

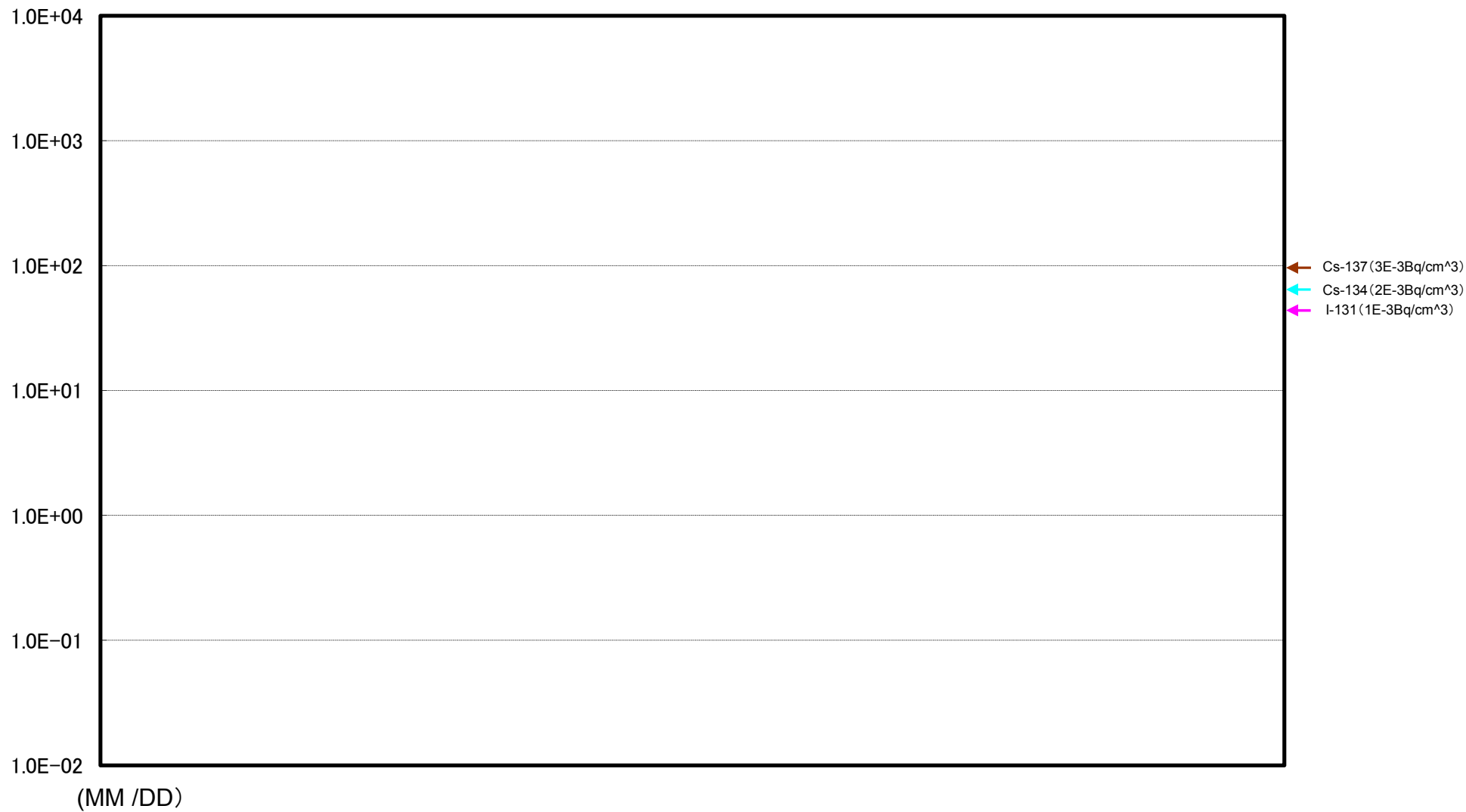
Nuclides Analysis Result of the Radioactive Materials in the Seawater < Coast, Fukushima Daiichi Nuclear Power Station >

(Data summarized on MM /DD)

