq/cm^3 to Bq/L.
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* Analyzed by : THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

Nuclides Analysis Result of Radioactive Materials in the Seawater

(Data summarized on October 12)

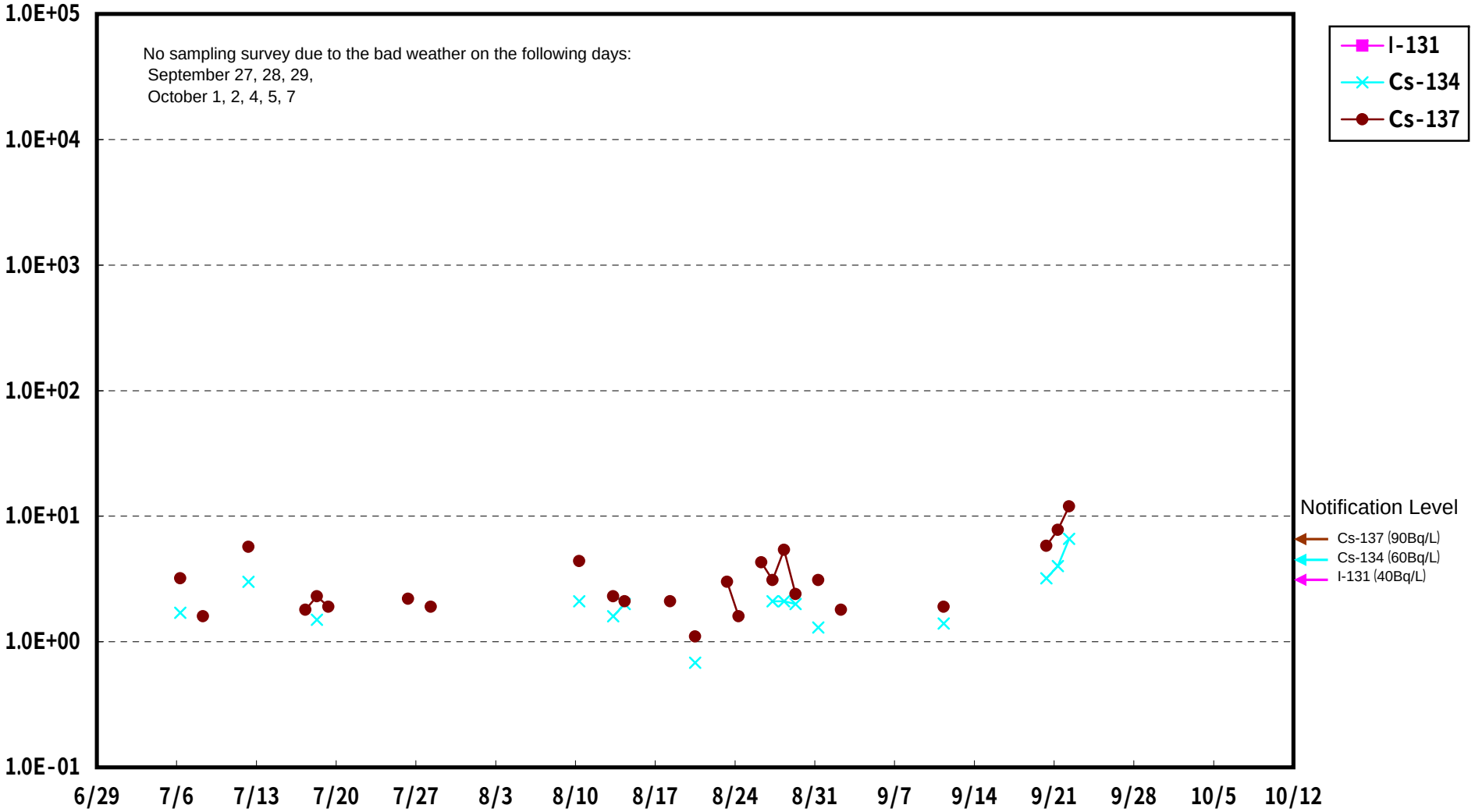
Place of Sampling (Place No.)	Central Area of Sendai Bay (T-MG5) Upper Layer		3km Offshore of Oarai Shore (T-C) Upper Layer				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	Sep 4, 2012		Sep 12, 2012				
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)	
I-131 (Approx. 8 days)	-	-	ND	-			40
Cs-134 (Approx. 2 years)	0.0038	0.00	ND	-			60
Cs-137 (Approx. 30 years)	0.0087	0.00	ND	-			90
Sr-89 (Approx. 51 days)	ND	-	ND	-			300
Sr-90 (Approx. 29 years)	ND	-	ND	-			30

