

Results of Nuclide Analysis of Seawater <Coast>

Reference

(Data summarized on June 3)

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/cm ³) (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	9:15 June 2, 2011	14:00 June 2, 2011	9:00 June 2, 2011	13:45 June 2, 2011	9:05 June 2, 2011	8:05 June 2, 2011						
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	71	1.2	53	0.88	48	0.80	24	0.40	26	0.43	68	1.1	60
Cs-137 (about 30 years)	70	0.78	58	0.64	53	0.59	28	0.31	26	0.29	63	0.70	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 (approximately 7Bq/L for I-131, approximately 15Bq/L for Cs-137), "ND" is stated.

Results of Nuclide Analysis of Seawater <Offshore 1/4>

Reference

(Data summarized on June 3)

Place of Sampling	15 km offshore of Minamisoma City		15 km offshore of Ukedo-gawa		15 km offshore of Fukushima Daiichi		15 km offshore of Fukushima Daini		15 km offshore of Iwasawa Shore		15 km offshore of Hirono-machi		Density limit by the announcement of Reactor Regulation (Bq/cm ³) (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	At 9:00 June 2, 2011		At 8:40 June 2, 2011		At 8:20 June 2, 2011		At 7:55 June 2, 2011		At 7:30 June 2, 2011		At 7:05 June 2, 2011		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	
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	3 km offshore of Haramachi-ku		3 km offshore of Odaka-ku		3 km offshore of Iwasawa Shore		8 km offshore of Odaka-ku		8 km offshore of Iwasawa Shore				Density limit by the announcement of Reactor Regulation (Bq/cm ³) (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	June 2, 2011 sampling suspended		At 9:10 June 2, 2011		At 7:10 June 2, 2011		June 2, 2011 sampling suspended		June 2, 2011 sampling suspended				
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	
I-131 (about 8 days)	/	/	ND	-	ND	-	/	/	/	/	/	/	40
Cs-134 (about 2 years)	/	/	16	0.27	16	0.27	/	/	/	/	/	/	60
Cs-137 (about 30 years)	/	/	ND	-	17	0.19	/	/	/	/	/	/	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.

Sampling was conducted in the upper layer unless stated otherwise.

In the case that the data is below measurable limit (approximately 7Bq/L for I-131, approximately 15Bq/L for Cs-137), "ND" is stated.

Results of Nuclide Analysis of Seawater <Offshore 2/4>

Reference

(Data summarized on June 3)

Place of Sampling	3 km offshore of northern Iwaki City, upper layer	3 km offshore of northern Iwaki City, 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/cm ³) (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	June 2, 2011 sampling suspended	June 2, 2011 sampling suspended	June 2, 2011 sampling suspended	June 2, 2011 sampling suspended	At 5:40 June 2, 2011	At 5:40 June 2, 2011	
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³) Scaling Factor (/)	Density of Sample (Bq/cm ³) Scaling Factor (/)	Density of Sample (Bq/cm ³) Scaling Factor (/)	Density of Sample (Bq/cm ³) Scaling Factor (/)	Density of Sample (Bq/cm ³) Scaling Factor (/)	Density of Sample (Bq/cm ³) Scaling Factor (/)	
I-131 (about 8 days)	/	/	/	/	/	/	40
Cs-134 (about 2 years)	/	/	/	/	/	/	60
Cs-137 (about 30 years)	/	/	/	/	/	/	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/cm ³) (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	At 6:00 June 2, 2011	At 6:00 June 2, 2011	June 2, 2011 sampling suspended	June 2, 2011 sampling suspended	June 2, 2011 sampling suspended	June 2, 2011 sampling suspended	
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³) Scaling Factor (/)	Density of Sample (Bq/cm ³) Scaling Factor (/)	Density of Sample (Bq/cm ³) Scaling Factor (/)	Density of Sample (Bq/cm ³) Scaling Factor (/)	Density of Sample (Bq/cm ³) Scaling Factor (/)	Density of Sample (Bq/cm ³) Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-	/	/	40
Cs-134 (about 2 years)	10	0.17	12	0.20	/	/	60
Cs-137 (about 30 years)	15	0.17	15	0.17	/	/	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.

