## Information, August, 2025

To All Missions (Embassies, Consular posts and International Organizations in Japan)

## Report on the discharge record and the seawater monitoring results at Fukushima Daiichi Nuclear Power Station during July

The Ministry of Foreign Affairs wishes to provide all international Missions in Japan with a report on the discharge record and seawater monitoring results with regard to groundwater pumped from the sub-drain and groundwater drain systems, as well as bypassing groundwater pumped during the month of July at Fukushima Daiichi Nuclear Power Station (NPS).

## 1. Sub-drain and Groundwater Drain Systems

In July purified groundwater pumped from the sub-drain and groundwater drain systems was discharged on the dates shown in Appendix 1. Prior to every discharge, an analysis on the quality of the purified groundwater to be discharged was conducted by Tokyo Electric Power Company (TEPCO) and the results were announced.

All the test results during the month of July have confirmed that the radiation levels of sampled water were substantially below the operational targets set by TEPCO (these operational targets are well below the density limit specified by the Reactor Regulation). The results of these analyses were also confirmed by third-party organization (Tohoku Ryokka Kankyohozen Co.).

In addition, TEPCO and Japan Atomic Energy Agency (JAEA), at the request of the Government of Japan, regularly conduct more detailed analyses on the purified groundwater. The results of JAEA's latest analyses confirmed that TEPCO's analyses were accurate and verified that the radiation levels of sampled groundwater was substantially below the operational target (see Appendix 2).

Moreover, TEPCO publishes the results of analyses conducted on seawater sampled during the discharge operation at the nearest seawater sampling post from the discharge point (see Appendix 3). The results show that the radiation levels of seawater remain lower than the density limit specified by the Reactor Regulation and significant change in the radioactivity has not been observed.

## 2. Groundwater Bypassing

In July, the pumped bypassing groundwater was discharged on the dates shown in Appendix 4. Prior to every discharge, an analysis on the quality of the groundwater to be discharged was conducted by TEPCO and the results were announced.

All the test results during the month of July have confirmed that the radiation levels of sampled water were substantially below the operational targets set by TEPCO (these operational targets are well below the density limit specified by the Reactor Regulation). The results of these analyses were also confirmed by Japan Chemical Analysis Center.

In addition, TEPCO and JAEA, at the request of the Government of Japan, regularly conduct more detailed analyses on the groundwater. The results of JAEA's latest analyses confirmed that TEPCO's analyses were accurate and verified that the radiation levels of the sampled groundwater were substantially below the operational target (see Appendix 5).

Moreover, TEPCO publishes analysis results on seawater sampled during the discharge operation at the nearest seawater sampling post from the discharge point (see Appendix 6). The result shows that the radiation levels in seawater remain lower than the density limit specified by the Reactor Regulation and significant change in the radioactivity has not been observed. The analysis had been conducted once a month until March 2017. Since April 2017, it is conducted four times a year because there has been no significant fluctuation in the concentration of radioactive materials in the sea water, and no influence on the surrounding environment has been confirmed.

The sampling process for analyses conducted this month is the same as the one conducted in the information disseminated last month. Results of the analyses are shown in the attached appendices:

(For further information, please contact TEPCO at (Tel: 03-6373-1111) or refer to the TEPCO's website:

http://www.tepco.co.jp/en/nu/fukushima-np/handouts/index-e.html)

Contact: International Nuclear Energy Cooperation Division,
Ministry of Foreign Affairs, Tel 03-5501-8227

Results of analyses on the quality of the purified groundwater pumped from the subdrain and groundwater drain systems at Fukushima Daiichi NPS (made available by TEPCO prior to discharge)