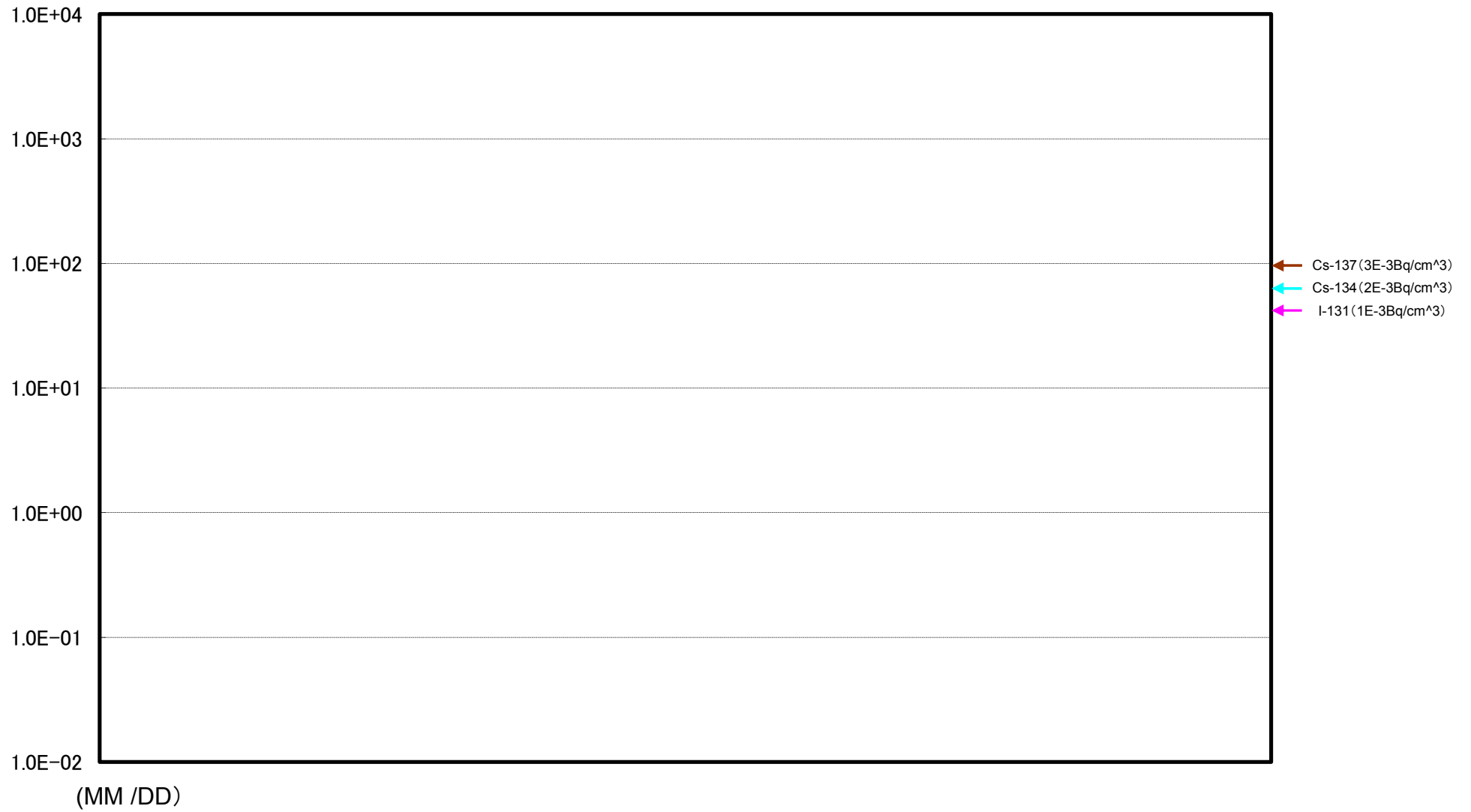
Place of Sampling	North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS (Approx. 30m North of Unit 5-6 Discharge Channel)		Around South Discharge Channel of Fukushima Daiichi NPS (Approx. 1.3km South of Unit 1-4 Discharge Channel)		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling (YY/MM/DD) Time					
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)					40
Cs-134 (Approx. 2 years)					60
Cs-137 (Approx. 30 years)					90

- * The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.
- * 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.
- * "ND" indicates that the measurement result is below the detection limit, which is provided in parentheses.

