Information (10:00), September 12, 2019

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 subdrain and groundwater drain systems, as well as, bypassing groundwater pumped during the month of August at Fukushima Daiichi Nuclear Power Station (NPS).

1. Subdrain and Groundwater Drain Systems

In August, purified groundwater pumped from the subdrain 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 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)

	1	T	(Unit: Bq/L)
Date of sampling	Detected	Analytical body	
*Date of discharge	nuclides	TEPCO	Third-party organization
	Cs-134	ND (0.55)	ND (0.57)
August 26 th , 2019	Cs-137	ND (0.68)	ND (0.64)
*Discharged on August 31 st	Gross β	ND (1.9)	ND (0.38)
August 01	H-3	980	1,100
	Cs-134	ND (0.65)	ND (0.61)
August 25 th , 2019	Cs-137	ND (0.63)	ND (0.69)
*Discharged on August 30 th	Gross β	ND (0.57)	ND (0.34)
August 50"	H-3	960 ND (0.80) ND (0.58) ND (2.3) 1,000	1,100
	Cs-134	ND (0.80)	ND (0.61)
August 24 th , 2019	Cs-137	ND (0.58)	ND (0.49)
*Discharged on August 29 th	Gross β	ND (2.3)	ND (0.34)
August 29	H-3	TEPCO ND (0.55) ND (0.68) ND (1.9) 980 ND (0.65) ND (0.63) ND (0.57) 960 ND (0.80) ND (0.58) ND (2.3)	1,100
	Cs-134	ND (0.66)	ND (0.72)
August 23 rd , 2019	Cs-137	ND (0.75)	ND (0.88)
*Discharged on August 28 th	Gross β	ND (2.2)	ND (0.37)
August 20	H-3	1,000	1,100
	Cs-134	ND (0.62)	ND (0.68)
August 22 nd , 2019	Cs-137	ND (0.63)	ND (0.69)
*Discharged on August 27 th	Gross β	ND (1.9)	ND (0.36)
August 21	H-3	1,000	1,100
	Cs-134	ND (0.55)	ND (0.53)
August 21st, 2019	Cs-137	ND (0.75)	ND (0.64)
*Discharged on	Gross β	ND (1.9)	ND (0.34)
August 26 th	H-3	980	1,100
	Cs-134	ND (0.43)	ND (0.64)
August 20 th , 2019	Cs-137	ND (0.68)	ND (0.59)
*Discharged on	Gross β	ND (1.9)	ND (0.36)
August 25 th	H-3	ND (0.63) ND (0.57) 960 ND (0.80) ND (0.58) ND (0.58) ND (0.58) ND (0.66) ND (0.66) ND (0.75) ND (2.2) 1,000 ND (0.62) ND (0.63) ND (1.9) 1,000 ND (0.55) ND (0.75) ND (1.9) 980 ND (0.43) ND (0.68) ND (1.9)	1,100