	T	T	(Unit: Bq/
		Analytical body	
Date of sampling	Detected		Third-party
*Date of discharge	nuclides	s TEPCO	organization
	0 101	) ID (0 ==\)	
July 27 <sup>th</sup> , 2025	Cs-134	ND (0.77)	ND (0.62)
•	Cs-137	ND (0.63)	ND (0.62)
*Discharged on August 1 <sup>st</sup> ,2025	Gross β	ND (1.9)	ND(0.33)
	H-3	580	620
Luly Octh 2005	Cs-134	ND (0.91)	ND (0.59)
July 26 <sup>th</sup> , 2025	Cs-137	ND (0.71)	ND (0.66)
*Discharged on July 31 <sup>st</sup> ,2025	Gross β	ND (1.9)	ND (0.31)
oaly 01 ,2020	H-3	540	590
	Cs-134	ND (0.84)	ND (0.30)
July 24 <sup>th</sup> , 2025	Cs-137	ND (0.86)	ND (0.54)
*Discharged on July 29 <sup>th</sup> ,2025	Gross β	ND (0.56)	ND (0.33)
July 29**,2023	H-3	710	750
	Cs-134	ND (0.92)	ND (0.54)
July 23 <sup>rd</sup> , 2025	Cs-137	ND (0.99)	ND (0.60)
*Discharged on	Gross β	ND (1.7)	0.33
July 28 <sup>th</sup> ,2025	H-3	700	730
	Cs-134	ND (0.81)	ND (0.:55)
July 21st, 2025	Cs-137	ND (0.73)	ND (0.54)
*Discharged on	Gross β	ND (2.0)	0.27
July 26 <sup>th</sup> ,2025	H-3	630	660
	Cs-134	ND (0.58)	ND (0.65)
July 20th, 2025	Cs-137	ND (0.74)	ND (0.63)
*Discharged on	Gross β	ND (2.2)	ND (0.33)
July 25 <sup>th</sup> ,2025	H-3	630	660
	Cs-134	ND (0.68)	ND (0.59)
July 18 <sup>th</sup> , 2025	Cs-137	ND (0.74)	ND (0.54)
*Discharged on	Gross β	ND (1.9)	ND (0.42)
July 23 <sup>rd</sup> ,2025	H-3	720	740
luly 47th	Cs-134	ND (0.82)	ND (0.52)
July 17 <sup>th</sup> , 2025	Cs-137	ND (0.63)	ND (0.45)
*Discharged on	Gross β	, ,	, ,
Discharged on	Oloss h	ND (0.72)	ND(0.43)

July 22nd,2025	H-3	750	770
July 15 <sup>th</sup> ,2025	Cs-134	ND (0.82)	ND (0.67)
•	Cs-137	ND (0.79)	ND (0.54)
*Discharged on July 20 <sup>th</sup> ,2025	Gross β	ND (1.9)	ND (0.42)
outy 20 ,2020	H-3	730	760
	Cs-134	ND (0.67)	ND (0.72)
July 14 <sup>th</sup> , 2025	Cs-137	ND (0.63)	ND (0.63)
*Discharged on July 19 <sup>th</sup> ,2025	Gross β	ND (1.9)	ND (0.40)
July 19 ,2023	H-3	740	780
	Cs-134	ND (0.58)	ND (0.49)
July 12 <sup>th</sup> , 2025	Cs-137	ND (0.86)	ND (0.65)
*Discharged on July 17 <sup>th</sup> ,2025	Gross β	ND (2.0)	ND (0.43)
July 17**,2025	H-3	710	780
	Cs-134	ND (0.84)	ND (0.62)
July 11 <sup>th</sup> , 2025	Cs-137	ND (0.59)	ND (0.63)
*Discharged on	Gross β	ND (1.9)	0.49
July 16 <sup>th</sup> ,2025	H-3	750	790
	Cs-134	ND (0.72)	ND (0.59)
July 10 <sup>th</sup> , 2025	Cs-137	ND (0.64)	ND (0.77)
*Discharged on	Gross β	ND (0.66)	ND (0.39)
July 15 <sup>th</sup> ,2025	H-3	740	760
July 8 <sup>th</sup> , 2025	Cs-134	ND (0.98)	ND (0.64)
	Cs-137	ND (0.96)	ND (0.60)
*Discharged on	Gross β	ND (1.9)	ND (0.43)
July 13 <sup>th</sup> ,2025	H-3	760	800
	Cs-134	ND (0.75)	ND (0.70)
July 6 <sup>th</sup> , 2025	Cs-137	ND (0.96)	ND (0.67)
*Discharged on	Gross β	ND (2.1)	ND (0.34)
July 11 <sup>th</sup> ,2025	H-3	700	750
	Cs-134	ND (0.87)	ND (0.64)
July 5 <sup>th</sup> , 2025	Cs-137	ND (0.69)	ND (0.57)
*Discharged on	Gross β	ND (1.9)	ND (0.33)
July 10 <sup>th</sup> ,2025	H-3	660	720
	Cs-134	ND (0.75)	ND (0.59)
July 3 <sup>rd</sup> , 2025	Cs-137	ND (0.63)	ND (0.51)
*Discharged on	Gross β	ND (1.9)	ND (0.31)
July 8 <sup>th</sup> ,2025	H-3	620	640
	Cs-134	ND (0.82)	ND (0.49)
July 2 <sup>nd</sup> , 2025	Cs-137	ND (0.82)	ND (0.62)
*Discharged on	Gross β	ND (0.67)	ND (0.32)
July 7 <sup>th</sup> ,2025	H-3	590	610