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)



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

(Data summarized on MM/DD)

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 (Approx. 1.3km South of Unit 1-4 Discharge Channel)						② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	YY/MM/DD		YY/MM/DD		YY/MM/DD		YY/MM/DD		YY/MM/DD		YY/MM/DD		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Cs-134 (Approx. 2 years)													60
Cs-137 (Approx. 30 years)													90

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

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

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

* Analyzed by: Tokyo Power Tecnology Ltd.

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

(Data summarized on MM/DD)

Place of Sampling	Around North Discharge Channel of Fukushima Daini NPS (Around Unit 3,4 Discharge Channel) (Appox. 10km from Fukushima Daiichi)				Around Iwasawa Sea shore of Fukushima Daini NPS (Appox. 7km from Unit 1, 2 Discharge channel) (Appox. 16km from Fukushima Daiichi)				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	YY/MM/DD		YY/MM/DD		YY/MM/DD		YY/MM/DD		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Cs-134 (Approx. 2 years)									60
Cs-137 (Approx. 30 years)									90

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

* In the case of 2 nuclides or more, 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 Power Tecnology Ltd.

Nuclides Analysis Result of Radioactive Materials in the Seawater
 <Coast Within 20km Range of Fukushima Daiichi NPS>

Reference

(Data summarized on MM/DD)

Place of Sampling	South siade of Ukedo Port (Approx.5.5km North of Unit 5-6 Discharge Channel)				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Time of Sampling	YY/MM/DD		YY/MM/DD		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Cs-134 (Approx. 2 years)					60
Cs-137 (Approx. 30 years)					90

- * The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.
- * In the case of 2 nuclides or more, 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 Power Technology Ltd.

Nuclides Analysis Result of Radioactive Materials in the Seawater

(Data summarized on MM/DD)

Place of Sampling (Place No.)	Upper Layer		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Date Time	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Cs-134 (Approx. 2 years)													60
Cs-137 (Approx. 30 years)													90

Place of Sampling (Place No.)	Upper Layer		Lower Layer		Upper Layer		Lower Layer		Upper Layer		Lower Layer		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Date Time	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	YY/MM/DD	
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Cs-134 (Approx. 2 years)													60
Cs-137 (Approx. 30 years)													90

(Place No.)
 (T-D5) : 3km Offshore of Fukushima Daiichi NPS
 (T-D9) : 3km Offshore of Fukushima Daini NPS
 (T-14) : 3km Offshore of Odaka Ward
 (T-11) : 3km Offshore of Iwasawa Shore
 (T-D1) : 3km Offshore of Ukedo River
 (T-5) : 15km Offshore of Fukushima Daiichi NPS
 (T-7) : 15km Offshore of Iwasawa Shore
 (T-18) : 3km Offshore of Onahama Port
 (T-M10) : 5km Offshore of Numanouchi
 (T-12) : 3km Offshore of Northern Iwaki City
 (T-17-1) : 1km Offshore of Natsui River
 (T-20) : 3km Offshore of Toyoma
 (T-13-1) : 1km Offshore of Nida River
 (T-22) : 3km Offshore of Soma
 (T-MA) : 5km Offshore of Kashima
 (T-B1) : Around 15km Offshore of Odaka Ward
 (T-B2) : Around 18km Offshore of Ukedo River
 (T-B3) : Around 10km Offshore of Fukushima Daiichi NPS
 (T-B4) : Around 10km Offshore of Fukushima Daini NPS
 (T-S1) : Around 1km Offshore of Ota River
 (T-S2) : Around 3km Offshore of Odaka Ward
 (T-S3) : Around 3km Offshore of Ukedo River
 (T-S4) : Around 3km Offshore of Fukushima Daiichi NPS
 (T-S5) : Around 2km Offshore of Kido River
 (T-S7) : Around 2km Offshore of Fukushima Daini NPS
 (T-S8) : Around 4km Offshore of kuma River

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

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

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

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

* Analyzed by: *1 THE GENERAL ENVIRONMENTAL TECHNOS Co., LTD., *2 Tokyo Power Technology Ltd.