* The density specified by the Reactor Regulation is converted from Bq/cm^3 to Bq/L.
* Radioactivity Density "－" means "not applicable".
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.
* Nuclide analysis results of I-131, Cs-134 and Cs-137 were announced on September 19, and October 5.
* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.
  I-131: Approx. 0.94Bq/L，Cs-134: Approx.1.2Bq/L，Cs-137: Approx.1.2Bq/L，Sr-89: Approx. 0.02Bq/L，Sr-90: Approx. 0.008Bq/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.
* Nuclides analysis of Sr-89 and Sr-90 were done by Japan Chemical Analysis Center.

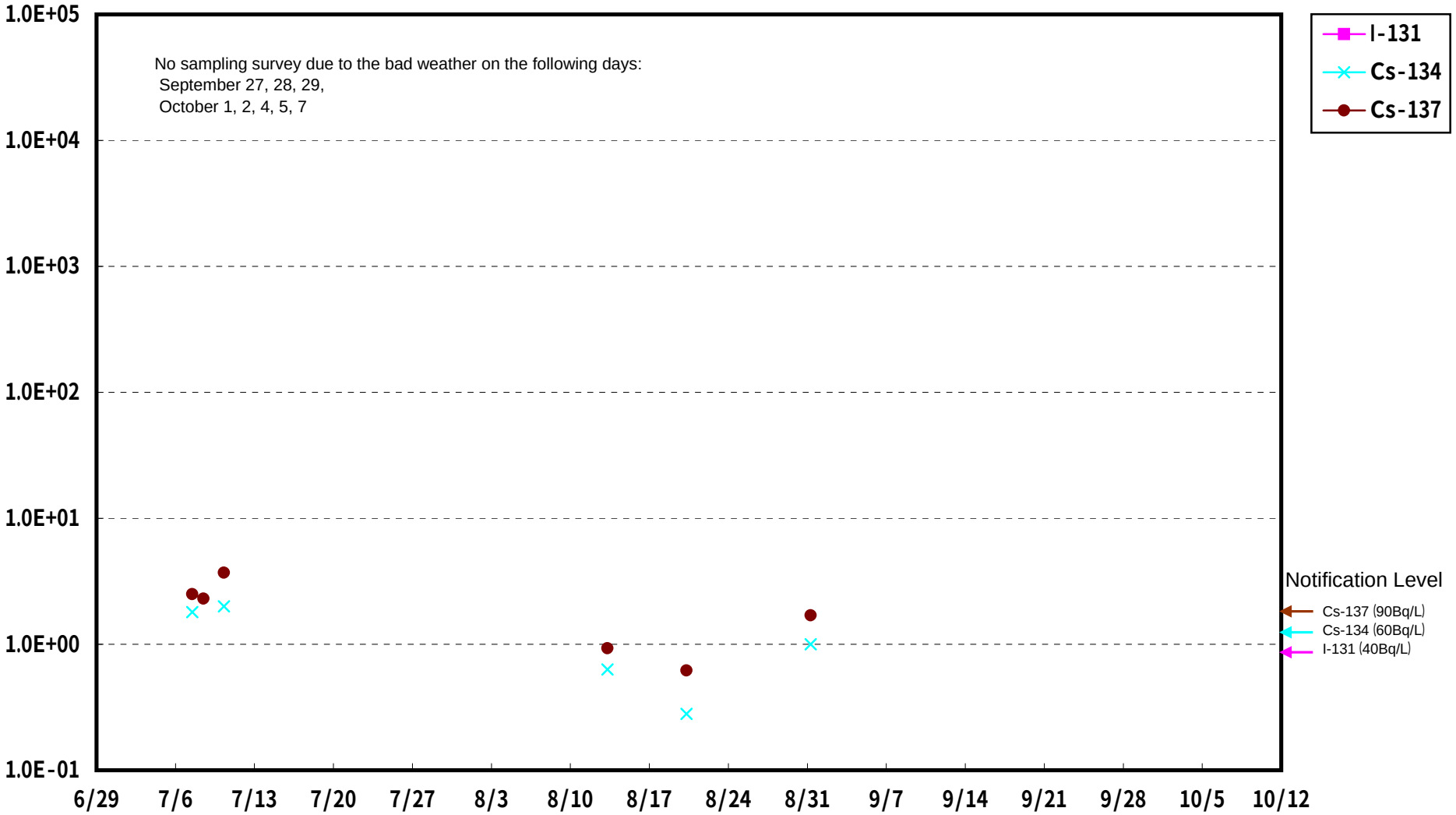
(Evaluation)