August 10th 2010	Cs-134	ND (0.64)	ND (0.61)
August 19 th , 2019	Cs-137	ND (0.58)	ND (0.59)
*Discharged on August 24 th	Gross β	ND (2.3)	ND (0.34)
, taguet 2 :	H-3	970	1,000
	Cs-134	ND (0.60)	ND (0.59)
August 18 th , 2019	Cs-137	ND (0.68)	ND (0.59)
*Discharged on August 23 rd	Gross β	ND (2.0)	ND (0.32)
August 25	H-3	970	1,100
	Cs-134	ND (0.57)	ND (0.61)
August 17 th , 2019	Cs-137	ND (0.78)	ND (0.69)
*Discharged on	Gross β	ND (2.1)	ND (0.34)
August 22 nd	H-3	950	1,000
	Cs-134	ND (0.64)	ND (0.60)
August 16 th , 2019	Cs-137	ND (0.82)	ND (0.67)
*Discharged on	Gross β	ND (0.74)	ND (0.33)
August 21 st	H-3	940	1,000
	Cs-134	ND (0.52)	ND (0.59)
August 15 th , 2019	Cs-137	ND (0.78)	ND (0.67)
*Discharged on	Gross β	ND (2.2)	ND (0.33)
August 20 th	H-3	970	1,000
	Cs-134	ND (0.54)	ND (0.61)
August 14 th , 2019	Cs-137	ND (0.71)	ND (0.49)
*Discharged on	Gross β	ND (2.2)	ND (0.36)
August 19 th	H-3	940	1,000
	Cs-134	ND (0.65)	ND (0.67)
August 13 th , 2019	Cs-137	ND (0.78)	ND (0.53)
*Discharged on	Gross β	ND (2.0)	ND (0.31)
August 18 th	H-3	880	970
	Cs-134	ND (0.54)	ND (0.61)
August 12 th , 2019	Cs-137	ND (0.71)	ND (0.53)
*Discharged on	Gross β	ND (2.1)	ND (0.32)
August 17 th	H-3	930	1,000
	Cs-134	ND (0.62)	ND (0.64)
August 11 th , 2019	Cs-137	ND (0.63)	ND (0.62)
*Discharged on	Gross β	ND (2.3)	ND (0.31)
August 16 th	H-3	940	1,000
	Cs-134	ND (0.54)	ND (0.61)
August 10 th , 2019	Cs-137	ND (0.58)	ND (0.67)
*Discharged on	Gross β	ND (2.0)	ND (0.33)
August 15 th	H-3	830	900
August 9th, 2019	Cs-134	ND (0.64)	ND (0.51)
•	Cs-137	ND (0.68)	ND (0.44)
*Discharged on August 14 th	Gross β	ND (0.74)	ND (0.30)

	H-3	970	1,100
	Cs-134	ND (0.40)	ND (0.65)
August 8 th , 2019	Cs-137	ND (0.68)	ND (0.49)
*Discharged on	Gross β	ND (2.0)	ND (0.28)
August 13 th	H-3	950	1,000
	Cs-134	ND (0.51)	ND (0.53)
August 7 th , 2019	Cs-137	ND (0.71)	ND (0.62)
*Discharged on	Gross β	ND (1.9)	ND (0.36)
August 12 th	H-3	890	970
	Cs-134	ND (0.75)	ND (0.71)
August 6 th , 2019	Cs-137	ND (0.53)	ND (0.70)
*Discharged on	Gross β	ND (2.0)	ND (0.36)
August 11 th	H-3	930	1,000
	Cs-134	ND (0.69)	ND (0.59)
August 5 th , 2019	Cs-137	ND (0.53)	ND (0.49)
*Discharged on	Gross β	ND (2.2)	ND (0.36)
August 10 th	H-3	940	1,000
	Cs-134	ND (0.71)	ND (0.57)
August 4th, 2019	Cs-137	ND (0.53)	ND (0.49)
*Discharged on	Gross β	ND (2.6)	ND (0.35)
August 9th	H-3	950 ND (0.51) ND (0.71) ND (1.9) 890 ND (0.75) ND (0.53) ND (2.0) 930 ND (0.69) ND (0.53) ND (2.2) 940 ND (0.71) ND (0.53)	1,100
	Cs-134	ND (0.62)	ND (0.74)
August 3 rd , 2019	Cs-137		ND (0.74)
*Discharged on	Gross β		ND (0.39)
August 8 th	H-3	1,000	1,100
	Cs-134	ND (0.62)	ND (0.67)
August 2 nd , 2019	Cs-137		ND (0.67)
*Discharged on	Gross β	ND (2.4)	ND (0.31)
August 7 th	H-3	930	1,000
	Cs-134	ND (0.71)	ND (0.67)
August 1 st , 2019	Cs-137	ND (0.68)	ND (0.56)
*Discharged on	Gross β	ND (0.76)	0.43
August 6th	H-3	920	990
	Cs-134	ND (0.52)	ND (0.64)
July 31 st , 2019	Cs-137	, ,	ND (0.56)
*Discharged on	Gross β	<u> </u>	ND (0.36)
August 5 th	H-3	` '	1,000
	Cs-134	ND (0.52)	ND (0.51)
July 30 th , 2019	Cs-137	` ,	ND (0.62)
*Discharged on	Gross β		ND (0.39)
August 4 th	H-3	930	990
July 29 th , 2019	Cs-134	ND (0.60)	ND (0.67)
, - ,	Cs-137	ND (0.71)	ND (0.69)

