# July 25, 2014 Tokyo Electric Power Company Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Underground Water Obtained at Bank Protection)

<Reference>



### Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (1/10) Underground Water Obtained at Bank Protection

														Unit: Bq/	L (exclude chloride
		Underground water observation hole No.0-1	Underground water observation hole No.0-1-1	Underground water observation hole No.0-1-2	Underground water observation hole No.0-2	Underground water observation hole No.0-3-1	Underground water observation hole No.0-3-2	Underground water observation hole No.0-4	Underground water observation hole No.1	Underground water observation hole No.1-8	Underground water observation hole No.1-9	Underground water observation hole No.1-11	Underground water observation hole No.1-12	Underground water observation hole No.1-14	Underground water observation hole No.1-16
	Date of sampling	/	/	/	/	/	1 /	/	Jan 9, 2014	Jan 13, 2014	Jan 16, 2014	Jan 9, 2014	Jan 9, 2014	Jan 13, 2014	Jan 9, 2014
	Time of sampling	/	/	/	/	/	/	/	10:25 AM	9:38 AM	6:56 AM	9:10 AM	9:21 AM	10:30 AM	9:51 AM
	Chloride (unit: ppm)	/	/	/	/	/	/	/	-	-	250	-	-	-	-
	Cs-134 (Approx. 2 years)	/	/	/	/			/	ND(0.40)	31	2.9	0.76	4.6	0.79	ND(3.3)
(	Cs-137 (Approx.30 years)	/	/	/	/	/	/	/	ND(0.52)	71	6.8	1.3	11	1.9	ND(1.7)
	Mn-54 (Approx. 310 days)		/	/	/		/	/	ND	7.0	ND	ND	ND	ND	ND
The	Co-60 (Approx. 5 years)	/	/	/	/		/	/	ND	0.67	ND	ND	ND	ND	ND
other y	Sb-125 (Approx. 3 years)		/	/	/			/	ND	ND	ND	ND	ND	ND	ND
		/	/	/	/			/							
	Gross β	/	/	/	/			/	590	35,000	96	54	130	360	2,200,000
	H-3 (Approx. 12 years)	/	/	/	/	/	/	/	240,000	10,000	420	17,000	36,000	10,000	12,000
:	Sr-90 (Approx. 29 years)	/	/	/	/	/	/	/	440	25,000	60	22 <sup>*1</sup>	63	300	1,900,000
		Underground water observation hole No.1-16(P)	Underground water observation hole No.1-17	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	
	Date of sampling	Underground water observation hole No.1-16(P) Jan 30, 2014	Underground water observation hole No.1-17 Jan 9, 2014	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	,
	Date of sampling Time of sampling	Underground water observation hole No.1-16(P) Jan 30, 2014 11:00 AM	Underground water observation hole No.1-17 Jan 9, 2014 10:45 AM	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	
	Date of sampling Time of sampling Chloride (unit: ppm)	Underground water observation hole No.1-16(P) Jan 30, 2014 11:00 AM	Underground water observation hole No.1-17 Jan 9, 2014 10:45 AM -	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	
	Date of sampling Time of sampling Chloride (unit: ppm) Cs-134 (Approx. 2 years)	Underground water observation hole No.1-16(P) Jan 30, 2014 11:00 AM - ND(2.1)	Underground water observation hole No.1-17 Jan 9, 2014 10:45 AM - ND(0.54)	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	
	Date of sampling Time of sampling Chloride (unit: ppm) Cs-134 (Approx. 2 years) Cs-137 (Approx.30 years)	Underground water observation hole No.1-16(P) Jan 30, 2014 11:00 AM - ND(2.1) ND(1.0)	Underground water observation hole No.1-17 Jan 9, 2014 10:45 AM - ND(0.54) ND(0.45)	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	
	Date of sampling Time of sampling Chloride (unit: ppm) Cs-134 (Approx. 2 years) Cs-137 (Approx.30 years) Mn-54 (Approx. 310 days)	Underground water observation hole No.1-16(P) Jan 30, 2014 11:00 AM - ND(2.1) ND(1.0) ND	Underground water observation hole No.1-17 Jan 9, 2014 10:45 AM - ND(0.54) ND(0.45) ND	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	
	Date of sampling Time of sampling Chloride (unit: ppm) Cs-134 (Approx. 2 years) Cs-137 (Approx. 30 years) Mn-54 (Approx. 310 days) Co-60 (Approx. 5 years)	Underground water observation hole No.1-16(P) Jan 30, 2014 11:00 AM - ND(2.1) ND(1.0) ND ND	Underground water observation hole No.1-17 Jan 9, 2014 10:45 AM - ND(0.54) ND(0.45) ND 0.37	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	
The other y	Date of sampling         Time of sampling         Chloride (unit: ppm)         Cs-134 (Approx. 2 years)         Cs-137 (Approx.30 years)         Mn-54 (Approx. 310 days)         Co-60 (Approx. 5 years)         Sb-125 (Approx. 3 years)	Underground water observation hole No.1-16(P) Jan 30, 2014 11:00 AM - ND(2.1) ND(1.0) ND ND 10	Underground water observation hole No.1-17 Jan 9, 2014 10:45 AM - ND(0.54) ND(0.45) ND 0.37 1.8	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	
The other y	Date of sampling         Time of sampling         Chloride (unit: ppm)         Cs-134 (Approx. 2 years)         Cs-137 (Approx.30 years)         Mn-54 (Approx. 310 days)         Co-60 (Approx. 5 years)         Sb-125 (Approx. 3 years)	Underground water observation hole No.1-16(P) Jan 30, 2014 11:00 AM - ND(2.1) ND(1.0) ND ND 10	Underground water observation hole No.1-17 Jan 9, 2014 10:45 AM - ND(0.54) ND(0.45) ND 0.37 1.8	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	
The other y	Date of sampling         Time of sampling         Chloride (unit: ppm)         Cs-134 (Approx. 2 years)         Cs-137 (Approx.30 years)         Mn-54 (Approx. 310 days)         Co-60 (Approx. 5 years)         Sb-125 (Approx. 3 years)         Gross β	Underground water observation hole No.1-16(P) Jan 30, 2014 11:00 AM - ND(2.1) ND(2.1) ND(1.0) ND 10 10 1,700,000	Underground water observation hole No.1-17 Jan 9, 2014 10:45 AM - ND(0.54) ND(0.45) ND 0.37 1.8 89	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	
The other y	Date of sampling Time of sampling Chloride (unit: ppm) Cs-134 (Approx. 2 years) Cs-137 (Approx.30 years) Mn-54 (Approx. 310 days) Co-60 (Approx. 5 years) Sb-125 (Approx. 3 years) Gross β H-3 (Approx. 12 years)	Underground water observation hole No.1-16(P) Jan 30, 2014 11:00 AM - ND(2.1) ND(2.1) ND(1.0) ND 10 10 1,700,000 41,000	Underground water observation hole No.1-17 Jan 9, 2014 10:45 AM - ND(0.54) ND(0.45) ND 0.37 1.8 89 30,000	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	

