

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

(Data summarized on April 8)

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 (Approx. 1.3km 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 Apr 7, 2014 6:10 AM		Time of Sampling Apr 7, 2014 5:30 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(0.74)	-	ND(0.66)	-	40
Cs-134 (Approx. 2 years)	ND(0.86)	-	ND(0.59)	-	60
Cs-137 (Approx. 30 years)	1.2	0.01	ND(0.68)	-	90

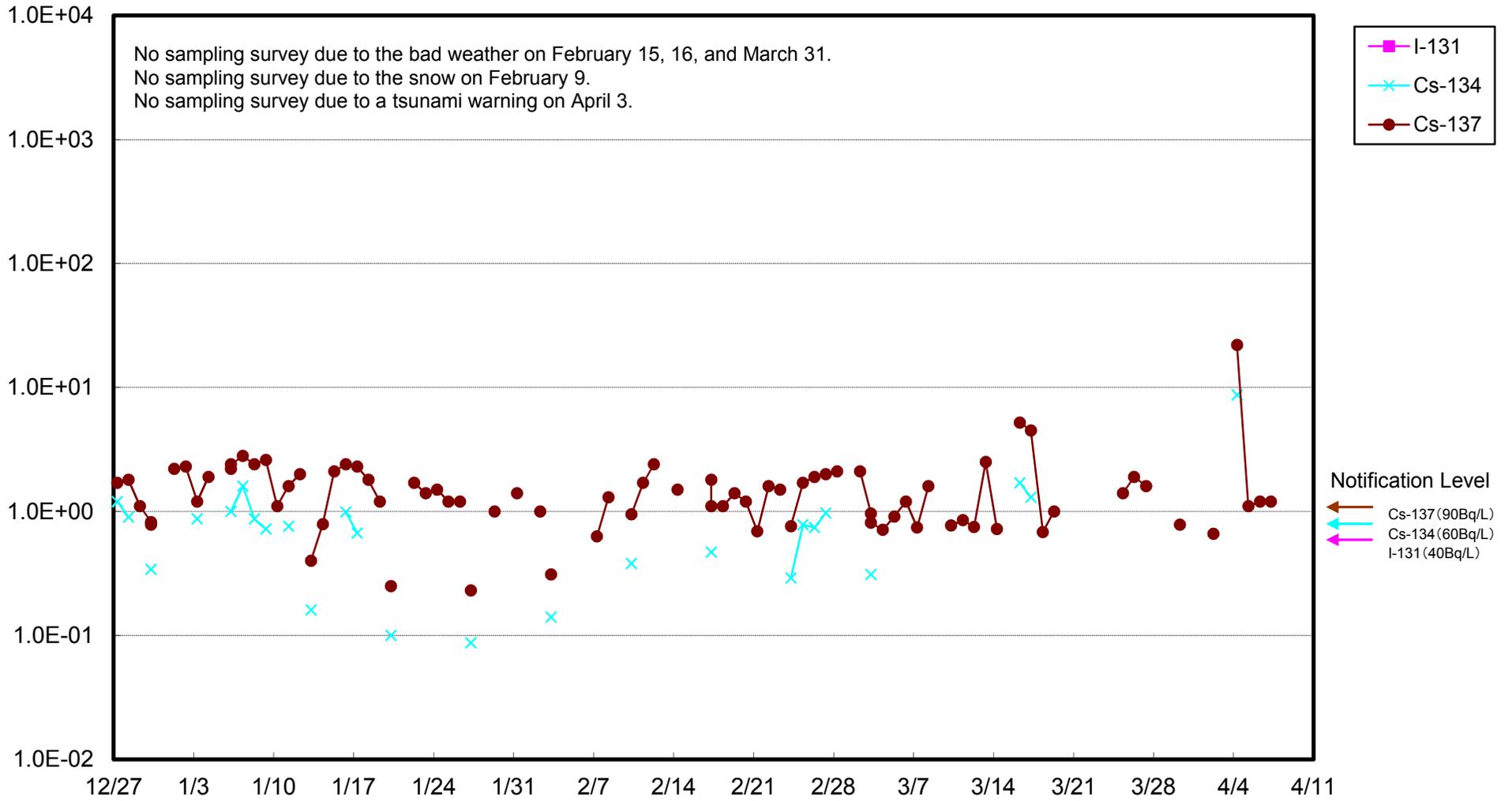
* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* Data of other nuclides is under evaluation.