August 3 rd	Gross β	ND (2.3)	ND (0.34)
	H-3	830	800
L L coth co. 40	Cs-134	ND (0.74)	ND (0.57)
July 28 th , 2019	Cs-137	ND (0.63)	ND (0.59)
*Discharged on August 2 nd	Gross β	ND (2.4)	ND (0.36)
August 2**	H-3	700	750
	Cs-134	ND (0.49)	ND (0.71)
July 27 th , 2019	Cs-137	ND (0.63)	ND (0.66)
*Discharged on August 1 st	Gross β	ND (2.4)	ND (0.30)
August 1"	H-3	710	760

- * * 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)

	Detected	Analytical body		
Date of sampling	Detected nuclides	JAEA	TEPCO	Japan Chemical Analysis Center
	Cs-134	ND (0.0035)	ND (0.0040)	ND (0.0058)
	Cs-137	0.018	0.022	0.017
July 1 st ,2019	Gross α	ND (0.57)	ND (3.0)	ND (2.1)
July 1 ,2019	Gross β	ND (0.47)	ND (0.73)	ND (0.62)
	H-3	1,200	990	1,100
	Sr-90	0.0022	ND (0.0014)	ND (0.0057)

^{*} ND: represents a value below the detection limit; values in () represent the detection limit.

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 20 th , 2019	Cs-134	ND (0.61)
·	Cs-137	ND (0.68)
*Sampled before discharge of purified	Gross β	12
groundwater.	H-3	ND (1.6)

(Reference)

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

X The operational target of Gross β is 1 Bq/L in the survey which is conducted once every ten days.

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)