Sr-89 and Sr-90 were not detected in the sample collected this time.

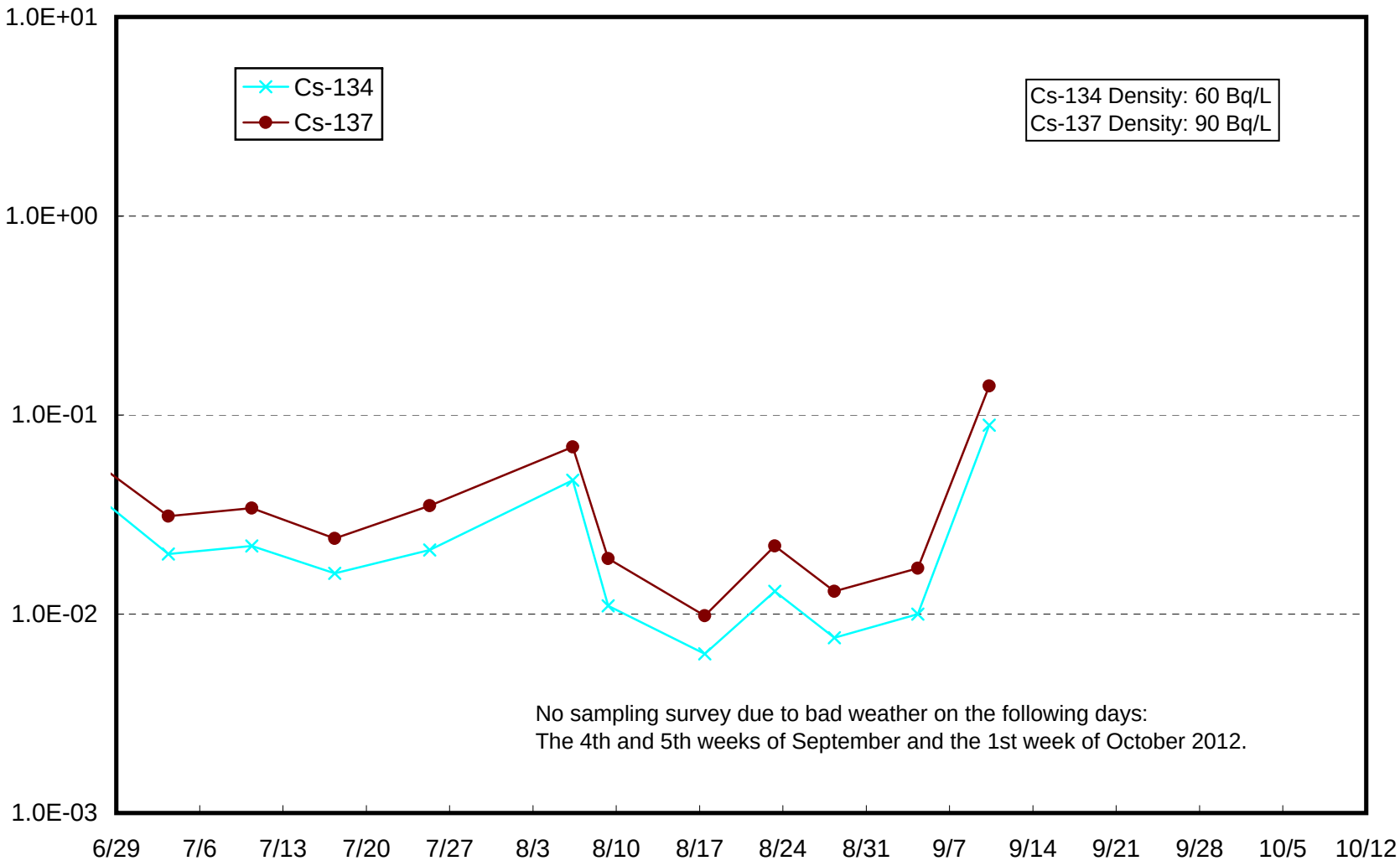
Radioactivity Density of the Seawater at the North of 1F Unit 5-6 Discharge Channel (Bq/L)



