Nuclide Analysis Results of Radioactive Materials in Seawater <Coast>

Reference

(Data summarized on March 7)

Place of Sampling	North of Discha of 5-6u ((approx. 30m n discharge c	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 u Discharge nel)	Around Iwasawa (appox. 7 km s Discharge ((appox. 16 kr	south of 1,2u Channel)	Density limit by the announcement of Reactor Regulation (Bq/L)	
Time of Sampling	Mar 06, 08:40		Mar 06, 08:20		Mar 06, 08:20		Mar 06, 08:00	2012	(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 Scaling Sample Factor (Bq/L) (/)		areas in the section 6 of the appendix 2)	
l-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	40	
Cs-134 (about 2 years)	0.92	0.02	ND	-	ND	-	ND	-	60	
Cs-137 (about 30 years)	2.1	0.02	ND	-	ND -		ND -		90	

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 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. 0.63Bq/L, Cs-134: approx. 0.86Bq/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.

Nuclide Analysis Results of Radioactive Materials in Seawater < Offshore 1/3>

Reference

												(Data s	summarized on March 7)
Place of Sampling	3 km offsh Haramachi Wa Layei	ard Upper	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 Iwasawa shore Lower Layer		Density limit by the announcement of Reactor Regulation
Time of Sampling	Mar 05, 2 (Not sam)		Mar 05, 2012 (Not sampled)		Mar 05, 2012 (Not sampled)		Mar 05, 2012 (Not sampled)		Mar 05, 2012 (Not sampled)		Mar 05, 2012 (Not sampled)		(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)
l-131 (about 8 days)	-	-	-	-	-	-	-	-	-	-	-	-	40
Cs-134 (about 2 years)	-	-	-	-	-	-	-	-	-	-	-	-	60
Cs-137 (about 30 years)	-	-	-	-	-	-	-	-	-	-	-	-	90

Place of Sampling	8 km offshore Ward Upper		8 km offshore Ward Lower		8 km offsh Iwasawa sho Layei	re Upper	8 km offsh Iwasawa sho Layei	re Lower					Density limit by the announcement of Reactor Regulation	
Time of Sampling	Mar 05, 2 (Not sam)		Mar 05, 2 (Not sam		Mar 05, 2 (Not sam)		Mar 05, 2 (Not sam)						(Bq/L) (the density limit in the water outside of	
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 (/)	surrounding monitored areas in the section 6 of the appendix 2)	
l-131 (about 8 days)	-	-	-	-	-	-	-	-					40	
Cs-134 (about 2 years)	-	-	-	-	-	-	-	-					60	
Cs-137 (about 30 years)	-	-	-	-	-	-	-	-					90	

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

(Not sampled in 9 locations out of 12 due to bad weather)

Nuclide Analysis Results of Radioactive Materials in Seawater < Offshore 2/3>

Reference

(Data summarized on March 7)

Place of Sampling	3 km offshore o Iwaki Uppe		f 3 km offshore of North of Iwaki Lower Layer		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	Mar 05, 2 (Not sam		Mar 05, 2 (Not sam)		Mar 05, 2 (Not sam)		Mar 05, 2 (Not sam)		N/A		N/A		(Bq/L) (the density limit in the water outside of
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 (/)	surrounding monitored areas in the section 6 of the appendix 2)
l-131 (about 8 days)	-	-	-	-	-	-	-	-	-	-	-	-	40
Cs-134 (about 2 years)	-	-	-	-	-	-	-	-	-	-	-	-	60
Cs-137 (about 30 years)	-	-	-	-	-	-	-	-	-	-	-	-	90

Place of Sampling	3 km offshore Upper La		3 km offshore of Ena Lower Layer		3 km offshore of Numanouchi Upper Layer		3 km offsh Numanouch Layei	i Lower	3 km offshore of Toyoma Upper Layer		a 3 km offshore of Toyoma Lower Layer		announcement of Reactor Regulation
Time of Sampling	N/A		N/A		Mar 05, 2 (Not sam		Mar 05, 2 (Not sam		Mar 05, 2 (Not sam		Mar 05, 2012 (Not sampled)		(Bq/L) (the density limit in the water outside of
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 (/)	surrounding monitored areas in the section 6 of the appendix 2)
l-131 (about 8 days)	-	-	-	-	-	-	-	-	-	-	-	-	40
Cs-134 (about 2 years)	-	-	-	-	-	-	-	-	-	-	-	-	60
Cs-137 (about 30 years)	-	-	-	-	-	-	-	-	-	-	-	-	90

