Reference

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station >

(Data summarized on December 19)

Place of Sampling	North of Unit 5-6 Discharge Daiichi N (Approx. 30m North of Unit 5	IPS	Around South Discharge C Daiichi N (Appox. 1.3km South of Unit	Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in		
Time of Sampling	Dec 18, 2 7:10 A		Dec 18, 2 7:40 A			
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	section 6 of Appendix 2.)	
I-131 (Approx. 8 days)	ND	-	ND	-	40	
Cs-134 (Approx. 2 years)	ND	-	ND	-	60	
Cs-137 (Approx. 30 years)	ND	-	ND	-	90	

^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

I-131: Approx. 0.46Bq/L, Cs-134: Approx. 1.1Bq/L, Cs-137: Approx. 1.4Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

^{*} Data of other nuclides is under evaluation.

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

 $[\]ensuremath{^{*}}$ "ND" indicates that the measurement result is below the detection limit.

Reference

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station, Remeasurement >

(Data summarized on December 19)

Place of Sampling	North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS (Approx. 30m North of Unit 5-6 Discharge Channel) Around South Discharge Channel of Fukushima Daiichi NPS (Appox. 330m South of Unit 1-4 Discharge Channel)							
Time of Sampling	Nov 12, 2 10:00 A		Nov 12, 2 8:00 A	(The density limit in the water outside the surrounding monitored areas is provided in				
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	section 6 of Appendix 2.)			
Cs-134 (Approx. 2 years)	0.96	0.02	0.52	0.01	60			
Cs-137 (Approx. 30 years)	1.6	0.02	0.85	0.01	90			

^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{*} Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

^{*} Analyzed by : Tokyo Electric Power Environmental Engineering Co., Inc.

Reference

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daini Nuclear Power Station >

(Data summarized on December 19)

Place of Sampling	2F Around the North D (Around Unit 3-4 Disc (Approx. 10km	charge Channel)	Around the North Sid (Approx. 12km South of I Chann (Approx. 24km	Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in		
Time of Sampling	Nov 13, 2 10:10 A		Nov 13, 2 7:25 A			
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor	Density of Sample (Bq/L)	Scaling Factor	section 6 of Appendix 2.)	
I-131 (Approx. 8 days)	ND	-	ND	-	40	
Cs-134 (Approx. 2 years)	0.38	0.01	0.67	0.01	60	
Cs-137 (Approx. 30 years)	0.66	0.01	1.1	0.01	90	

^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

I-131: Approx. 0.58Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

^{*} Data of other nuclides is under evaluation.

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{* &}quot;ND" indicates that the measurement result is below the detection limit.

^{*} As to Cs-134 and Cs-137, analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted. Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore 1/2 >

(Data summarized on December 19)

Place of Sampling (Place No.)	*1 3km Offshore of Odaka Ward (T-14)				3km Off	kedo River (T-	3km Offshore	of Fukush	Density Limit Specified by the Reactor Regulation				
	Upper La	ayer	Lower La	ıyer	Upper La	yer	Lower La	yer	Upper La	yer	Lower La	ayer	(Bq/L)
Time of Sampling	Nov 9, 20 9:15 Al		Nov 9, 20 9:15 Al	_	Nov 13, 2 9:40 A		Nov 13, 2 9:40 A		Nov 13, 2 10:10 A		Nov 13, 2 10:10 A		(The density limit in the water outside the 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 is provided in section 6 of Appendix 2.)
Cs-134 (Approx. 2 years)	0.020	0.00	0.020	0.00	0.088	0.00	0.040	0.00	0.054	0.00	0.032	0.00	60
Cs-137 (Approx. 30 years)	0.035	0.00	0.036	0.00	0.15	0.00	0.064	0.00	0.090	0.00	0.048	0.00	90

Place of Sampling (Place No.)	3km Offshore	e of Fukus	shima Daini NPS	*2 S (T-D9)	15km Offshor	*1 15km Offshore of Fukushima Daiichi NPS (T-5)				hore of lw	Density Limit Specified by the Reactor Regulation		
	Upper La	ayer	Lower La	ayer	Upper La	ayer	Lower La	ayer	Upper La	ayer	Lower La	ayer	(Bq/L)
Time of Sampling	Nov 15, 2 9:55 Al		Nov 15, 2 9:55 A		Nov 8, 2 8:50 A		Nov 8, 2 8:50 A		Nov 8, 2 7:20 A	NOV 8, 2012 \		(The density limit in the water outside the 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 is provided in section 6 of Appendix 2.)
Cs-134 (Approx. 2 years)	0.037	0.00	0.039	0.00	ND	-	0.0025	0.00	0.012	0.00	0.013	0.00	60
Cs-137 (Approx. 30 years)	0.065	0.00	0.062	0.00	0.0026	0.00	0.0059	0.00	0.020	0.00	0.023	0.00	90