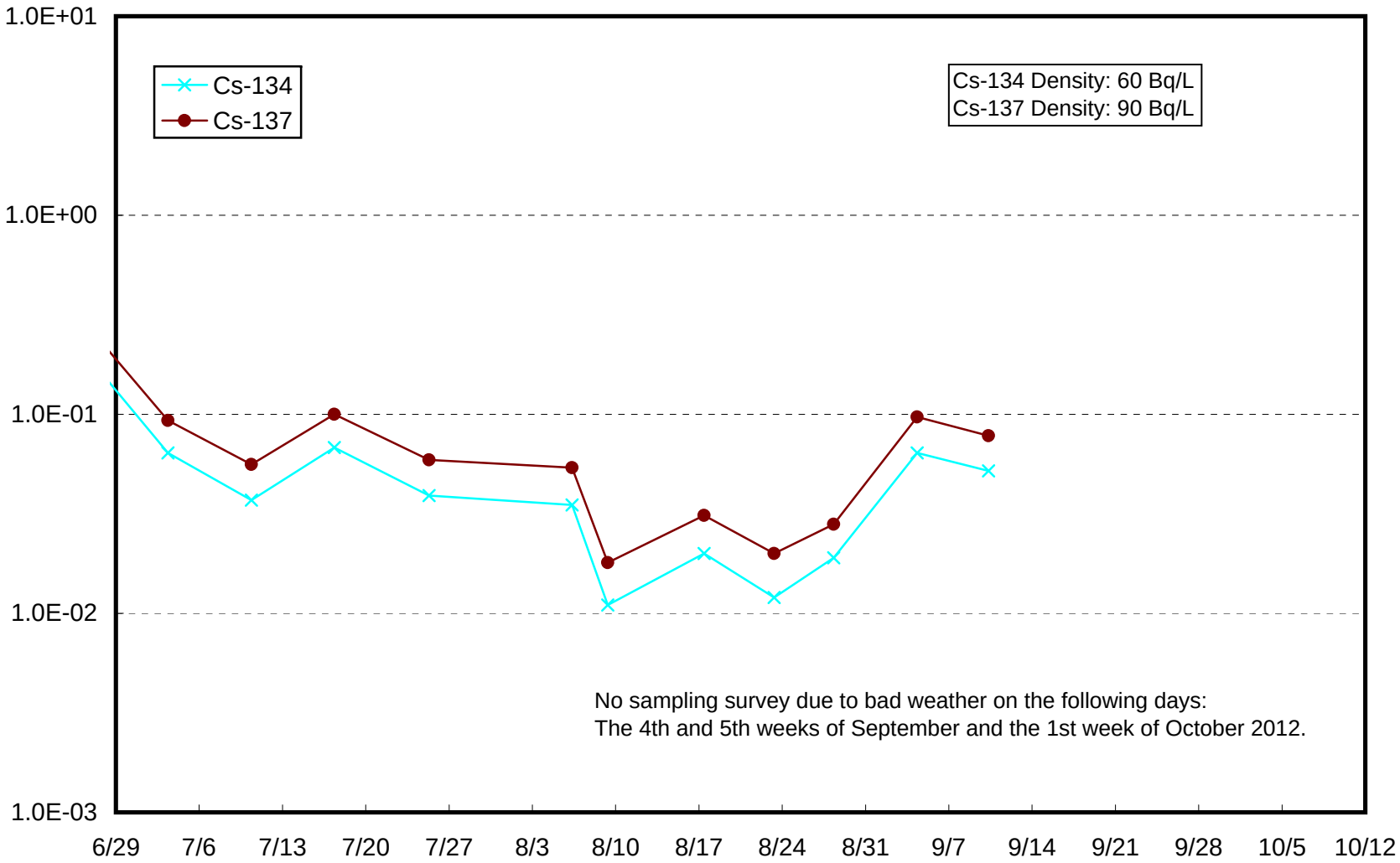
Radioactivity Density of the Seawater at 1F South Discharge Channel (Bq/L)



