Nuclide Analysis Results of Radioactive Materials in Seawater < Coast>

Reference

(Data summarized on January 17)

Place of Sampling	North of Discha of 5-6u of (approx. 30m n discharge of	of 1F orth of 5-6u	Around South Channel (appox. 330m of Discharge (of 1F south of 1-4u	Around North Channel (Around 3,4u Chanr (approx. 10 ki	of 2F u Discharge nel)	Around Iwasawa (appox. 7 km s Discharge 0 (appox. 16 kr	south of 1,2u Channel)	Density limit by the announcement of Reactor Regulation (Bq/L)
Time of Sampling	January 16 8:50 a		January 10 8:25 a		January 1 8:15 a		January 16, 2012 7:50 am		(the density limit in the water outside of surrounding monitored
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 (/)	areas in the section 6 of the appendix 2)
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	2.0	0.03	1.6	0.03	ND	-	ND	-	60
Cs-137 (about 30 years)	1.8	0.02	2.4	0.03	ND	-	ND	-	90

^{*} Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

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

^{*} 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.

^{* &}quot;ND" means the sampled data is below measurable limit.

I-131: approx. 0.71Bq/L, Cs-134: approx. 0.91Bq/L, Cs-137: approx. 1.0Bq/L

Nuclide Analysis Results of Radioactive Materials in Seawater < Offshore>

Reference

(Data summarized on January 17)

Place of Sampling	Haramachi Wa	3 km offshore of Haramachi Ward Upper Layer 3 km offshore of Haramachi Ward Lower Layer		3 km offshore of Odaka Ward Upper Layer		3 km offshore of Odaka Ward Lower Layer		3 km offshore of Iwasawa shore Upper Layer		3 km offshore of lwasawa shore Lower Layer		Density limit by the announcement of Reactor Regulation	
Time of Sampling	Jan 15, 2 10:30 a		Jan 15, 2 10:30 a		Jan 15, 2 10:15 a		Jan 15, 2012 10:15 am		Jan 15, 2012 08:15 am		Jan 15, 2012 08:15 am		(Bq/L) (the density limit in the
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	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	water outside of surrounding monitored areas in the section 6 of the appendix 2)
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	90

Place of Sampling	8 km offshore Ward Uppe		8 km offshore Ward Lower		8 km offshore of Iwasawa shore Upper Layer		8 km offshore of Iwasawa shore Lower Layer						Density limit by the announcement of Reactor Regulation
Time of Sampling	Jan 15, 2 09:55 a		·	Jan 15, 2012 09:55 am		Jan 15, 2012 08:40 am		Jan 15, 2012 08:40 am					(Bq/L) (the density limit in the
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	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor	water outside of surrounding monitored areas in the section 6 of the appendix 2)
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-					40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-					60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-					90

^{*} Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

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

^{*} 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.

^{* &}quot;ND" means the sampled data is below measurable limit.

I-131: approx. 0.73Bq/L, Cs-134: approx. 0.90Bq/L, Cs-137: approx. 1.1Bq/L

Nuclide Analysis Results of Radioactive Materials in Seawater < coast and offshore >

(Data summarized on January 17)

								•	<u>, , , </u>	
Place of Sampling	ing North of Discharge Channel of 5-6u of 1F (approx. 30m north of 5-6u discharge channel)		Around South Channel of 1F 330m south Discharge C	(appox. of 1-4u	15 km offsh Fukushima Dai Laye	iichi Upper	15 km offsh Fukushima Da Laye	aini Upper	Density limit by the announcement of Reactor Regulation (Bq/L) (the density limit in the water outside of surrounding monitored	
Date of sampling	10-Dec-11		10-Dec	-11	10-Dec	-11	10-Dec	-11		
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 (/	areas in the section 6 of the appendix 2)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	40	
Cs-134 (about 2 years)	3.5	0.06	1.7	0.03	ND	-	ND	-	60	
Cs-137 (about 30 years)	4.1	0.05	2.3	0.03	ND	-	ND	-	90	
H-3 (about 12 years)	ND	-	ND	-	ND	-	ND	-	60,000	
all of α	ND	-	ND	-	ND	-	ND	-	-	
all of β	25	-	32	-	ND	-	ND	-	-	
Sr-89 (about 51 days)	1.2	0.00	2.5	0.01	ND	-	ND	-	300	
Sr-90 (about 29 years)	3.9	0.13	9.6	0.32	0.063	0.00	0.016	0.00	30	

