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

Reference

(Data summarized on February 22)

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 Discharge (	of 1F south of 1-4u	Around North Channel ( Around 3,4u Chanr ( approx. 10 ki	of 2F I Discharge nel)	Around Iwasawa ( appox. 7 km : Discharge ( ( appox. 16 kr	south of 1,2u Channel)	Density limit by the announcement of Reactor Regulation (Bq/L)	
Time of Sampling	Feb 21, 08:40		Feb 21, 08:20		Feb 21, 08:30		Feb 21, 08:05		(the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)	
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 (about 8 days)	ND	-	ND	-	ND	1	ND	-	40	
Cs-134 (about 2 years)	1.1	0.02	2.7	0.05	ND		ND	-	60	
Cs-137 (about 30 years)	2.4	0.03	2.5 0.03		ND -		ND -		90	

<sup>\*</sup> Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

I-131: approx. 0.71Bq/L, Cs-134: approx. 0.88Bq/L, Cs-137: approx. 1.0Bq/L

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

<sup>\*</sup> Data of other nuclides are under evaluation.

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

<sup>\* &</sup>quot;ND" means the sampled data is below measurable limit.

#### Nuclide Analysis Results of Radioactive Materials in Seawater < Offshore 1/2>

Reference

(Data summarized on February 22)

													• •
Place of Sampling	3 km offsh Haramachi Wa Layer	ard Upper	3 km offshore of Haramachi Ward Lower Layer		3 km offshore Ward Uppe		3 km offshore Ward Lowe		3 km offshore of Iwasawa shore Upper Layer		3 km offshore of Iwasawa shore Lower Layer		Density limit by the announcement of Reactor Regulation
Time of Sampling	Feb 20, 2 10:05 a		Feb 20, 2 10:05 a		Feb 20, 2 09:45 a		Feb 20, 2 09:45 a		Feb 20, 2 07:45 a		Feb 20, 2012 07:45 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 Upper		8 km offshore Ward Lower		8 km offsh Iwasawa sho Layei	re Upper	8 km offsho Iwasawa sho Layer	re Lower					Density limit by the announcement of Reactor Regulation
Time of Sampling	Feb 20, 2 09:25 a		Feb 20, 2 09:25 a		Feb 20, 2 08:10 a		Feb 20, 2 08:10 a						(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

<sup>\*</sup> 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.

<sup>\*</sup> Data of other nuclides are under evaluation.

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

<sup>\* &</sup>quot;ND" means the sampled data is below measurable limit.

I-131: approx. 0.64Bq/L, Cs-134: approx. 0.95Bq/L, Cs-137: approx. 1.1Bq/L

#### Nuclide Analysis Results of Radioactive Materials in Seawater < Offshore 2/2>

Reference

(Data summarized on February 22)

Place of Sampling	3 km offshore of North of 3 km offshore of No Iwaki Upper Layer Iwaki Lower Lay			f 3 km offshore of Natsui river Upper Layer		3 km offshore of Natsui river Lower Layer		3 km offshore of Onahama port Upper Layer		3 km offshore of Onahama port Lower Layer		Density limit by the announcement of Reactor Regulation	
Time of Sampling	Feb 20, 2 06:35 a		Feb 20, 2 06:35 a		Feb 20, 2 07:00 a		Feb 20, 2 07:00 a		N/A		N/A		(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	1	ND	-	ND	-	-	-	-	-	60
Cs-137 (about 30 years)	ND	-	ND	-	ND	-	ND	-	-	-	-	-	90

Place of Sampling	3 km offshore Upper La		3 km offshore Lower La		3 km offsh Numanouch Laye	i Upper	3 km offsh Numanouch Layei	i Lower	3 km offshore o Upper La	,	3 km offshore of Toyoma Lower Layer		Density limit by the announcement of Reactor Regulation
Time of Sampling	N/A		N/A		Feb 20, 2 07:10 a		Feb 20, 2 07:10 a		Feb 20, 2 07:20 a		Feb 20, 2 07:20 a		(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

<sup>\*</sup> Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

I-131: approx. 1.1Bq/L, Cs-134: approx. 0.92Bq/L, Cs-137: approx. 1.1Bq/L

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

<sup>\*</sup> Data of other nuclides are under evaluation.