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

(Not sampled in 9 locations out of 12 due to bad weather)

Nuclide Analysis Results of Radioactive Materials in Seawater <Offshore 3/3>

Reference

(Data summarized on March 7)

Place of Sampling	3 km offshore City Upper		3 km offshore of Souma City Lower Layer		5 km offshore of Souma City Upper Layer		5 km offshore of Souma City Lower Layer		5 km offshore of Kashima Upper Layer		5 km offshore of Kashima Lower Layer		Density limit by the announcement of Reactor Regulation
Time of Sampling	Mar 05, 2 06:40 a		Mar 05, 2 06:40 a		Mar 05, 2 06:50 a		Mar 05, 2012 06:50 am		Mar 05, 2012 07:10 am		Mar 05, 2012 07:10 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)
l-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 Time of Sampling	5km Offsh Numanouch Layer N/A	i Upper	5km Offsho Numanouch Layer N/A	i Lower									Density limit by the announcement of Reactor Regulation (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)
l-131 (about 8 days)	-	-	-	-									40
Cs-134 (about 2 years)	-	-	-	-									60
Cs-137 (about 30 years)	-	-	-	-									90

* Density by the announcement of Reactor Regulation is stated with an amount converted from Bq/cm3 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. 0.98Bq/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.

(Not sampled in 9 locations out of 12 due to bad weather)

Result of Pu Analysis of Seawater

1. Place of Sampling:

North Discharge Channel of Unit 5 and 6 of Fukushima Daiichi Nuclear Power Station Around South Discharge Channel of Fukushima Daiichi Nuclear Power Station Upper Layer around approx. 15km offshore of Fukushima Daiichi Nuclear Power Station Upper Layer around approx. 15km offshore of Fukushima Daini Nuclear Power Station

- 2. Analysis Institute: Japan Chemical Analysis Center
- 3. Result of Measurement:

(Unit:Bq/L)

Place of Sampling	Date	Pu-238	Pu-239, Pu-240
North Discharge Channel		N.D. [<4.7×10 ⁻⁴]	N.D. [<4.9×10 ⁻⁴]
of Unit 5 and 6 of 1F	2/13	N.D. [<4.7×10]	N.D. [<4.9×10]
Around South Discharge	2/15	N.D. [<5.3×10 ⁻⁴]	N.D. [<5.3×10 ⁻⁴]
Channel of 1F		N.D. [<3.3×10]	N.D. [<3.3×10]
Upper Layer around			
approx. 15km offshore		N.D. [<6.0×10 ⁻⁶]	N.D. [<5.4×10 ⁻⁶]
of 1F	2/15		
Upper Layer around	2/13		
approx. 15km offshore		N.D. [<5.4×10 ⁻⁶]	N.D. [<5.7×10 ⁻⁶]
of 2F			

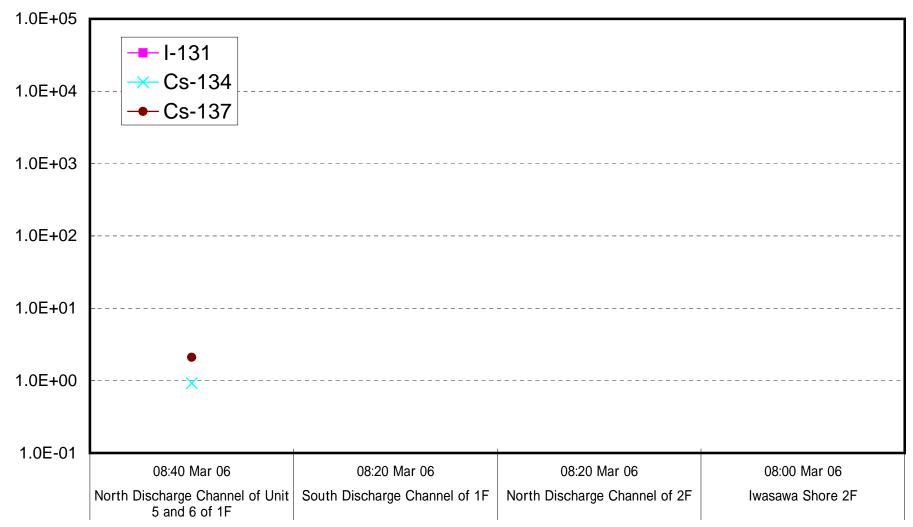
The value inside [] means detection limit.