^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

^{* &}quot;ND" indicates that the measurement result is below the detection limit. Cs-134: Approx.0.0011Bq/L

^{*} Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

^{*} Analyzed by: *1 THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD., *2 Tokyo Electric Power Environmental Engineering Co., Inc.

Nuclides Analysis Result of the Radioactive Materials in the Seawater < Offshore 2/2 >

(Data summarized on December 19)

Place of Sampling (Place No.)	3km Olishore of Northern Iwaki City (1-12)					1km Offshore of Natsui River (T-17-1) Upper Layer Lower Layer					3km Offshore of Toyoma (T-20) Upper Layer Lower Layer				
	Upper La	,	Lower La	,	• • • • • • • • • • • • • • • • • • • •			,	Upper La	•			(Bq/L) (The density limit in the		
Time of Sampling	Nov 10, 2 7:10 Al	-	Nov 10, 2 7:10 A	-	Nov 10, 2 6:50 A		Nov 10, 2 6:50 A	-	Nov 10, 2 6:15 A		Nov 10, 2012 6:15 AM		water outside the 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 is provided in section 6 of Appendix 2.)		
Cs-134 (Approx. 2 years)	0.060	0.00	0.061	0.00	0.036	0.00	0.039	0.00	0.0094	0.00	0.017	0.00	60		
Cs-137 (Approx. 30 years)	0.096	0.00	0.10	0.00	0.059	0.00	0.064	0.00	0.016	0.00	0.029	0.00	90		

Place of Sampling (Place No.)	Around 4km Upper La		of Kumagawa Lower La	(T-S8)	Upper La	aver	Lower La	aver	Upper La	aver	ayer	Density Limit Specified by the Reactor Regulation (Bq/L)	
Time of Sampling	Nov 9, 2 6:35 A	012	Nov 9, 2 6:40 A	012	Оррег Ег	Ayer .	Lower La	1901	Оррен Да	Ayer .	Lower La	ayer —	(The density limit in the water outside the 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	areas is provided in section 6 of Appendix 2.)						
Cs-134 (Approx. 2 years)	0.075	0.00	0.056	0.00									60
Cs-137 (Approx. 30 years)	0.12	0.00	0.092	0.00									90

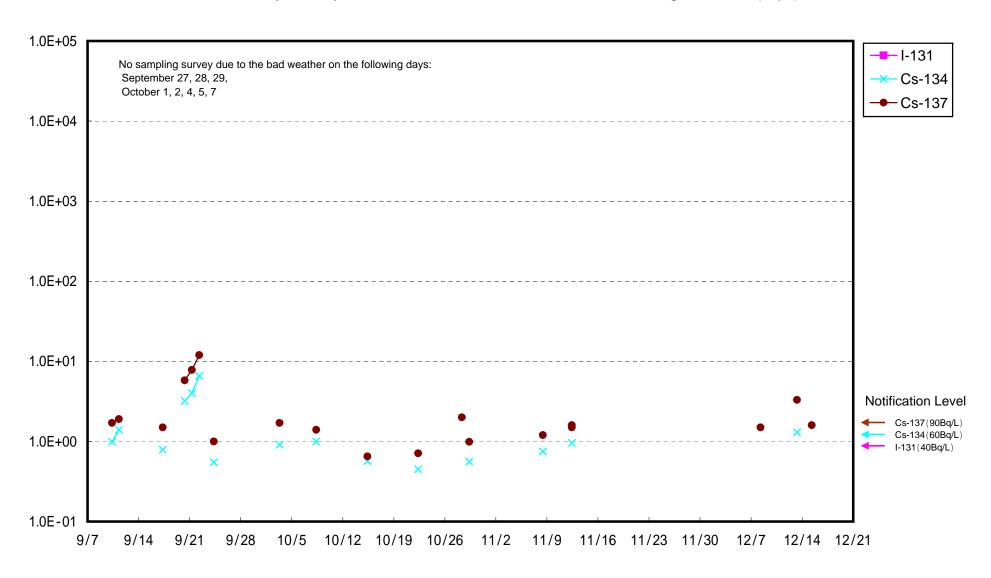
^{*} The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