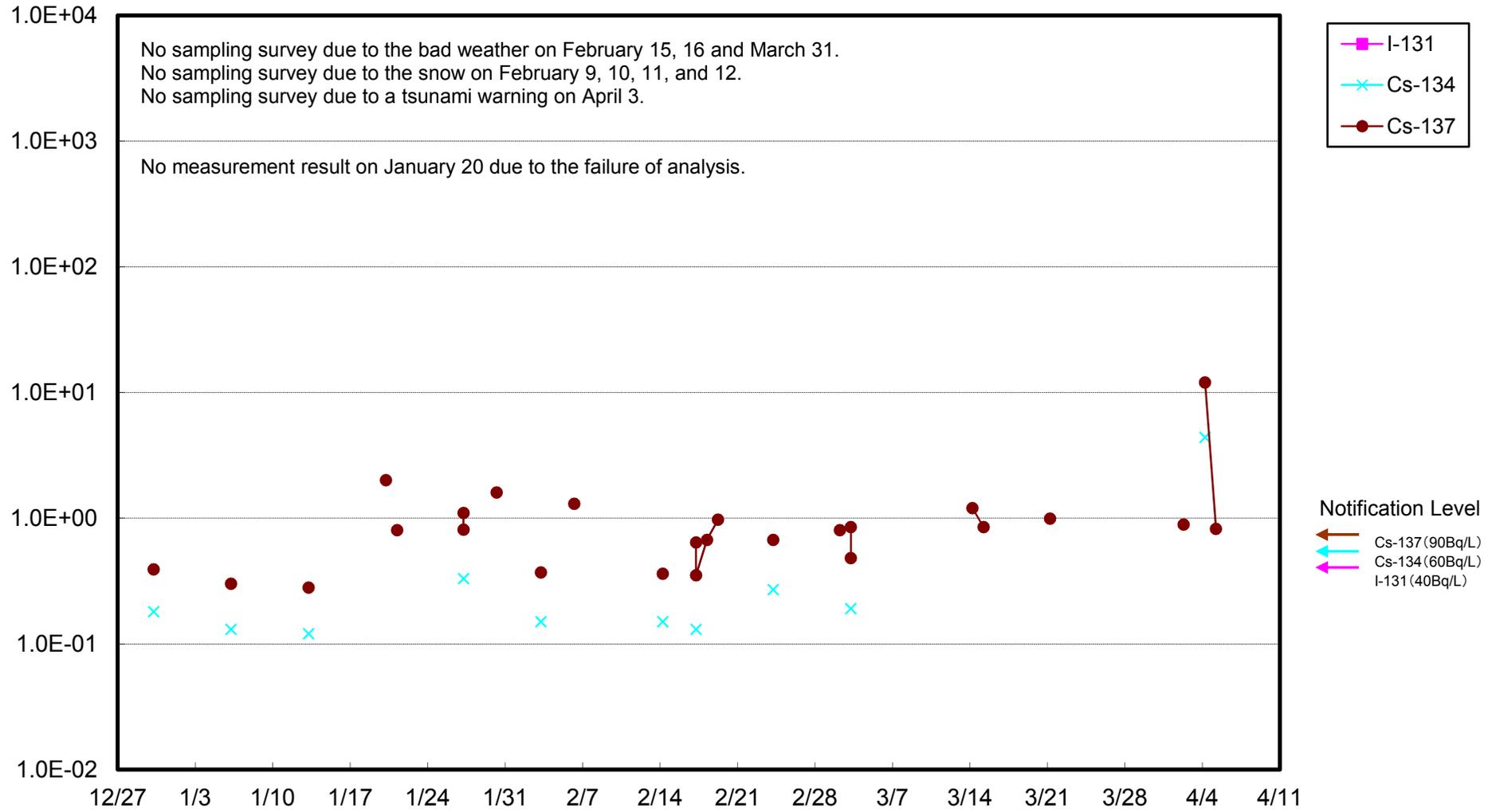
* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit, which is provided in parentheses.

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



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



Analysis Result of Pu in the Seawater

1. Measurement Result:

(Data summarized on April 8)
(Unit: Bq/L)

Place of Sampling	Date	Pu-238	Pu-239+Pu-240
1F, North of Unit 5-6 Discharge Channel	Mar 4, 2014	N.D. [8.3×10^{-6}]	N.D. [8.1×10^{-6}]
1F, Around South Discharge Channel		N.D. [5.9×10^{-6}]	$(3.0 \pm 0.41) \times 10^{-5}$
15km Offshore of Fukushima Daiichi NPS, Upper Layer	Mar 5, 2014	N.D. [7.6×10^{-6}]	N.D. [7.3×10^{-6}]
Around 3km Offshore of Ukedo River, Upper Layer	Mar 4, 2014	N.D. [7.3×10^{-6}]	$(7.8 \pm 2.4) \times 10^{-6}$
3km Offshore of Fukushima Daiichi NPS, Upper Layer		N.D. [7.8×10^{-6}]	N.D. [8.4×10^{-6}]
3km Offshore of Fukushima Daini NPS, Upper Layer	Mar 3, 2014	N.D. [7.1×10^{-6}]	$(7.6 \pm 2.2) \times 10^{-6}$
The range of the past measurement results obtained in the ocean near Fukushima Daiichi and Daini Nuclear Power Stations (FY2001 - FY2008)*		—	ND $\sim 1.3 \times 10^{-5}$

[] shows below the detection limit.

*: Source "Report on the environmental radioactivity measurement around the Nuclear Power Plant (2011)", Committee on the safety technology of Nuclear Power Plants in Fukushima.

2. Analytical Institution: Japan Chemical Analysis Center

3. Evaluation:

The density level of Pu-239+Pu-240 detected at around South Discharge Channel, around 3km offshore of Ukedo River, and 3km Offshore of Fukushima Daini NPS on March 3 and 4, 2014 is within the range of the past density measurements conducted along the seacoasts of Fukushima Daiichi and Daini NPS.

End