4. Evaluation:

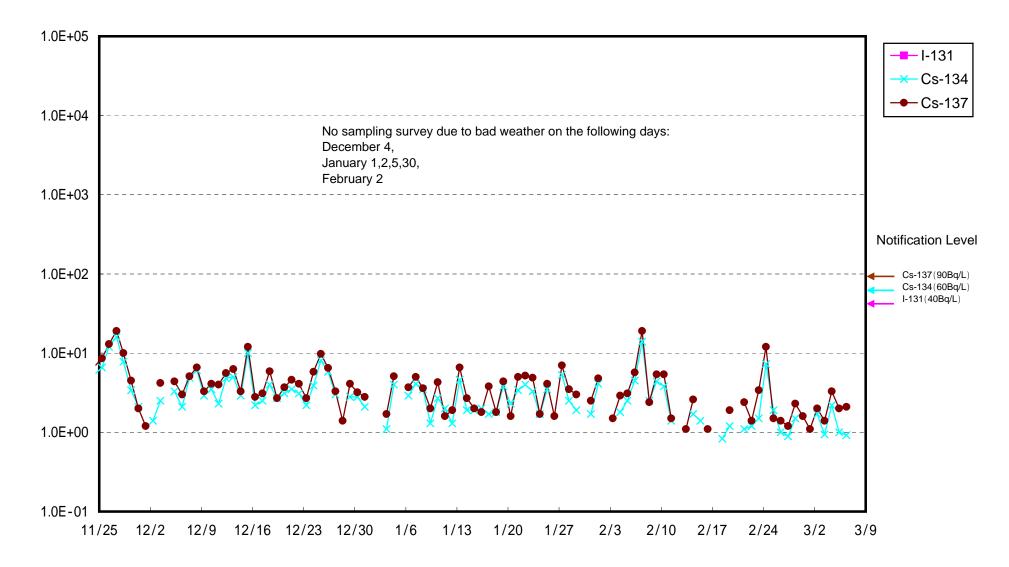
Pu-238, Pu-239, Pu-240 were not detected in the sample collected this time

End

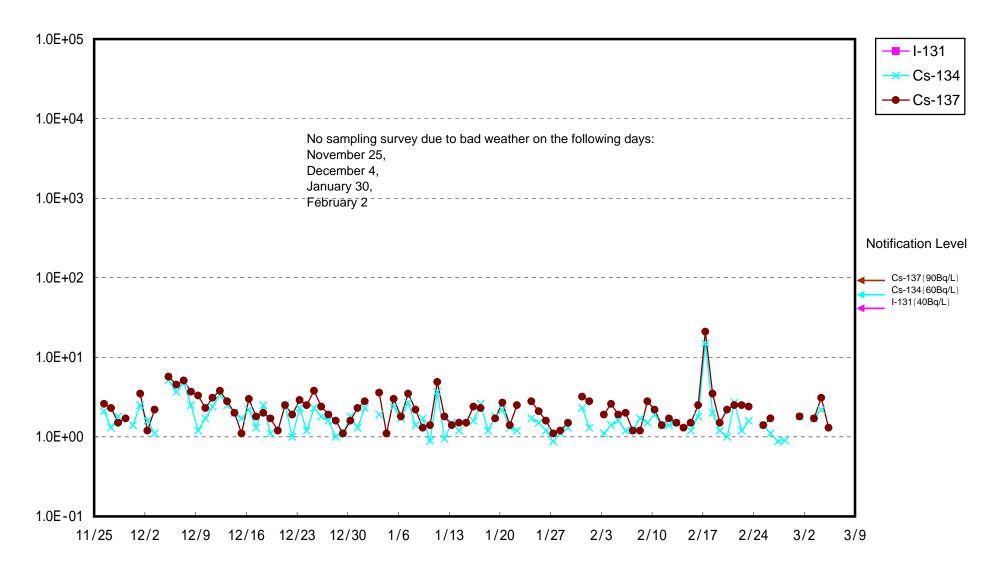
Radioactivity Density of Seawater (Bq/L)