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

<sup>\* &</sup>quot;ND" means the sampled data is below measurable limit.

#### Nuclide Analysis Results of Radioactive Materials in Seawater < offshore Unmanned Survey Ship >

Reference

(Data summarized on February 22)

Place of Sampling	50 m from the the north side Fukushima	seawall,	50 m from the center of the south side seawall, Fukushima Daiichi										Density limit by the announcement of
Time of Sampling	Feb 20, 2 12:43 p		Feb 20, 2012 01:02 pm										Reactor Regulation (Bq/L) (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	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	-									40
Cs-134 (about 2 years)	1.1	0.02	0.85	0.01									60
Cs-137 (about 30 years)	2.0	0.02	1.2	0.01									90

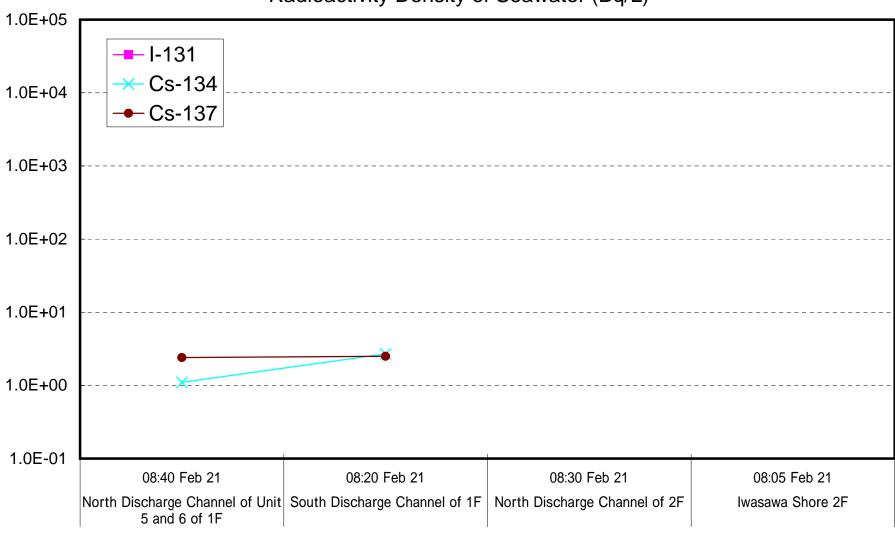
<sup>\*</sup> Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 to Bq/L.

<sup>\*</sup> Data of other nuclides are under evaluation.

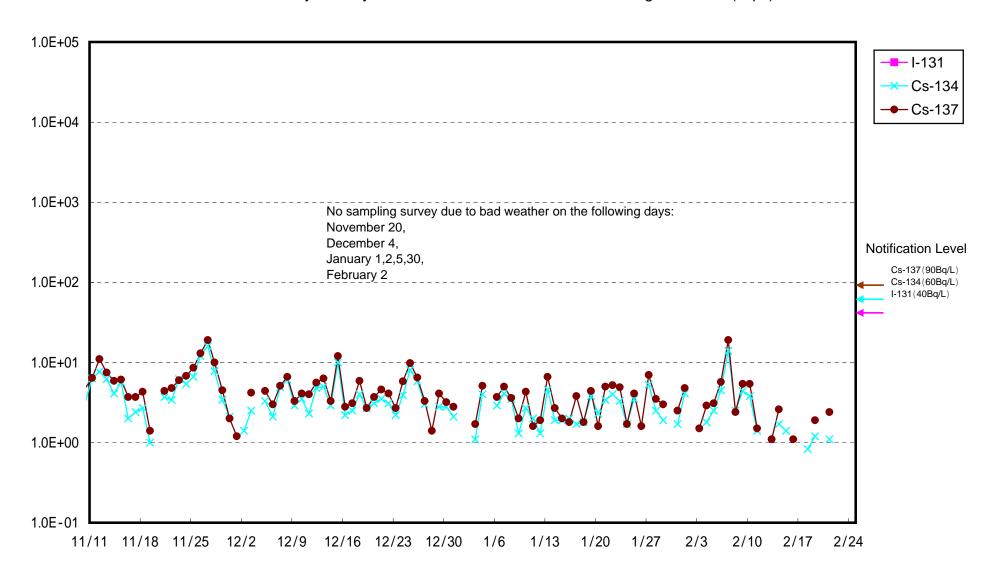
<sup>\*</sup> In the case that two or more kinds of nuclides exist, sum of each scaling factor to the density limit is compared with 1.