^{*} Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

I-131: approx. 0.83Bq/L , Cs-134: approx. 0.97Bq/L , Cs-137: approx. 1.0Bq/L , H-3:approx. 110Bq/L

all of : approx. 3.2Bq/L, all of : approx. 21Bq/L, Sr-89: approx. 0.03Bq/L

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

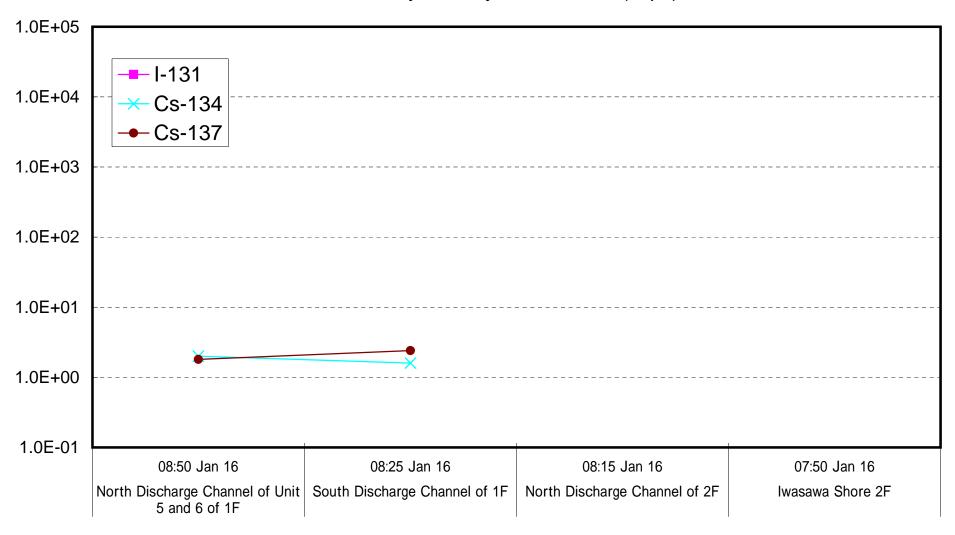
^{*} In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

^{*} We announced the result of I-131, Cs-134 and Cs-137 on December 11 and 12, the result of all β on December 17, the result of Sr on January 16.

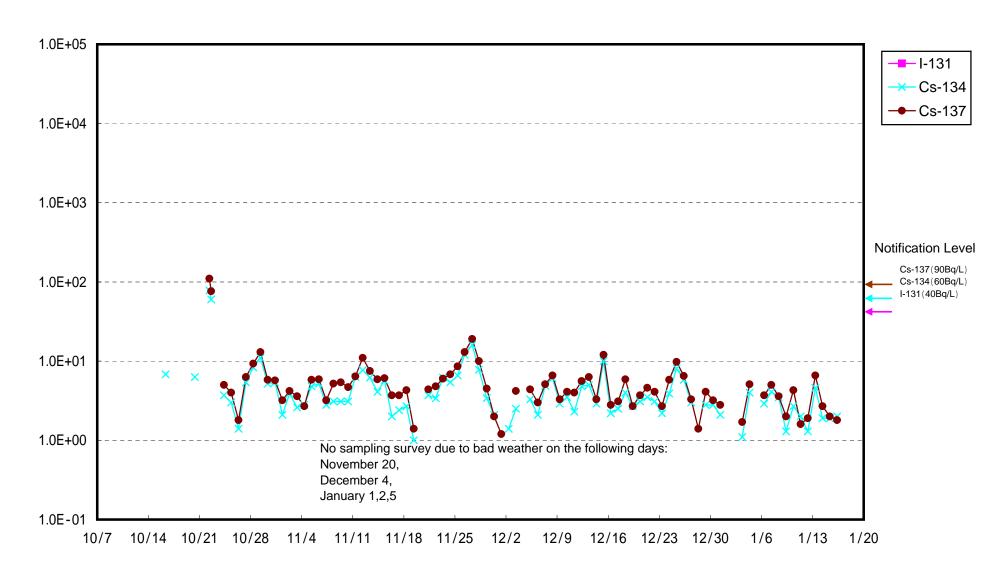
^{* &}quot;ND" means the sampled data is below measurable limit. The followings show the detection limits.