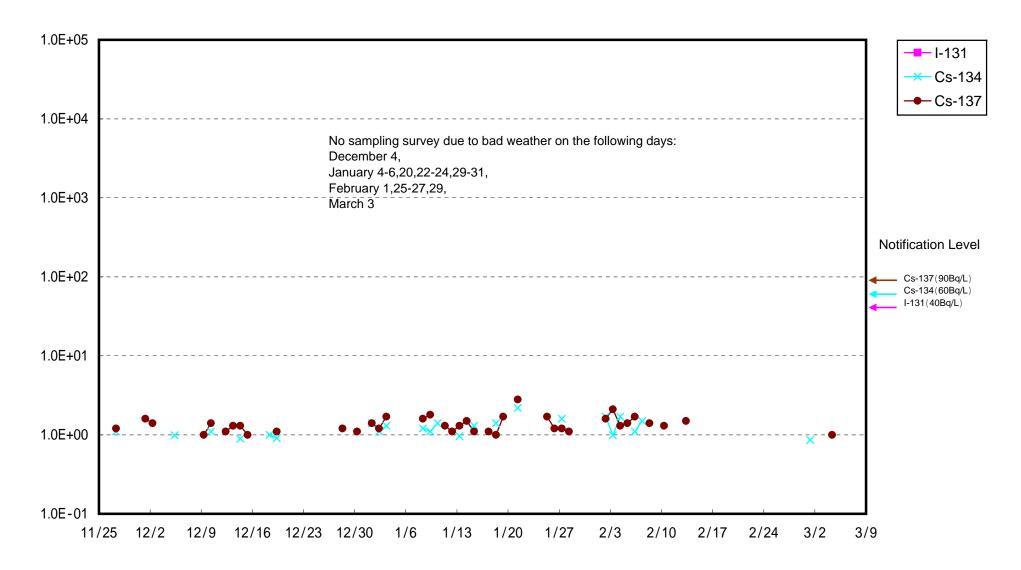
Radioactivity Density of Seawater at North of 1F5-6 Discharge Channel (Bq/L)



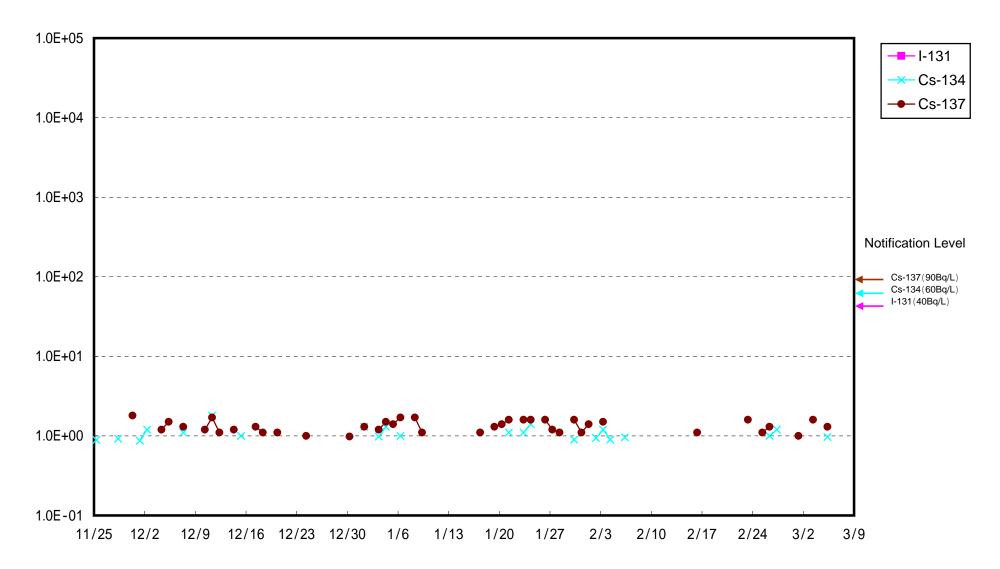
Radioactivity Density of Seawater at South Discharge Channel of 1F (Bq/L)

