

Information, September, 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 August

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 August at Fukushima Daiichi Nuclear Power Station (NPS).

1. Sub-drain and Groundwater Drain Systems

In August 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 August 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 August, 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 August 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 sub-drain and groundwater drain systems at Fukushima Daiichi NPS (made available by TEPCO prior to discharge)

(Unit: Bq/L)

Date of sampling *Date of discharge	Detected nuclides	Analytical body	
		TEPCO	Third-party organization
August 27 th , 2025 *Discharged on September 1 st , 2025	Cs-134	ND (0.76)	ND (0.52)
	Cs-137	ND (0.81)	ND (0.60)
	Gross β	ND (1.7)	ND(0.42)
	H-3	690	730
August 26 th , 2025 *Discharged on August 31 st , 2025	Cs-134	ND (0.58)	ND (0.64)
	Cs-137	ND (0.76)	ND (0.54)
	Gross β	ND (1.7)	ND (0.41)
	H-3	680	710
August 24 th , 2025 *Discharged on August 29 th , 2025	Cs-134	ND (0.75)	ND (0.65)
	Cs-137	ND (0.68)	ND (0.63)
	Gross β	ND (1.8)	ND (0.26)
	H-3	560	590
August 23 rd , 2025 *Discharged on August 28 th , 2025	Cs-134	ND (0.75)	ND (0.52)
	Cs-137	ND (0.61)	ND (0.66)
	Gross β	ND (1.9)	ND(0.42)
	H-3	590	630
August 21 st , 2025 *Discharged on August 26 th , 2025	Cs-134	ND (0.84)	ND (0.61)
	Cs-137	ND (0.85)	ND (0.52)
	Gross β	ND (0.63)	ND(0.37)
	H-3	620	650
August 20 th , 2025 *Discharged on August 25 th , 2025	Cs-134	ND (0.68)	ND (0.59)
	Cs-137	ND (0.90)	ND (0.60)
	Gross β	ND (1.8)	ND (0.44)
	H-3	600	620
August 18 th , 2025 *Discharged on August 23 rd , 2025	Cs-134	ND (0.67)	ND (0.64)
	Cs-137	ND (0.85)	ND (0.63)
	Gross β	ND (1.8)	ND (0.44)
	H-3	600	620
August 17 th , 2025 *Discharged on	Cs-134	ND (0.84)	ND (0.66)
	Cs-137	ND (0.88)	ND (0.57)
	Gross β	ND (1.9)	ND(0.38)

August 22 nd ,2025	H-3	570	630
August 15 th ,2025 *Discharged on August 20 th ,2025	Cs-134	ND (0.84)	ND (0.64)
	Cs-137	ND (0.74)	ND (0.77)
	Gross β	ND (1.8)	ND (0.39)
	H-3	610	680
August 14 th , 2025 *Discharged on August 19 th ,2025	Cs-134	ND (0.77)	ND (0.59)
	Cs-137	ND (0.78)	ND (0.63)
	Gross β	ND (1.8)	ND (0.42)
	H-3	670	740
August 12 th , 2025 *Discharged on August 17 th ,2025	Cs-134	ND (0.84)	ND (0.61)
	Cs-137	ND (0.63)	ND (0.55)
	Gross β	ND (0.62)	ND (0.41)
	H-3	610	680
August 11 th , 2025 *Discharged on August 16 th ,2025	Cs-134	ND (0.84)	ND (0.59)
	Cs-137	ND (0.82)	ND (0.59)
	Gross β	ND (1.9)	ND(0.45)
	H-3	630	700
August 10 th , 2025 *Discharged on August 15 th ,2025	Cs-134	ND (0.75)	ND (0.84)
	Cs-137	ND (0.65)	ND (0.80)
	Gross β	ND (1.9)	0.51
	H-3	680	740
August 8 th , 2025 *Discharged on August 13 th ,2025	Cs-134	ND (0.77)	ND (0.62)
	Cs-137	ND (0.93)	ND (0.69)
	Gross β	ND (1.9)	ND (0.45)
	H-3	700	770
August 7 th , 2025 *Discharged on August 12 th ,2025	Cs-134	ND (0.77)	ND (0.63)
	Cs-137	ND (0.90)	ND (0.57)
	Gross β	ND (1.7)	ND (0.41)
	H-3	700	740
August 5 th , 2025 *Discharged on August 10 th ,2025	Cs-134	ND (0.67)	ND (0.59)
	Cs-137	ND (0.90)	ND (0.60)
	Gross β	ND (1.8)	ND (0.42)
	H-3	770	780
August 3 rd , 2025 *Discharged on August 8 th ,2025	Cs-134	ND (0.84)	ND (0.49)
	Cs-137	ND (0.74)	ND (0.69)
	Gross β	ND (0.65)	ND (0.45)
	H-3	710	760
August 2 nd , 2025 *Discharged on August 7 th ,2025	Cs-134	ND (0.88)	ND (0.47)
	Cs-137	ND (0.63)	ND (0.67)
	Gross β	ND (0.64)	ND (0.41)
	H-3	710	750