^{*} Japan Chemical Analysis Center analyzed Sr-89 and Sr-90.

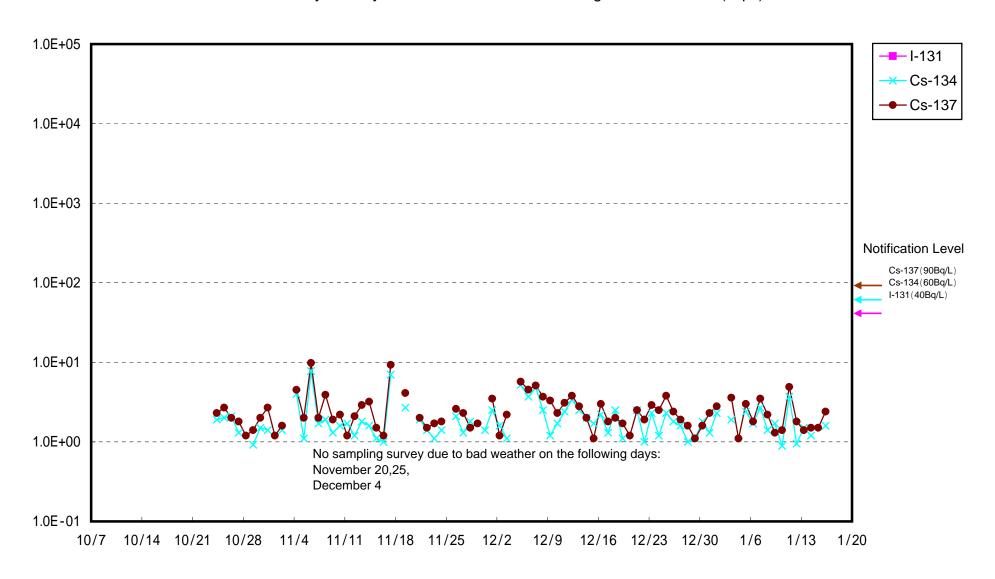
Radioactivity Density of Seawater (Bq/L)



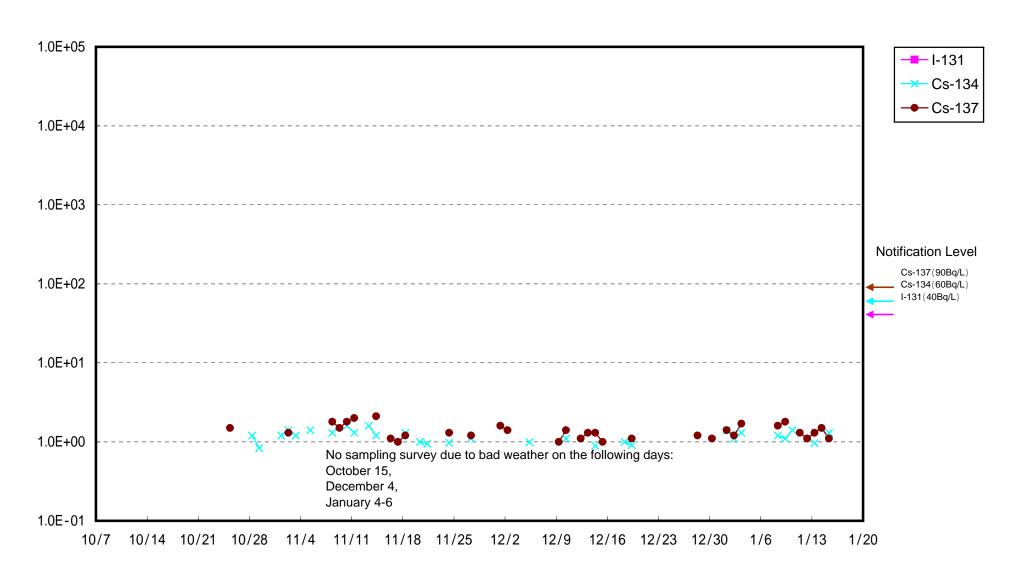
Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