	Cs-134	ND (0.97)	ND (0.43)
June30 <sup>th</sup> , 2025	Cs-137	ND (0.85)	ND (0.72)
*Discharged on July 5 <sup>th</sup> ,2025	Gross β	ND (2.1)	ND (0.35)
July 5 ,2023	H-3	580	610
	Cs-134	ND (0.82)	ND (0.66)
June 29 <sup>th</sup> , 2025	Cs-137	ND (0.92)	ND (0.51)
*Discharged on July 4 <sup>th</sup> ,2025	Gross β	ND (1.8)	ND (0.34)
ouly + ,2025	H-3	620	660
41	Cs-134	ND (0.75)	ND (0.69)
June 28 <sup>th</sup> , 2025	Cs-137	ND (0.71)	ND (0.66)
*Discharged on July 3 <sup>rd</sup> ,2025	Gross β	ND (2.1)	0.40
July 5 ,2020	H-3	620	660

- \* \* ND: represents a value below the detection limit; values in ( ) represent the detection limit.
- In order to ensure the results, third-party organizations have also conducted an analysis and verified the radiation level of the sampled water.
   Third-party organization: Tohoku Ryokka Kankyohozen Co., Ltd

Result of detailed analyses conducted by TEPCO, JAEA, and Japan Chemical Analysis Center (In order to confirm the validity of analysis, the Government of Japan also requests JAEA; and TEPCO requests Japan Chemical Analysis Center to conduct independent analyses)

(Unit: Bq/L)

	Detected	Analytical body			
Date of sampling nuclides	JAEA	TEPCO	Japan Chemical Analysis Center		
	Cs-134	ND (0.0027)	ND (0.0075)	ND (0.0061)	
	Cs-137	ND (0.0019)	ND (0.0054)	ND (0.0040)	
June 1 <sup>st</sup> ,2025	Gross α	ND (0.75)	ND (2.3)	ND (2.0)	
Julie 1 <sup></sup> ,2025	Gross β	ND (0.38)	ND (0.63)	ND (0.54)	
	H-3	690 ±1.5	660	680	
	Sr-90	$0.0020\pm0.00043$	ND (0.0012)	ND (0.0056)	

<sup>\*</sup> ND: represents a value below the detection limit; values in ( ) represent the detection limit.

(Reference) (Unit: Bq/L)

Radionuclides	Operational Targets	Density Limit specified by the Reactor Regulation	World Health Organization (WHO) Guidelines for Drinking Water Quality
Cs-134	1	60	10
Cs-137	1	90	10
Gross α	_	1	1
Gross β	3 (1) *	1	1
H-3	1,500	60,000	10,000
Sr-90	_	30	10

 $<sup>\</sup>divideontimes$  The operational target of Gross  $\beta$  is 1 Bq/L in the survey which is conducted once every ten days.

The reference table shows the values of operational targets before discharge. Since the values after discharge contain natural radioactive materials in seawater, there will be differences between the values and the operational targets values.