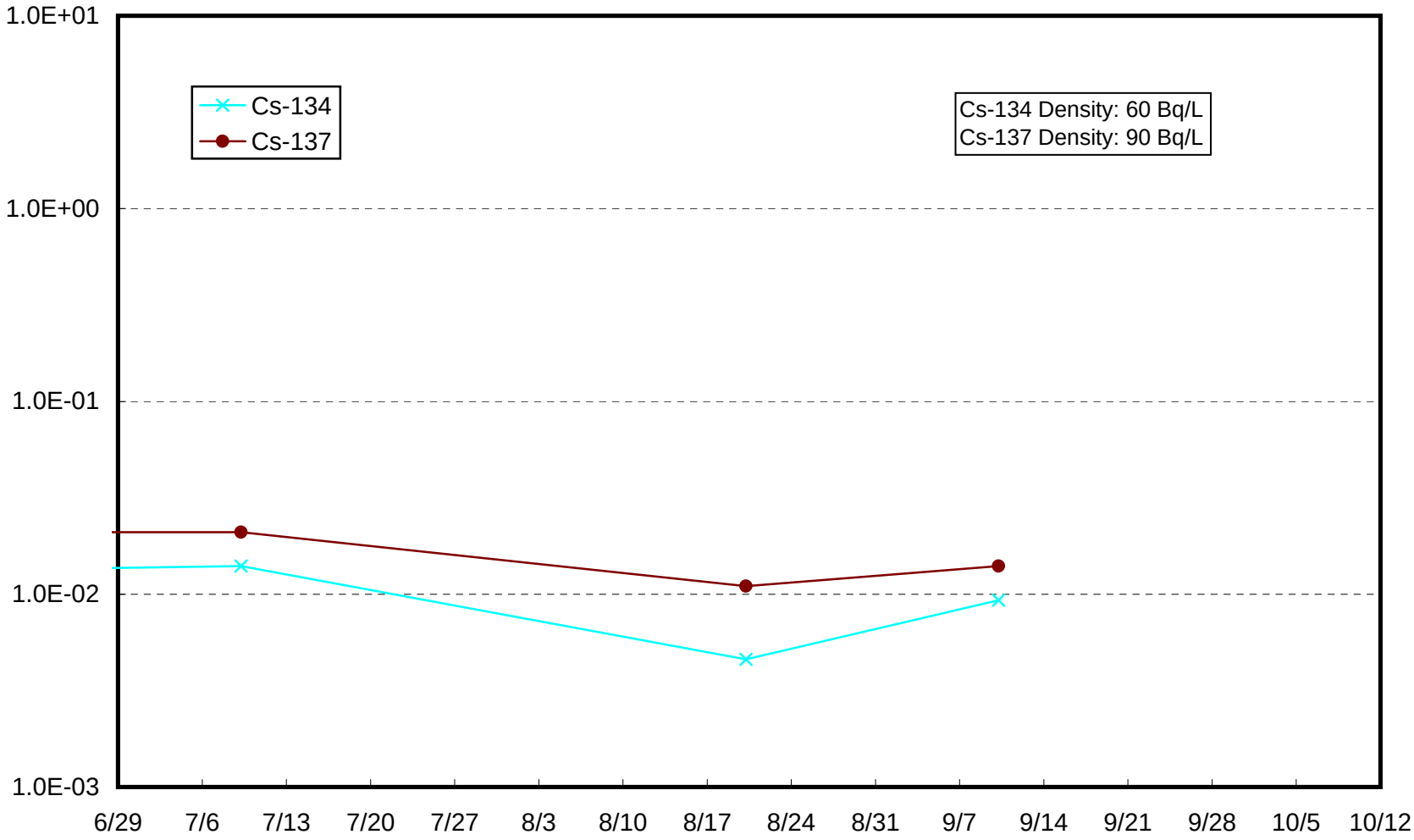
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-14) Upper Layer (Bq/L)