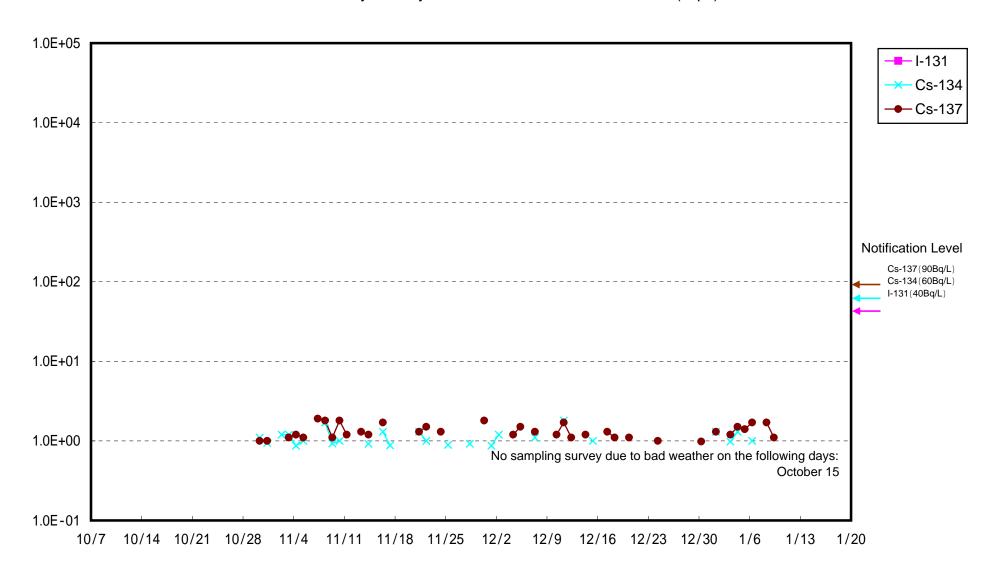
Radioactivity Density of Seawater at South Discharge Channel of 1F (Bq/L)

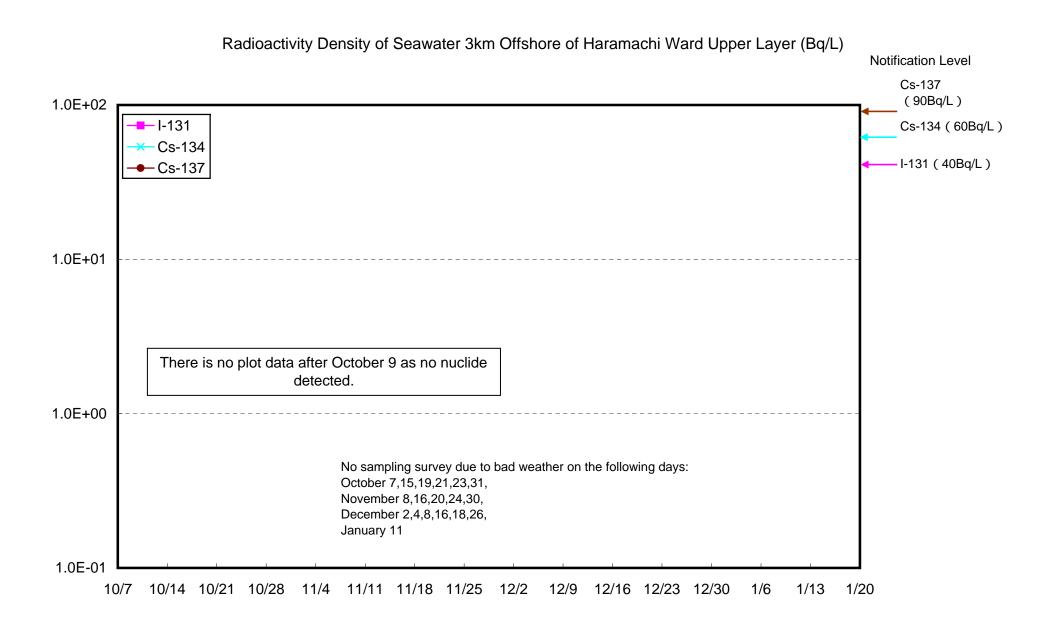


Radioactivity Density of Seawater at North Discharge Channel of 2F (Bq/L)