<sup>\* &</sup>quot;ND" means the sampled data is below measurable limit. I-131: approx. 0.64Bq/L Please note that these nuclides are sometimes detected even when they are below the limits, contingent on the detector or samples.

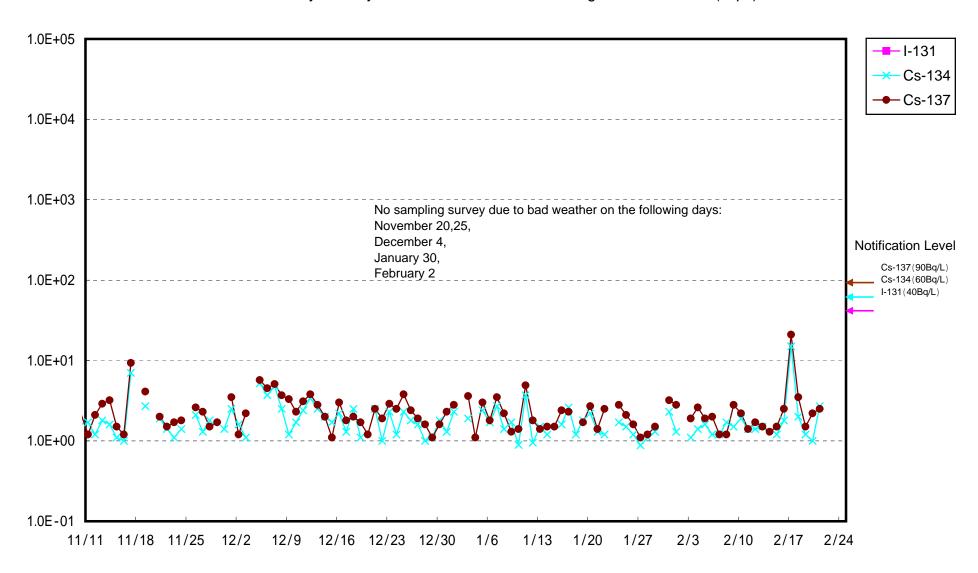
# Radioactivity Density of Seawater (Bq/L)



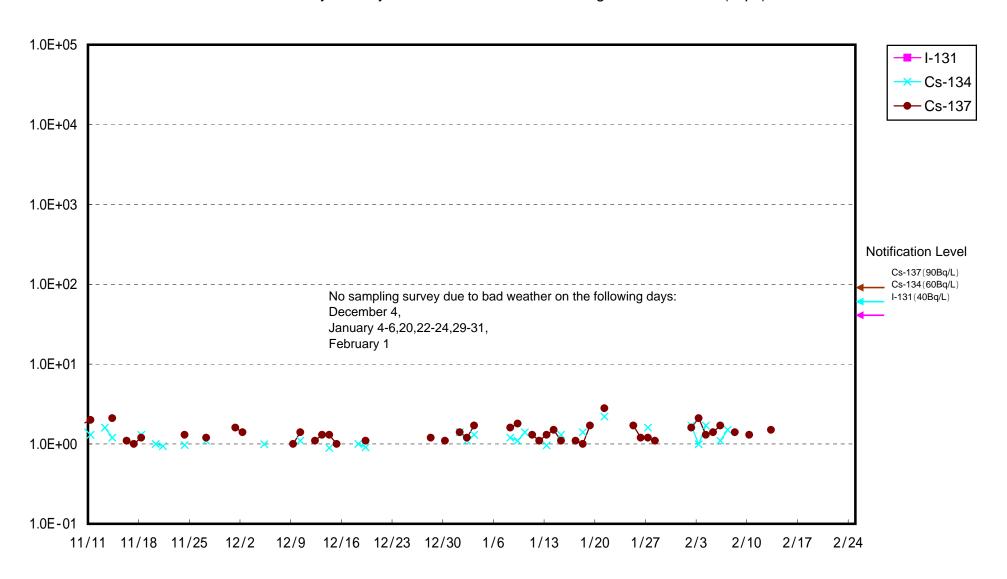
# Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