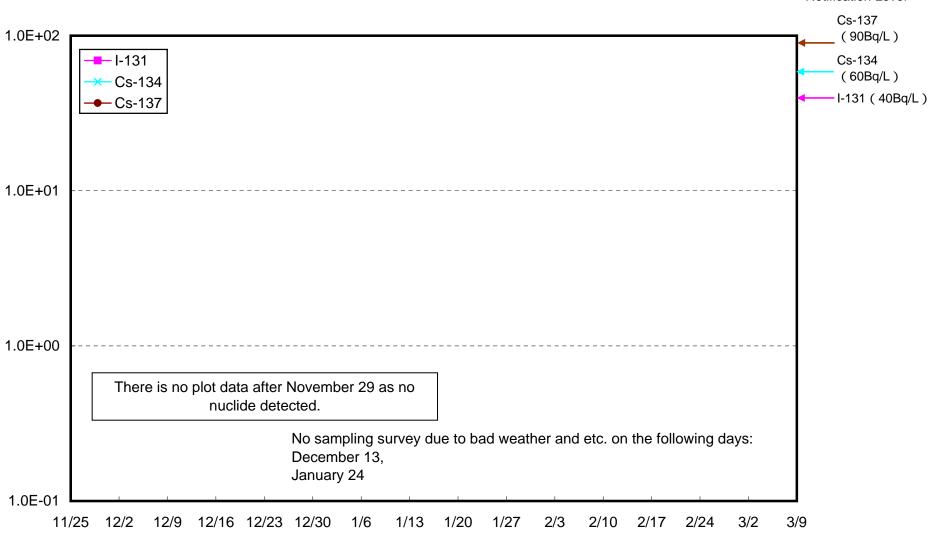


Radioactivity Density of Seawater at North Discharge Channel of 2F (Bq/L)

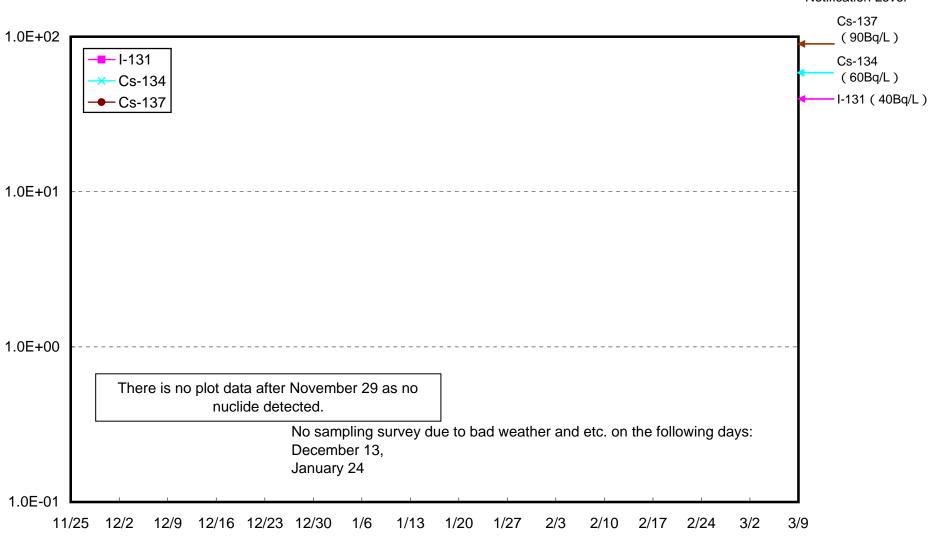


Radioactivity Density of Seawater at Iwasawa Shore 2F (Bq/L)