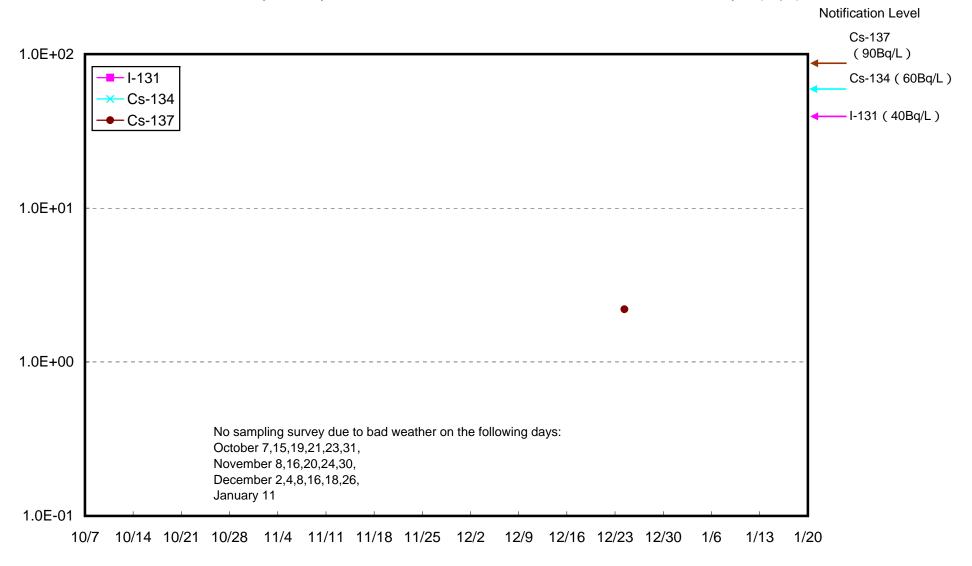


Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)

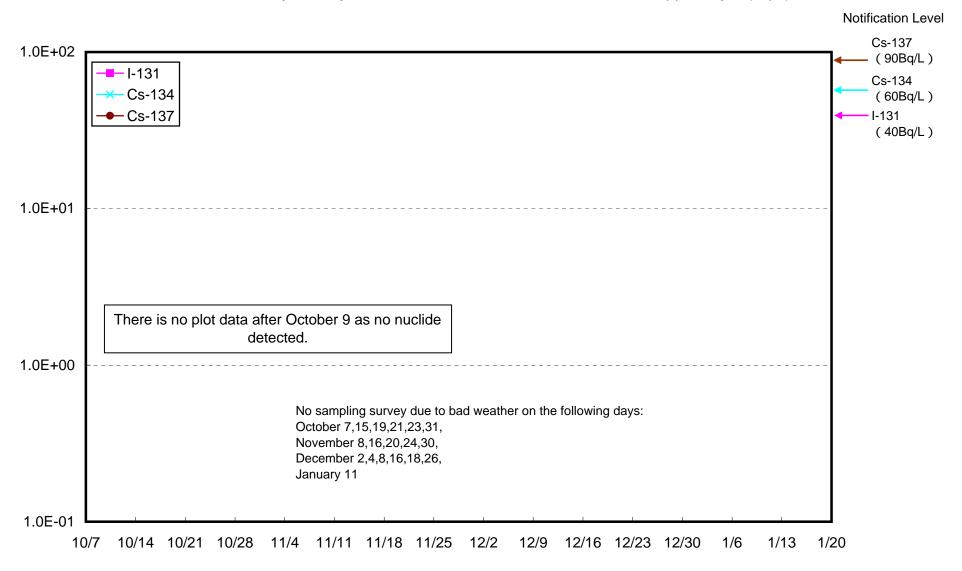




Radioactivity Density of Seawater 3km Offshore of Haramachi Ward Lower Layer (Bq/L)



Radioactivity Density of Seawater 3km Offshore of Odaka Ward Upper Layer (Bq/L)



Radioactivity Density of Seawater 3km Offshore of Odaka Ward Lower Layer (Bq/L)