July 30 th , 2025 *Discharged on August 4 th ,2025	Cs-134	ND (0.75)	ND (0.44)
	Cs-137	ND (0.63)	ND (0.62)
	Gross β	ND (2.0)	ND (0.33)
	H-3	750	770
July 29 th , 2025 *Discharged on August 3 rd ,2025	Cs-134	ND (0.67)	ND (0.64)
	Cs-137	ND (0.85)	ND (0.54)
	Gross β	ND (1.9)	0.47
	H-3	730	780

- * * 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)

Date of sampling	Detected nuclides	Analytical body		
		JAEA	TEPCO	Japan Chemical Analysis Center
July 2 nd , 2025	Cs-134	ND (0.0025)	ND (0.0048)	ND (0.0067)
	Cs-137	0.0018±0.00050	ND (0.0041)	ND (0.0048)
	Gross α	ND (0.65)	ND (2.7)	ND (1.9)
	Gross β	ND (0.48)	ND (0.67)	ND (0.50)
	H-3	590 ±1.4	590	600
	Sr-90	0.0013±0.00041	ND (0.0013)	ND (0.0060)

* 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	3 (1) ※	—	—
H-3	1,500	60,000	10,000
Sr-90	—	30	10

※ The operational target of Gross β 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)

(Unit: Bq/L)

Date of sampling	Detected nuclides	Sampling point (South discharge channel)
June 19 th , 2025 *Sampled before discharge of purified groundwater.	Cs-134	ND (0.81)
	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 *Date of discharge	Detected nuclides	Analytical body	
		TEPCO	Third-party organization
August 22 nd , 2025 *Discharged on August 28 th , 2025	Cs-134	ND (0.82)	ND (0.69)
	Cs-137	ND (0.74)	ND (0.63)
	Gross β	ND (0.63)	ND (0.43)
	H-3	46	49
August 15 th , 2025 *Discharged on August 21 st , 2025	Cs-134	ND (0.89)	ND (0.64)
	Cs-137	ND (0.72)	ND (0.55)
	Gross β	ND (0.53)	ND (0.43)
	H-3	45	46
August 8 th , 2025 *Discharged on August 14 th , 2025	Cs-134	ND (0.97)	ND (0.78)
	Cs-137	ND (0.77)	ND (0.59)
	Gross β	ND (0.68)	ND (0.38)
	H-3	49	46
August 1 st , 2025 *Discharged on August 7 th , 2025	Cs-134	ND (0.67)	ND (0.57)
	Cs-137	ND (0.56)	ND (0.57)
	Gross β	ND (0.73)	ND (0.29)
	H-3	43	49

- * * 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)

Date of sampling	Detected nuclides	Analytical body		
		JAEA	TEPCO	Japan Chemical Analysis Center
July 4 th , 2025	Cs-134	ND (0.0023)	ND (0.0040)	ND (0.0065)
	Cs-137	0.0017 ±0.00050	ND (0.0037)	ND (0.0045)
	Gross α	ND (0.71)	ND (2.7)	ND (1.9)
	Gross β	ND (0.48)	ND (0.66)	ND (0.54)
	H-3	49 ±0.44	50	49
	Sr-90	ND(0.0012)	ND (0.0012)	ND (0.0054)

* 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

※ The operational target of Gross β 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 analyses on the seawater sampled near the discharge point (Around South Discharge Channel)

(Unit: Bq/L)

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