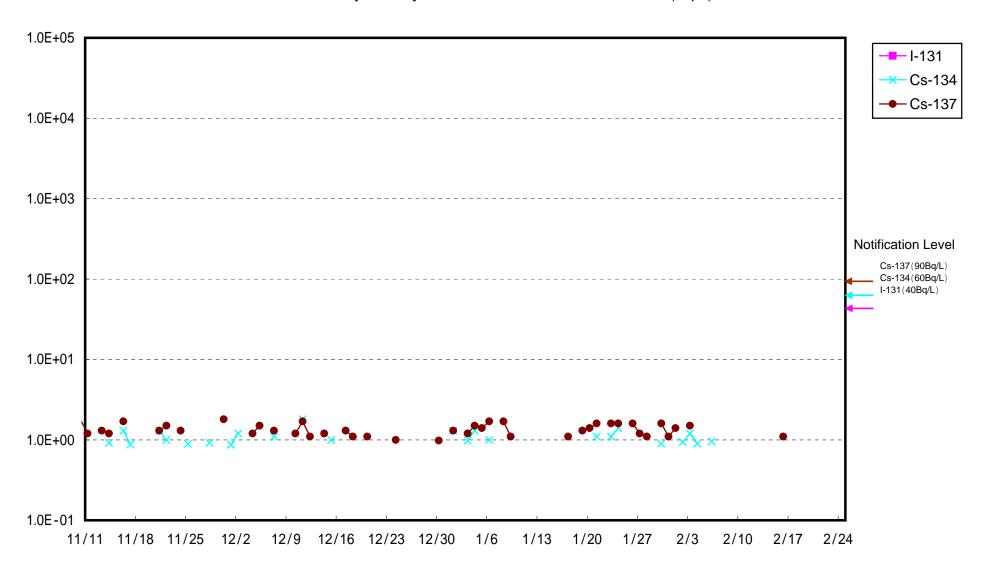
# Radioactivity Density of Seawater at South Discharge Channel of 1F (Bq/L)

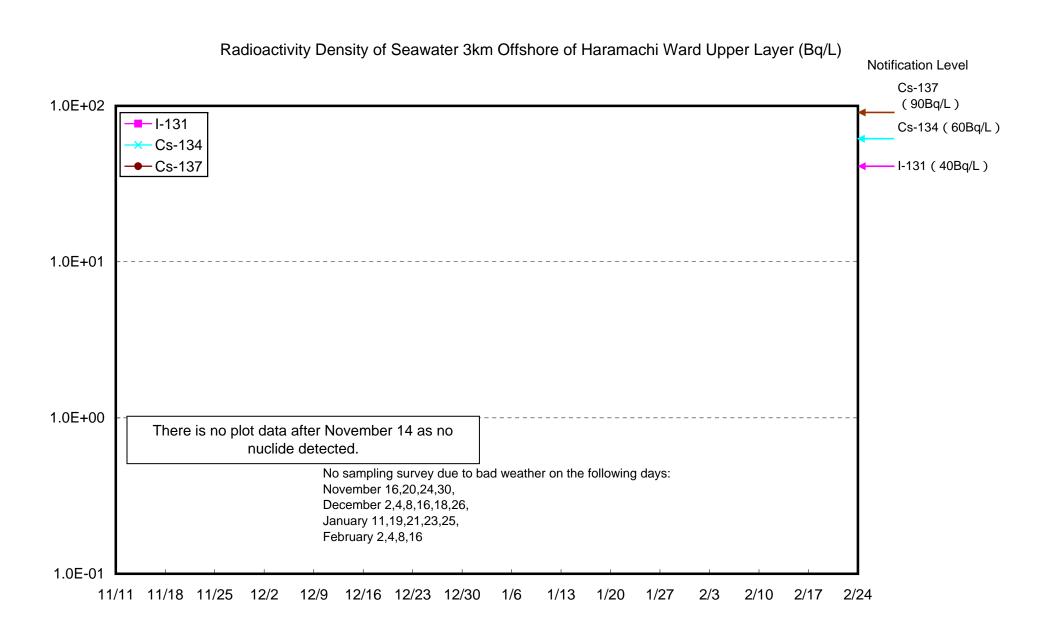


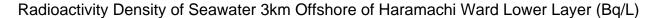
# Radioactivity Density of Seawater at North Discharge Channel of 2F (Bq/L)