Results of analysis on the seawater sampled near the discharge point (North side of Units 5 and 6 discharge channel)

Date of sampling	Detected nuclides	Sampling point (South discharge channel)
	Cs-134	ND (0.81)
June 19 <sup>th</sup> , 2025  *Sampled before discharge of purified groundwater.	Cs-137	ND (0.85)
	Gross β	7.7
	H-3	0.33

Results of analyses on the water quality of the groundwater pumped up for bypassing at Fukushima Daiichi NPS (made available by TEPCO prior to discharge)

			(Unit: Bq/L)	
Date of sampling		Analytical body		
*Date of discharge	Detected nuclides	TEPCO	Third-party organization	
	Cs-134	ND (0.84)	ND (0.64)	
July 25 <sup>th</sup> , 2025	Cs-137	ND (0.74)	ND (0.63)	
*Discharged on July 31 <sup>st</sup> ,2025	Gross β	ND (0.64)	ND (0.33)	
	H-3	46	50	
	Cs-134	ND (0.75)	ND (0.67)	
July 18 <sup>th</sup> , 2025	Cs-137	ND (0.65)	ND (0.54)	
*Discharged on July 24 <sup>th</sup> ,2025	Gross β	ND (0.64)	ND (0.40)	
	H-3	50	50	
	Cs-134	ND (0.53)	ND (0.56)	
July 11 <sup>th</sup> , 2025	Cs-137	ND (0.65)	ND (0.66)	
*Discharged on July 17 <sup>th</sup> ,2025	Gross β	ND (0.60)	ND (0.40)	
	H-3	49	51	
	Cs-134	ND (0.82)	ND (0.55)	
July 4 <sup>th</sup> , 2025	Cs-137	ND (0.67)	ND (0.67)	
*Discharged on July 10 <sup>th</sup> ,2025	Gross β	ND (0.66)	ND (0.32)	
	H-3	47	49	
07th 0007	Cs-134	ND (0.67)	ND (0.59)	
June 27 <sup>th</sup> , 2025	Cs-137	ND (0.85)	ND (0.66)	
*Discharged on July 3rd,2025	Gross β	ND (0.60)	ND (0.33)	
	H-3	56	52	

<sup>\* \*</sup> ND: represents a value below the detection limit; values in ( ) represent the detection limit

<sup>\*</sup> In order to ensure the results, third-party organizations have also conducted an analysis and verified the radiation level of the sampled water.

<sup>\*</sup> Third-party organization: Tohoku Ryokka Kankyohozen Co., Ltd

Result of detailed analyses conducted by TEPCO, JAEA, and Japan Chemical Analysis Center (In order to confirm the validity of analysis, the Government of Japan also requests JAEA; and TEPCO requests Japan Chemical Analysis Center to conduct independent analyses)

(Unit: Bq/L)

		Analytical body			
Date of sampling [	Detected nuclides	JAEA	TEPCO	Japan Chemical Analysis Center	
June 5 <sup>th</sup> , 2025	Cs-134	ND (0.0031)	ND (0.0051)	ND (0.0066)	
	Cs-137	ND (0.0020)	ND (0.0039)	ND (0.0044)	
	Gross α	ND (0.68)	ND (2.3)	ND (2.0)	
	Gross β	ND (0.38)	ND (0.67)	ND (0.57)	
	H-3	49 ±0.44	49	49	
	Sr-90	0.0020 ±0.00040	ND (0.0013)	ND (0.0055)	

<sup>\*</sup> ND: represents a value below the detection limit; values in ( ) represent the detection limit.

(Reference) (Unit: Bq/L)

Radionuclides	Operational Targets	Density Limit specified by the Reactor Regulation	World Health Organization (WHO) Guidelines for Drinking Water Quality
Cs-134	1	60	10
Cs-137	1	90	10
Gross α	_	_	_
Gross β	5 (1) *	_	
H-3	1,500	60,000	10,000
Sr-90	_	30	10

 $<sup>\</sup>divideontimes$  The operational target of Gross  $\beta$  is 1 Bq/L in the survey which is conducted once every ten days.

<sup>\*</sup> The reference table shows the values of operational targets before discharge.

Since the values after discharge contain natural radioactive materials in seawater, there will be differences between the values and the operational targets values.

Results of analyses on the seawater sampled near the discharge point (Around South Discharge Channel)

Date of sampling %conducted four times a year	Detected nuclides	Sampling point (South discharge channel)
June 19 <sup>th</sup> , 2025	Cs-134	ND (0.92)
	Cs-137	ND (0.82)
	Gross β	11
	H-3	ND (0.52)