Date of sampling *Date of discharge Detected nuclides TEPCO		,		(Onit. Dq/i	
*Date of discharge Detected nuclides TEPCO Japan Chemical Analysis Center August 21st, 2019 Cs-134 ND (0.60) ND (0.45) *Discharged on August 29th Gross β ND (0.70) ND (0.56) H-3 130 130 August 14th, 2019 Cs-134 ND (0.71) ND (0.70) *Discharged on August 23th Gross β ND (0.75) ND (0.69) H-3 120 130 August 6th, 2019 Cs-134 ND (0.70) ND (0.56) *Discharged on August 15th Gross β ND (0.75) ND (0.48) H-3 130 130 Sharper of the company of the	Date of sampling		Analyti	cal body	
August 21 st , 2019 Cs-137 ND (0.78) ND (0.43) *Discharged on August 29 th Gross β ND (0.70) ND (0.56) H-3 130 130 August 14 th , 2019 Cs-134 ND (0.71) ND (0.70) *Discharged on August 23 rd Gross β ND (0.65) ND (0.32) H-3 120 130 Cs-134 ND (0.70) ND (0.56) August 6 th , 2019 Cs-134 ND (0.70) ND (0.56) *Discharged on August 15 th Gross β ND (0.78) ND (0.53) H-3 130 130 Cs-134 ND (0.60) ND (0.53) H-3 130 130 Cs-134 ND (0.60) ND (0.52) July 30 th , 2019 Cs-134 ND (0.60) ND (0.52) *Discharged on August 8 th Gross β ND (0.72) ND (0.54) H-3 120 130 Cs-134 ND (0.69) ND (0.44) H-3 120 130 Cs-137 ND (0.69)<	. •	Detected nuclides	TEPCO	Japan Chemical Analysis Center	
*Discharged on August 29 th H-3 Cs-134 ND (0.70) ND (0.56) H-3 130 130 Cs-134 ND (0.71) ND (0.70) ND (0.69) *Discharged on August 23 rd H-3 120 130 Cs-134 ND (0.75) ND (0.32) H-3 120 130 Cs-134 ND (0.70) ND (0.56) ND (0.57) ND (0.52) This charged on August 8 th ND (0.72) ND (0.54) H-3 120 130 Cs-134 ND (0.72) ND (0.54) H-3 120 130 Cs-134 ND (0.69) ND (0.54) H-3 120 130 Cs-134 ND (0.69) ND (0.49) July 23 rd , 2019 Cs-137 ND (0.68) ND (0.42) *Discharged on August 1s ^{tt} Gross β ND (0.64) ND (0.57)		Cs-134	ND (0.60)	ND (0.45)	
H-3 130 130 August 14 th , 2019 Cs-134 ND (0.71) ND (0.70) *Discharged on August 23 rd Gross β ND (0.65) ND (0.69) *Discharged on August 15 th Cs-134 ND (0.70) ND (0.56) *Discharged on August 15 th Gross β ND (0.75) ND (0.48) *Discharged on August 15 th Gross β ND (0.78) ND (0.53) *Discharged on August 15 th Gross β ND (0.75) ND (0.52) *Discharged on August 8 th Gross β ND (0.72) ND (0.54) *Discharged on August 8 th Gross β ND (0.72) ND (0.54) *Discharged on August 15 th Gross β ND (0.69) ND (0.49) *Discharged on August 15 th Gross β ND (0.68) ND (0.42) *Discharged on August 15 th Gross β ND (0.64) ND (0.57) *Discharged on August 15 th Gross β ND (0.64) ND (0.57) *Discharged on August 15 th Gross β ND (0.64) ND (0.57)	August 21 st , 2019	Cs-137	ND (0.78)	ND (0.43)	
H-3		Gross β	ND (0.70)	ND (0.56)	
August 14th, 2019 Cs-137 ND (0.75) ND (0.69) *Discharged on August 23rd Gross β ND (0.65) ND (0.32) H-3 120 130 Cs-134 ND (0.70) ND (0.56) August 6th, 2019 Cs-137 ND (0.75) ND (0.48) *Discharged on August 15th Gross β ND (0.75) ND (0.53) H-3 130 130 Cs-134 ND (0.60) ND (0.52) Cs-137 ND (0.75) ND (0.44) *Discharged on August 8th Gross β ND (0.72) ND (0.54) H-3 120 130 Cs-134 ND (0.69) ND (0.49) July 23rd, 2019 Cs-134 ND (0.68) ND (0.42) *Discharged on August 1st Gross β ND (0.64) ND (0.57)	August 29	H-3	130	130	
*Discharged on August 23 rd Gross β ND (0.65) ND (0.32) H-3 120 130 Cs-134 ND (0.70) ND (0.56) *Discharged on August 15 th Gross β ND (0.75) ND (0.48) *Discharged on August 15 th Gross β ND (0.78) ND (0.53) H-3 130 130 Cs-134 ND (0.60) ND (0.52) July 30 th , 2019 Cs-137 ND (0.75) ND (0.44) *Discharged on August 8 th Gross β ND (0.72) ND (0.54) H-3 120 130 Cs-134 ND (0.69) ND (0.49) July 23 rd , 2019 Cs-137 ND (0.68) ND (0.42) *Discharged on August 1st Gross β ND (0.64) ND (0.57) August 1st ND (0.64) ND (0.57) *Discharged on August 1st ND (0.64) ND (0.57)	4.40	Cs-134	ND (0.71)	ND (0.70)	
August 23rd H-3 120 130 Cs-134 ND (0.70) ND (0.56) August 6th, 2019 Cs-137 ND (0.75) ND (0.44) *Discharged on August 8th Cs-134 ND (0.75) ND (0.54) July 23rd, 2019 Cs-134 ND (0.69) ND (0.42) *Discharged on August 1st Gross β ND (0.64) ND (0.67) *Discharged on August 1st Gross β ND (0.64) ND (0.57)	August 14 ^{tn} , 2019	Cs-137	ND (0.75)	ND (0.69)	
H-3		Gross β	ND (0.65)	ND (0.32)	
August 6th, 2019 Cs-137 ND (0.75) ND (0.48) *Discharged on August 15th Gross β ND (0.78) ND (0.53) H-3 130 130 Cs-134 ND (0.60) ND (0.52) July 30th, 2019 Cs-137 ND (0.75) ND (0.44) *Discharged on August 8th Gross β ND (0.72) ND (0.54) H-3 120 130 Cs-134 ND (0.69) ND (0.49) July 23rd, 2019 Cs-137 ND (0.68) ND (0.42) *Discharged on August 1st Gross β ND (0.64) ND (0.57)	August 23 ⁻³	H-3	120	130	
*Discharged on August 15 th Gross β ND (0.78) ND (0.53) H-3 130 130 Cs-134 ND (0.60) ND (0.52) *Discharged on August 8 th Gross β ND (0.75) ND (0.44) July 23 rd , 2019 Cs-137 ND (0.69) ND (0.49) July 23 rd , 2019 Cs-137 ND (0.68) ND (0.42) *Discharged on August 1st Gross β ND (0.64) ND (0.57) ND (0.57) *Discharged on August 1st Gross β ND (0.64) ND (0.57) ND (0.57		Cs-134	ND (0.70)	ND (0.56)	
August 15th H-3 130 130 July 30th, 2019 Cs-134 ND (0.60) ND (0.52) Cs-134 ND (0.75) ND (0.44) *Discharged on August 1st Cs-134 ND (0.75) ND (0.54) ND (0.44) ND (0.44) ND (0.44) ND (0.44) ND (0.57) ND (0.52) ND (0.52) ND (0.54) ND (0.42) ND (0.64) ND (0.42) ND (0.64) ND (0.57)	August 6 ^{tn} , 2019	Cs-137	ND (0.75)	ND (0.48)	
H-3 130 130 July 30 th , 2019 Cs-134 ND (0.60) ND (0.52) *Discharged on August 8 th Gross β ND (0.72) ND (0.54) H-3 120 130 Uly 23 rd , 2019 Cs-137 ND (0.69) ND (0.49) *Discharged on August 1 st Gross β ND (0.64) ND (0.42) *Discharged on August 1 st Gross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) *Discharged on August 1 st Oross β ND (0.64) ND (0.57) Oross β Oross β		Gross β	ND (0.78)	ND (0.53)	
July 30th, 2019 Cs-137 ND (0.75) ND (0.44) *Discharged on August 8th Gross β ND (0.72) ND (0.54) H-3 120 130 Cs-134 ND (0.69) ND (0.49) July 23rd, 2019 Cs-137 ND (0.68) ND (0.42) *Discharged on August 1st Gross β ND (0.64) ND (0.57)	August 15"	H-3	130	130	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Cs-134	ND (0.60)	ND (0.52)	
August 8th H-3 120 130 Use (8th 2) 130 Cs-134 ND (0.69) ND (0.49) Value (100 m) ND (0.49) ND (0.42) *Discharged on August 1st Gross β ND (0.64) ND (0.57)	July 30 [™] , 2019	Cs-137	ND (0.75)	ND (0.44)	
H-3 120 130 Cs-134 ND (0.69) ND (0.49) July 23 rd , 2019 *Discharged on August 1 st Gross β ND (0.64) ND (0.57)		Gross β	ND (0.72)	ND (0.54)	
July 23 rd , 2019 Cs-137 ND (0.68) ND (0.42) *Discharged on August 1 st Gross β ND (0.64) ND (0.57)	August o	H-3	120	130	
*Discharged on August 1st		Cs-134	ND (0.69)	ND (0.49)	
August 1st	July 23 rd , 2019	Cs-137	ND (0.68)	ND (0.42)	
H-3 120 130		Gross β	ND (0.64)	ND (0.57)	
5 5	August 15	H-3	120	130	