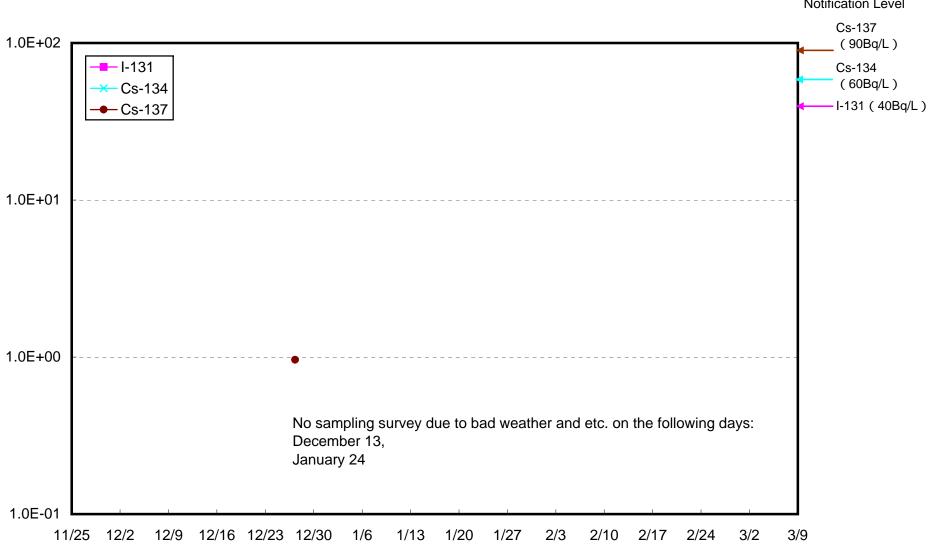




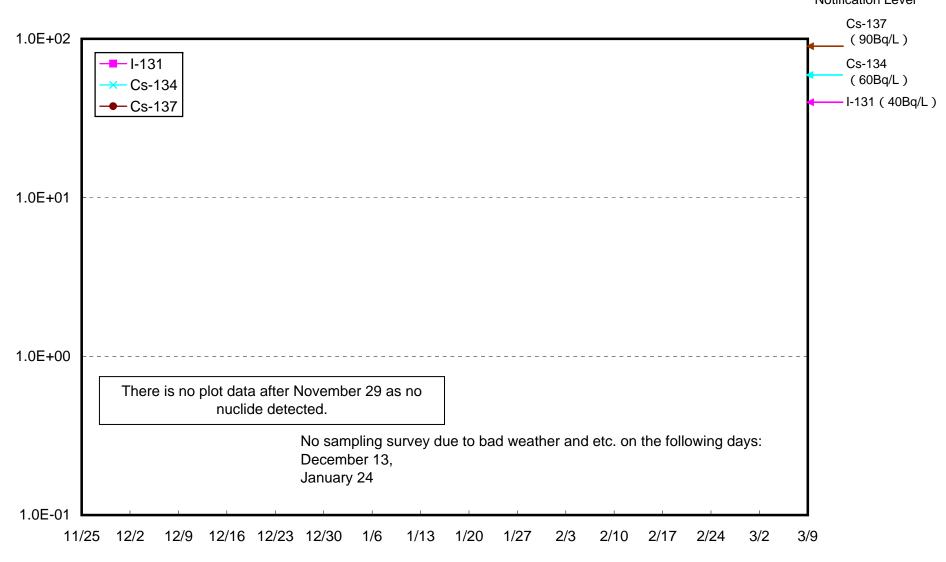
Radioactivity Density of Seawater around approx. 3 km offshore of Soma City Upper Layer (Bq/L) Notification Level



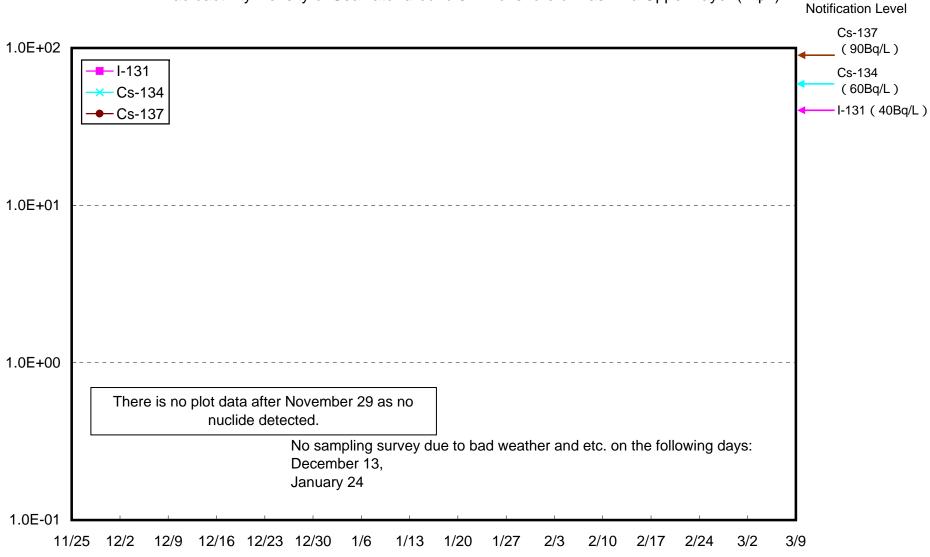
Radioactivity Density of Seawater around approx. 3 km offshore of Soma City Lower Layer (Bq/L) Notification Level



Radioactivity Density of Seawater around approx. 5 km offshore of Souma City Upper Layer (Bq/L) Notification Level



Radioactivity Density of Seawater around approx. 5 km offshore of Souma City Lower Layer (Bq/L) Notification Level



Radioactivity Density of Seawater around 5 km offshore of Kashima Upper Layer (Bq/L)