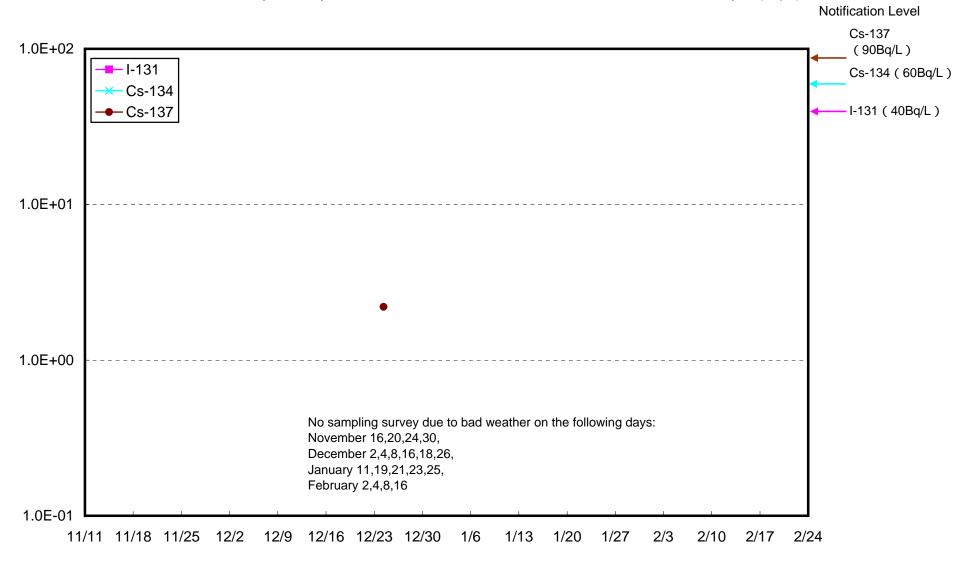


# Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)

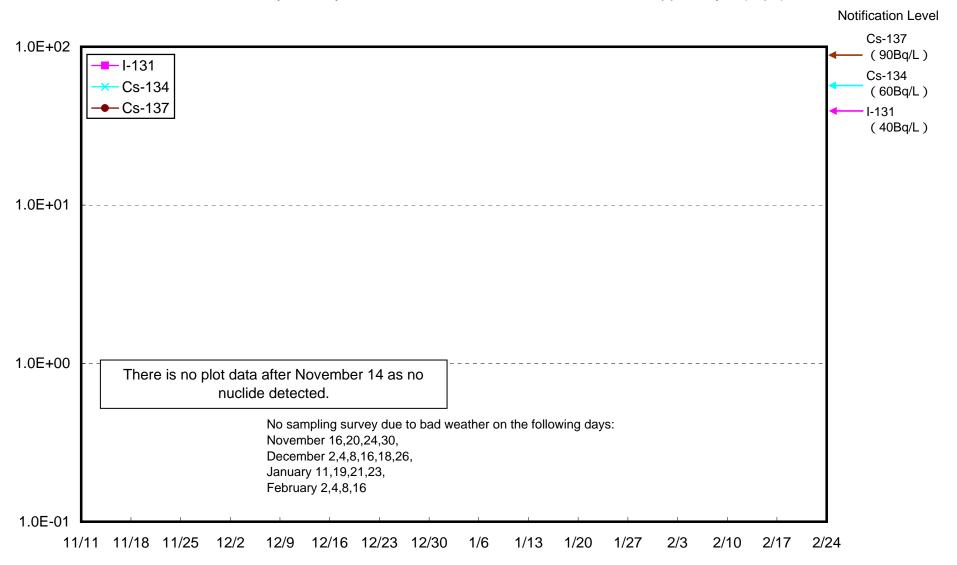








#### Radioactivity Density of Seawater 3km Offshore of Odaka Ward Upper Layer (Bq/L)



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

