

## Nuclide Analysis Results of Radioactive Materials in Seawater < Coast, Fukushima Daiichi Nuclear Power Station >

Reference

(Data summarized on April 17)

Place of Sampling	North of Discharge Channel of 5-6u of 1F (approx. 30m north of 5-6u discharge channel)		Around South Discharge Channel of 1F ( approx. 330m south of 1-4u Discharge Channel)		Density limit by the announcement of Reactor Regulation (Bq/L)  (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Time of Sampling	April 16, 2012 9:35 AM		April 16, 2012 8:40 AM		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	
I-131 (approx. 8 days)	ND	-	ND	-	40
Cs-134 (approx. 2 years)	ND	-	ND	-	60
Cs-137 (approx. 30 years)	ND	-	ND	-	90

\* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm<sup>3</sup> to Bq/L.

\* Data of other nuclides are under evaluation.

\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

\* "ND" means the sampled data is below measurable limit.

I-131: approx. 0.53Bq/L, Cs-134: approx. 1.3Bq/L, Cs-137: approx. 1.6Bq/L

Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

## Nuclide Analysis Results of Radioactive Materials in Seawater <Offshore>

(Data summarized on April 17)

Place of Sampling	Central area of Sendai bay Upper Layer		5 km offshore of Souma City Upper Layer		3 km offshore of Ena Upper Layer		3 km offshore of Oarai shore Upper Layer		Density limit by the announcement of Reactor Regulation (Bq/L)  (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
Date of sampling	March 16, 2012		March 22, 2012		March 15, 2012		March 14, 2012		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	Density of Sample (Bq/L)	Scaling Factor ( / )	
I-131 (approx. 8 days)	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (approx. 2 years)	ND	-	ND	-	ND	-	ND	-	60
Cs-137 (approx. 30 years)	ND	-	ND	-	ND	-	ND	-	90
Sr-89 (about 51 days)	ND	-	ND	-	ND	-	ND	-	300
Sr-90 (about 29 years)	ND	-	ND	-	0.017	0.00	ND	-	30

\* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm<sup>3</sup> to Bq/L.

\* In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

\* Result of I-131 , Cs-134 , Cs-137 were published on March 17, 21, 22 and 24.

\* In the case the measurement is under the detection threshold, "ND" is marked.

I-131: approx. 0.92Bq/L , Cs-134: approx. 1.0Bq/L , Cs-137: approx. 1.2Bq/L , Sr-89: approx. 0.02Bq/L , Sr-90: approx. 0.01Bq/L

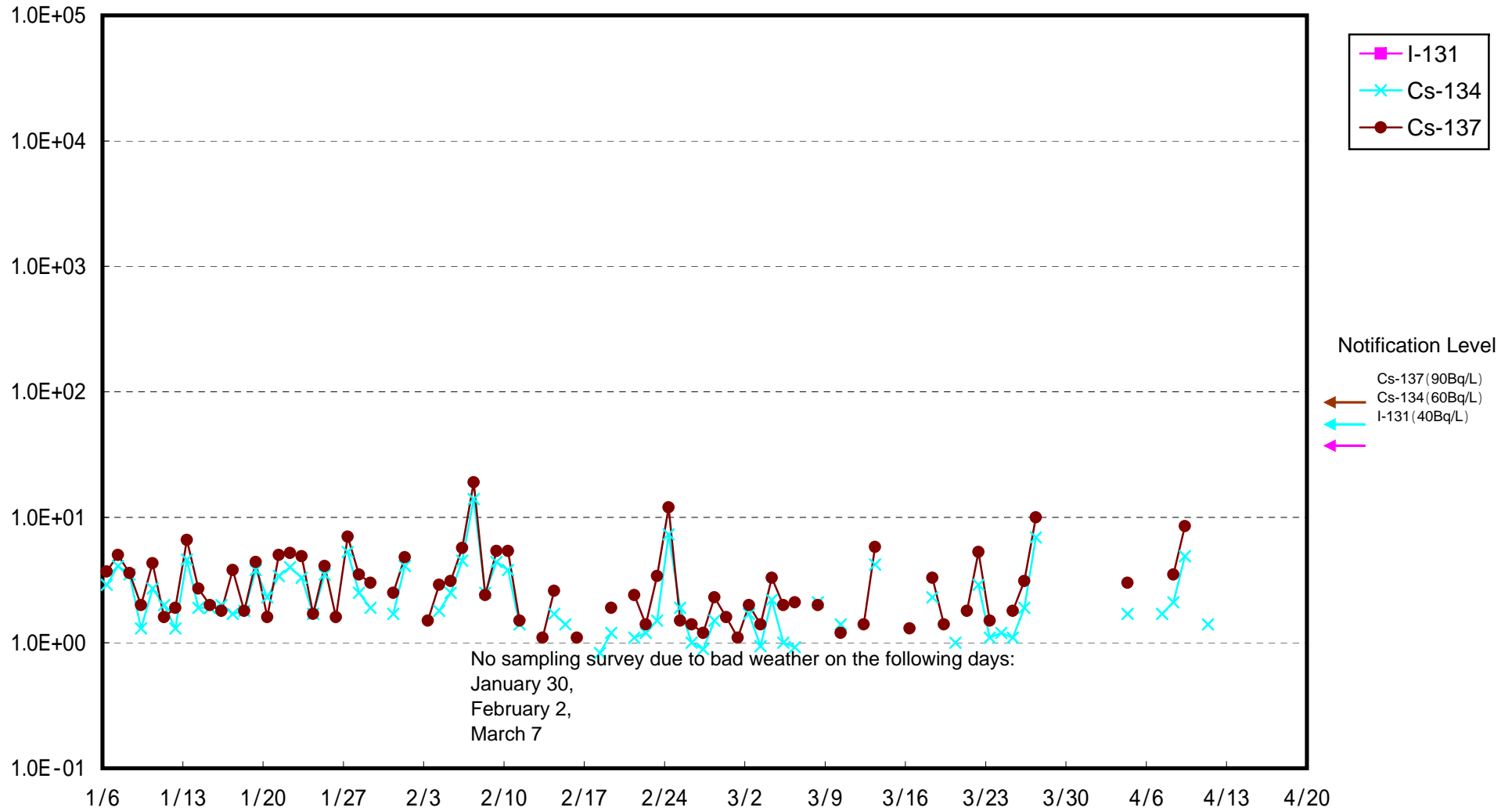
In addition, the detection threshold is different according to the detectors and the sample forms. So, it is possible to detect the nuclide under detection threshold.

\* Nuclide analysis for Sr-89 , Sr-90 were conducted by Japan Chemical Analysis Center.

(Evaluation)

Although the detection of Sr-90 by which this accident is considered to be the cause, it is less than the density limit in the water by the announcement.

Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



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

