

Results of Nuclide Analysis of Seawater <Coast>

Reference

(Data summarized on August 21)

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)				Around North Discharge Channel of 2F (Around 3,4u Discharge Channel) (approx. 10 km from 1F)		Around Iwasawa Shore of 2F (approx. 7 km south of 1,2u Discharge Channel) (approx. 16 km from 1F)		Density limit by the announcement of Reactor Regulation (Bq/L)		
Time and Date of Sample Collection	10:10 am on August 20, 2011	9:45 am on August 20, 2011		3:20 pm on August 20, 2011		8:10 am on August 20, 2011		7:45 am on August 20, 2011		(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 (/)	Density of Sample (Bq/L)		Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND		-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	ND	-	ND		-	60
Cs-137 (about 30 years)	ND	-	ND	-	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.

In the case that the data is below measurable limit, "ND" is stated.

Detection limits at Fukushima Daiichi (north of water discharge channel of Units 5 and 6, south discharge channel) are as follows:

I-131: approx. 9 Bq/L, Cs-134: approx. 21 Bq/L, and Cs-137: approx. 24Bq/L.

Detection limits at Fukushima Daini (Near North discharge canal, Iwasawa shore) are as follows:

I-131: approx. 4 Bq/L, Cs-134: approx. 6 Bq/L, and Cs-137: approx. 9Bq/L.

Results of Nuclide Analysis of Seawater <Offshore1/3>

Reference

(Data summarized on August 21)

Place of Sampling	3 km offshore of Haramachiku 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 Iwasawa shore Lower 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)
	Time and Date of Sample Collection	August 20, 2011 Cancel led		August 20, 2011 Cancel led		August 20, 2011 Cancel led		August 20, 2011 Cancel led		August 20, 2011 Cancel led			
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 (/)	
I-131 (about 8 days)	/	/	/	/	/	/	/	/	/	/	/	/	40
Cs-134 (about 2 years)	/	/	/	/	/	/	/	/	/	/	/	/	60
Cs-137 (about 30 years)	/	/	/	/	/	/	/	/	/	/	/	/	90

Place of Sampling	8 km offshore of Odaka Ward Upper layer		8 km offshore of Odaka Ward Lower layer		8 km offshore of Iwasawa shore Upper layer		8 km offshore of Iwasawa shore Lower 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)
	Time and Date of Sample Collection	August 20, 2011 Cancel led		August 20, 2011 Cancel led		August 20, 2011 Cancel led		August 20, 2011 Cancel led					
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 (/)	
I-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

Results of Nuclide Analysis of Seawater <Offshore2/3>

Reference

(Data summarized on August 21)

Place of Sampling	3 km offshore of Iwaki Upper layer		3 km offshore 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 (Bq/L) (the density limit in the water outside of surrounding monitored areas in the section 6 of the appendix 2)
	Time and Date of Sample Collection	4:50 am on August 20, 2011		4:50 am on August 20, 2011		5:55 am on August 20, 2011		5:55 am on August 20, 2011		N.A.		N.A.	
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 (/)	
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

Place of Sampling	3 km offshore of Ena Upper layer		3 km offshore of Ena Lower layer		3 km offshore of Numanouchi Upper layer		3 km offshore of Numanouchi Lower layer		3 km offshore of Toyoma Upper layer		3 km offshore of Toyoma Lower 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)
	Time and Date of Sample Collection	N.A.		N.A.		5:40 am on August 20, 2011		5:40 am on August 20, 2011		5:25 am on August 20, 2011		5:25 am on August 20, 2011	
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 (/)	
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

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.

In this analysis, "ND" means that the results fall below the detection limits.

(I-131: approx. 4Bq/L, Cs-134: approx. 6Bq/L, and Cs-137: approx. 9Bq/L)

Results of Nuclide Analysis of Seawater <Offshore3/3>

Reference

(Data summarized on August 21)

Place of Sampling	Numanouchi Offshore 5km Upper Layer		Numanouchi Offshore 5km Lower Layer		Numanouchi Offshore 15km Upper Layer		Numanouchi Offshore 15km Middle Layer		Numanouchi Offshore 15km Lower Layer		Numanouchi Offshore 30km 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)
	N.A.		N.A.		August 20, 2011 Canceled		August 20, 2011 Canceled		August 20, 2011 Canceled		August 20, 2011 Canceled		
Time and Date of Sample Collection	Density of Sample (Bq/cm3)	Scaling Factor (/)	Density of Sample (Bq/cm3)	Scaling Factor (/)	Density of Sample (Bq/cm3)	Scaling Factor (/)	Density of Sample (Bq/cm3)	Scaling Factor (/)	Density of Sample (Bq/cm3)	Scaling Factor (/)	Density of Sample (Bq/cm3)	Scaling Factor (/)	
I-131 (about 8 days)	/	/	/	/	/	/	/	/	/	/	/	/	40
Cs-134 (about 2 years)	/	/	/	/	/	/	/	/	/	/	/	/	60
Cs-137 (about 30 years)	/	/	/	/	/	/	/	/	/	/	/	/	90

Place of Sampling	Numanouchi Offshore 30km Middle Layer		Numanouchi Offshore 30km Lower 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)
	August 20, 2011 Canceled		August 20, 2011 Canceled		/		/		/		/		
Time and Date of Sample Collection	Density of Sample (Bq/cm3)	Scaling Factor (/)	Density of Sample (Bq/cm3)	Scaling Factor (/)	Density of Sample (Bq/cm3)	Scaling Factor (/)	Density of Sample (Bq/cm3)	Scaling Factor (/)	Density of Sample (Bq/cm3)	Scaling Factor (/)	Density of Sample (Bq/cm3)	Scaling Factor (/)	
I-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