^{* *} ND: represents a value below the detection limit; values in () represent the detection limit

^{*} In order to ensure the results, Japan Chemical Analysis Center, a third-party organization, has also conducted an analysis and verified the radiation level of the sampled water.

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)

		Analytical body		
Date of sampling	Detected nuclides	JAEA	TEPCO	Japan Chemical Analysis Center
	Cs-134	ND (0.0034)	ND (0.0047)	ND (0.0057)
	Cs-137	ND (0.0020)	0.0082	ND (0.0047)
July 2 nd , 2019	Gross α	ND (0.60)	ND (4.0)	ND (2.1)
July 2 , 2019	Gross β	ND (0.46)	ND (0.73)	ND (0.58)
	H-3	120	110	120
	Sr-90	0.0011	ND (0.0015)	ND (0.0059)

 $^{^{\}star}$ ND: represents a value below the detection limit; values in () represent the detection limit.

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

(Unit: Bq/L)

Date of sampling	Detected nuclides	Sampling point (South discharge channel)
	Cs-134	ND (0.79)
Luna 20th 2040	Cs-137	ND (0.53)
June 20 th , 2019	Gross β	13
	H-3	1.6

(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

 $[\]fint M$ The operational target of Gross $\fint \beta$ is 1 Bq/L in the survey which is conducted once every ten days.