Sampling was conducted in the upper layer unless stated otherwise.

In the case that the data is below measurable limit (approximately 7Bq/L for I-131, approximately 15Bq/L for Cs-137), "ND" is stated.

Results of Nuclide Analysis of Seawater <Offshore 3/4>

Reference

(Data summarized on June 3)

Place of Sampling	30km off shore of Minami soma City upper layer		30km off shore of Minami soma City middle layer		30km off shore of Minami soma City lower layer		30km off shore of Ukedo-river upper layer		30km off shore of Ukedo- river middle layer		30km off shore of Ukedo-river lower layer		Density limit by the announcement of Reactor Regulation (Bq/cm ³) (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	At 7:50 June 2, 2011		At 7:50 June 2, 2011		At 7:50 June 2, 2011		At 6:50 June 2, 2011		At 6:50 June 2, 2011		At 6:50 June 2, 2011		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (about 2 years)	ND	-	ND	-	ND	-	4.5	0.08	ND	-	ND	-	60
Cs-137 (about 30 years)	ND	-	4.8	0.05	ND	-	5.4	0.06	ND	-	ND	-	90

Place of Sampling	5km off shore of Soma City upper layer		5km off shore of Soma City lower layer		5km off shore of Kashima upper layer		5km off shore of Kashima lower layer		3km off shore of Soma City upper layer		3km off shore of Soma City lower layer		Density limit by the announcement of Reactor Regulation (Bq/cm ³) (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	At 6:20 June 2, 2011		At 6:20 June 2, 2011		At 6:00 June 2, 2011		At 6:00 June 2, 2011		At 6:35 June 2, 2011		At 6:35 June 2, 2011		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	
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	-	16	0.18	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.

Sampling was conducted in the upper layer unless stated otherwise.

In the case that the data is below measurable limit (approximately 7Bq/L for I-131, approximately 15Bq/L for Cs-137), "ND" is stated.

Results of Nuclide Analysis of Seawater <Offshore 4/4>

Reference

(Data summarized on June 3)

Place of Sampling	5km off shore of Numanouchi upper layer		5km off shore of Numanouchi lower layer		15km off shore of Numanouchi upper layer		15km off shore of Numanouchi middle layer		15km off shore of Numanouchi lower layer		30km off shore of Numanouchi upper layer		Density limit by the announcement of Reactor Regulation (Bq/cm ³) (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	At 7:00 June 2, 2011		At 7:00 June 2, 2011		At 8:00 June 2, 2011		At 8:00 June 2, 2011		At 8:00 June 2, 2011		At 9:00 June 2, 2011		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	
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	-	16	0.18	ND	-	ND	-	ND	-	ND	-	90

Place of Sampling	30km off shore of Numanouchi middle layer		30km off shore of Numanouchi lower layer		/		/		/		/		Density limit by the announcement of Reactor Regulation (Bq/cm ³) (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	At 9:00 June 2, 2011		At 9:00 June 2, 2011		/		/		/		/		
Detected Nuclides (Half-life)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	Density of Sample (Bq/cm ³)	Scaling Factor (/)	
I-131 (about 8 days)	ND	-	ND	-	/	/	/	/	/	/	/	/	40
Cs-134 (about 2 years)	ND	-	ND	-	/	/	/	/	/	/	/	/	60
Cs-137 (about 30 years)	ND	-	ND	-	/	/	/	/	/	/	/	/	90

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Sampling was conducted in the upper layer unless stated otherwise.

In the case that the data is below measurable limit (approximately 7Bq/L for I-131, approximately 15Bq/L for Cs-137), "ND" is stated.