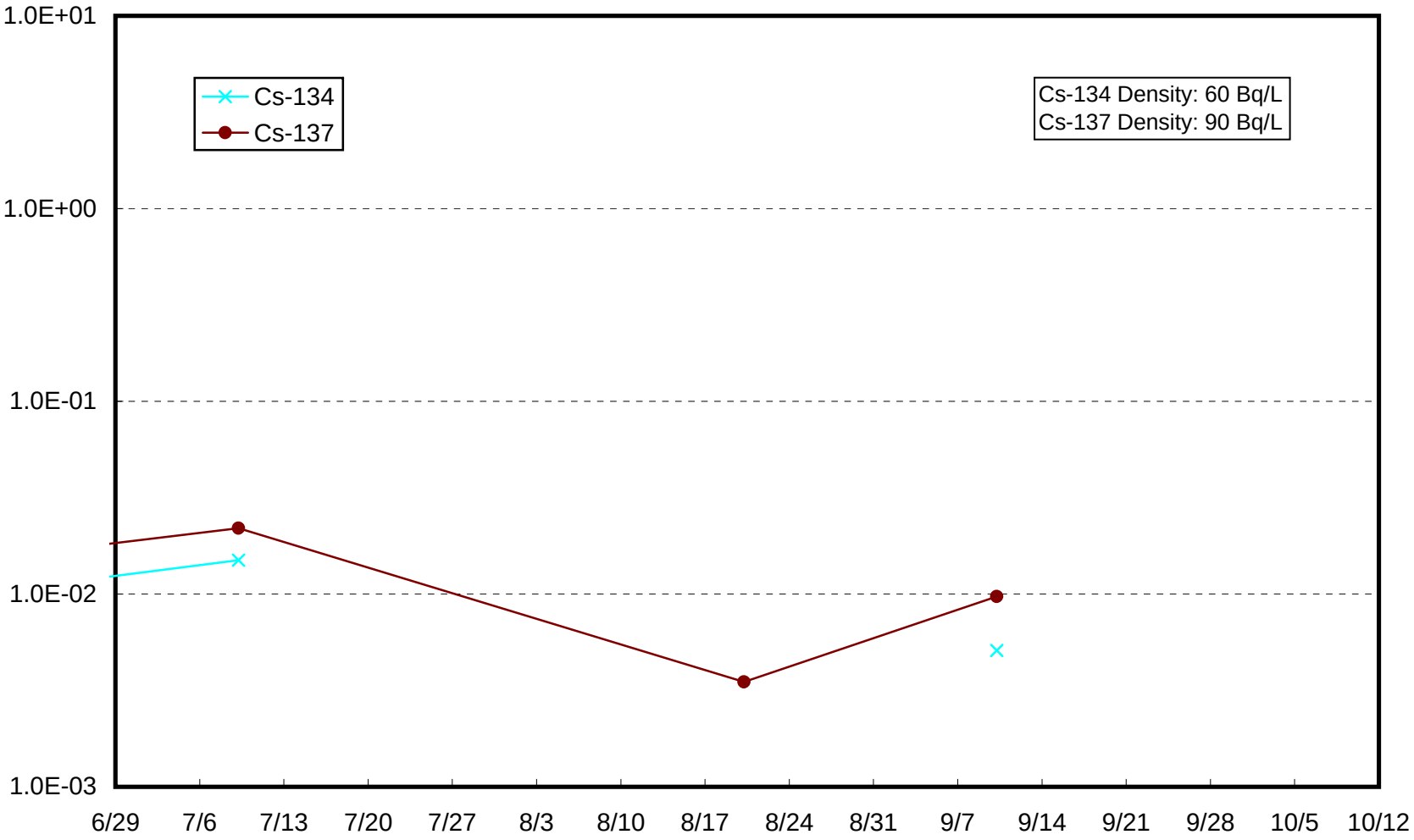
Radioactivity Density of the Seawater at 3km Offshore of Odaka Ward (T-14) Lower Layer (Bq/L)