Nuclides Analysis Result of Radioactive Materials in the Seawater< 1/4 >

(Data summarized on MM/DD)

Place of Sampling (Place No.)	North of Unit 5-6 Discharge Channel at Fukushima Daiichi NPS (Approx. 30m North of Unit 5-6 Discharge Channel) (T-1)		Around South Discharge Channel of Fukushima Daiichi NPS (Approx. 1.3km South of Unit 1-4 Discharge Channel) (T-2-1)		/		② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Date of Sampling	YY/MM/DD		YY/MM/DD		/	
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
I-131 (Approx. 8 days)					/	/	40
Cs-134 (Approx. 2 years)					/	/	60
Cs-137 (Approx. 30 years)					/	/	90
H-3 (approx. 12yrs)					/	/	60,000
Gross α					/	/	—
Gross β					/	/	—
Sr-90 (Approx. 29 years)					/	/	30

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

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* Nuclide analysis results of I-131, Cs-134, Cs-137, and gross β were announced on YY/MM/DD.

Nuclide analysis results of H-3 was announced on YY/MM/DD.

* ND indicates that the measurement result is below the detection limit. Detection limit level is showed in parenthesis.

* Nuclides analysis of Sr-90 was done by Japan Chemical Analysis Center.

(Evaluation)

Nuclides Analysis Result of Radioactive Materials in the Seawater<2/4>

(Data summarized on MM/DD)

Place of Sampling (Place No.)	Around North Discharge Channel of Fukushima Daini NPS (T-3) (Around Unit 3, 4 Discharge Channel) (Approx. 10km of Fukushima Daiichi NPS)	South Side of the Ukedo Port (T- 6) (Approx. 5.5km North of Unit 5, 6 Discharge Channel)					
Date of Sampling	YY/MM/DD		YY/MM/DD				② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Cs-134 (Approx. 2 years)							
Cs-137 (Approx. 30 years)							90
H-3 (approx. 12yrs)							60,000
Gross β							—

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

* Radioactivity density "—" means "not applicable".

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* Nuclide analysis results of Cs-134 and Cs-137 were announced on YY/MM/DD.

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. ○Bq/L, Cs-137: Approx. ○Bq/L, H-3: Approx. ○Bq/L, Gross β: Approx. ○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.

(Evaluation)

Nuclides Analysis Result of Radioactive Materials in the Seawater<3/4>

(Data summarized on MM/DD)

Place of Sampling (Place No.)	15km Offshore of Fukushima Daiichi NPS(T-5) Upper Layer	3km Offshore of Ukedo River (T-D1) Upper Layer	3km Offshore of Fukushima Daiichi NPS (T-D5) Upper Layer	② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)			
Date of Sampling	YY/MM/DD		YY/MM/DD		YY/MM/DD		
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Cs-134 (Approx. 2 years)							60
Cs-137 (Approx. 30 years)							90
H-3 (approx. 12yrs)							60,000
Gross α							—
Gross β							—
Sr-90 (Approx. 29 years)							30

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

* Radioactivity density "—" means "not applicable".

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* Nuclide analysis results of Cs-134 and Cs-137 were announced on YY/MM/DD.

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. ○Bq/L, Cs-137: Approx. ○Bq/L, H-3: Approx. ○Bq/L, Gross α: Approx. ○Bq/L, Gross β: Approx. ○Bq/L, Sr-90: Approx. ○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.

* Nuclides analysis of Sr-90 was done by Japan Chemical Analysis Center.

(Evaluation)

Nuclides Analysis Result of Radioactive Materials in the Seawater<4/4>

(Data summarized on MM/DD)

Place of Sampling (Place No.)	3km Offshore of Fukushima Daini NPS (T-D9) Upper Layer						② Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
Date of Sampling	YY/MM/DD						
Detected Nuclides (Half-life)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	①Density of Sample (Bq/L)	Scaling Factor (①/②)	
Cs-134 (Approx. 2 years)							60
Cs-137 (Approx. 30 years)							90
H-3 (approx. 12yrs)							60,000
Gross α							—
Gross β							—
Sr-90 (Approx. 29 years)							30

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

* Radioactivity density "—" means "not applicable".

* In the case of 2 nuclides or more, the sum of scaling factors to density limits is compared to 1.

* Nuclide analysis results of Cs-134 and Cs-137 were announced on YY/MM/DD.

* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. ○Bq/L, Cs-137: Approx. ○Bq/L, H-3: Approx. ○Bq/L, Gross α: Approx. ○Bq/L, Gross β: Approx. ○Bq/L, Sr-90: Approx. ○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.

* Nuclides analysis of Sr-90 was done by Japan Chemical Analysis Center.

(Evaluation)