^{*} In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

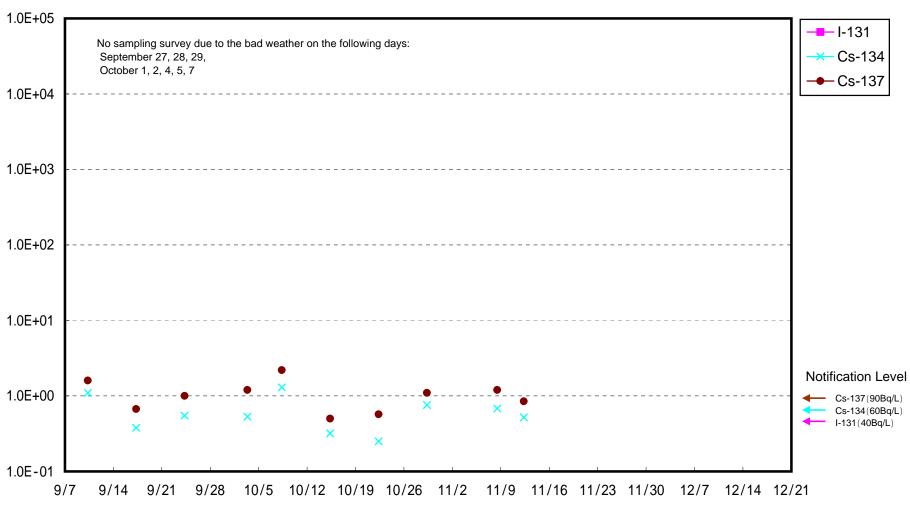
^{*} Analysis results by detail analysis (Phosphomolybdic acid ammonium adsorption sampling method) are noted.

^{*} Analyzed by: THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD.

Radioactivity Density of the Seawater at 1F Units 5-6 North Discharge Channel (Bq/L)

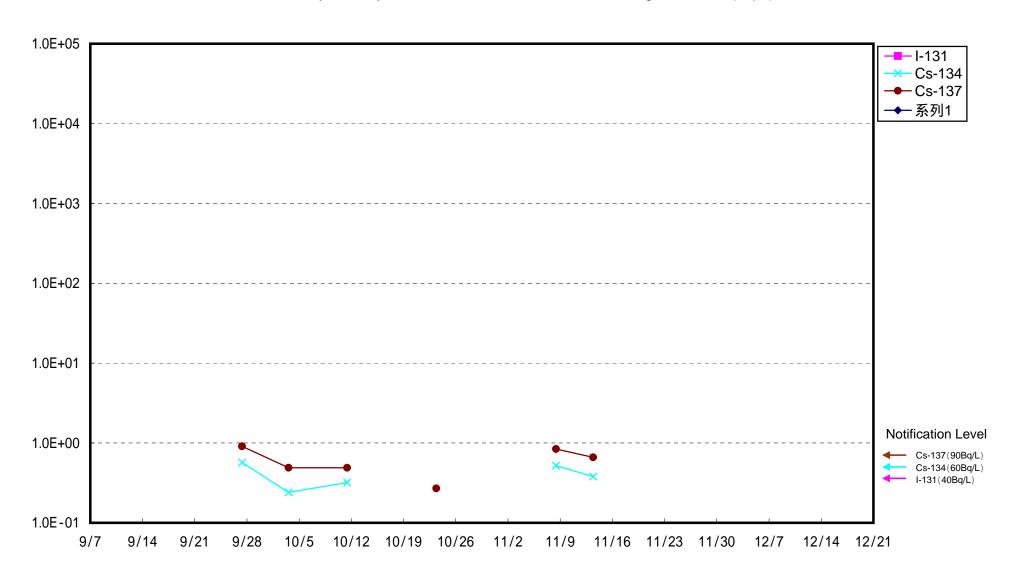


Radioactivity Density of the Seawater at 1F South Discharge Channel (Bq/L)



Sampling was conducted at around South Discharge Channel of Fukushima Daiichi NPS (appox. 330m south of Units 1-4 Discharge Channel) until November 25, 2012.

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



Radioactivity Density of the Seawater at Around the North of Asamigawa (Bq/L)