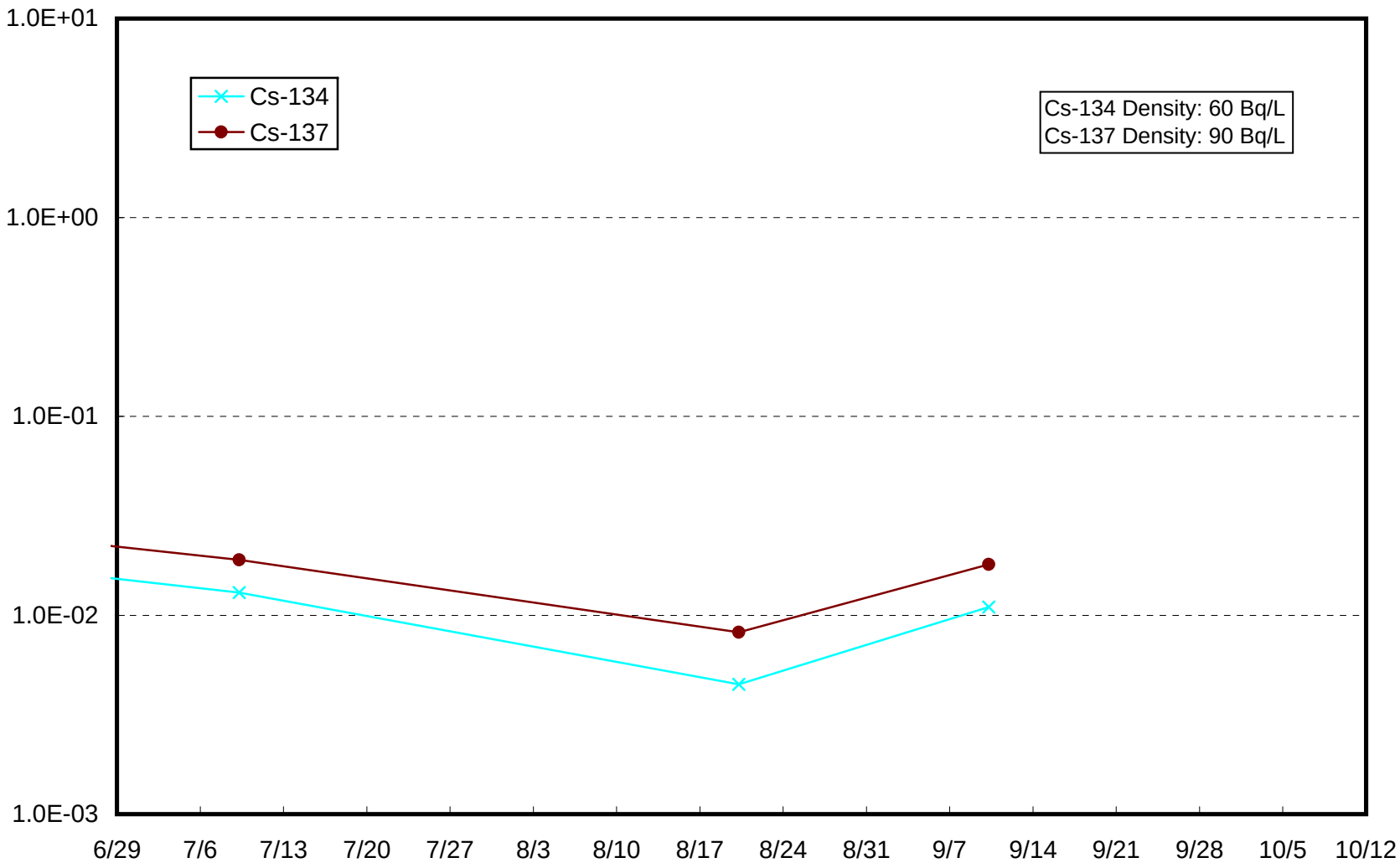
Radioactivity Density of the Seawater Around 10km Offshore of Fukushima Daiichi NPS (T-B3) Upper Layer (Bq/L)



Radioactivity Density of the Seawater Around 10km Offshore of Fukushima Daiichi NPS (T-B3) Lower Layer (Bq/L)



Radioactivity Density of the Seawater Around 10km Offshore of Fukushima Daini (T-B4) Upper Layer (Bq/L)



Radioactivity Density of the Seawater Around 10km Offshore of Fukushima Daini (T-B4) Lower Layer (Bq/L)