\* Data announced this time is provided in a thick-frame. The other data was announced on January 10, 14, 17, 20, 30, and 31, 2014.

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

\* "-" indicates that the measurement was out of range.

## Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (2/10) Underground Water Obtained at Bank Protection

					-	-	-	-						Unit: Bq	/L (exclude chloride)
		Underground water observation hole No.0-1	Underground water observation hole No.0-1-2	Underground water observation hole No.0-2	Underground water observation hole No.0-3-1	Underground water observation hole No.0-3-2	Underground water observation hole No.0-4	Underground water observation hole No.1	Underground water observation hole No.1-6	Underground water observation hole No.1-8	Underground water observation hole No.1-9	Underground water observation hole No.1-11	Underground water observation hole No.1-12	Underground water observation hole No.1-13	Underground water observation hole No.1-14
	Date of sampling	/	1 /	1 /	/	/	/	Feb 13, 2014	Feb 13, 2014	Feb 17, 2014	Feb 13, 2014	Feb 13, 2014	Feb 13, 2014	Feb 12, 2014	Feb 13, 2014
	Time of sampling	/	/	/	/	/	/	10:35 AM	10:50 AM	10:09 AM	7:37 AM	11:18 AM	9:35 AM	12:10 PM	9:51 AM
	Chloride (unit: ppm)	/		/	/	/	/	-	-	-	310	-	-	-	-
(	Cs-134 (Approx. 2 years)	/					/	ND(0.62)	2,400	39	6.3	0.50	9.4	22,000	1.1
(	Cs-137 (Approx.30 years)		/	/			/	0.69	5,900	93	16	1.5	23	54,000	2.4
	Mn-54 (Approx. 310 days)		/	/	/	/	/	ND	320	8.3	ND	ND	ND	ND	ND
The	Co-60 (Approx. 5 years)				/	/		ND	770	0.59	ND	ND	ND	ND	ND
other y	Ru-106 (Approx. 370 days)							ND	ND	ND	ND	ND	ND	ND	ND
	Gross β							440	640,000	56,000	86	ND(19)	140	260,000	440
	H-3 (Approx. 12 years)	/	/	/	/	/	/	230,000	15,000	9,900	320	10,000	33,000	88,000	23,000
5	Sr-90 (Approx. 29 years)	/	/	/	/	/	/	460	590,000 <sup>*1</sup>	35,000*1	67	8.6	43	160,000	280
		T	T	Croundwater			1			Γ		Croundwater			T
		Underground water observation hole No.1-16	Underground water observation hole No.1-17	pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Underground water observation hole No.2-9*	pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5
	Date of sampling	Feb 13, 2014	Feb 13, 2014	/	/	/	/	/	/	/ /	Feb 11, 2014	/	/	/	1 /
	Time of sampling	9:57 AM	10:54 AM	/	/	/	/	/	/		12:44 PM	/	/	/	/
	Chloride (unit: ppm)	-	-	/	/	/	/	/	/		-	/	/	/	/
(	Cs-134 (Approx. 2 years)	ND(2.2)	ND(0.43)		/	/	/	/	/	/	ND(0.46)	/	/	/	/
0	Cs-137 (Approx.30 years)	4.0	ND(0.49)	/	/	/	/	/	/	/	0.58	/	/	/	/
	Mn-54 (Approx. 310 days)	ND	ND	/	/	/	/	/	/	/	ND	/	/	/	/
The	Co-60 (Approx. 5 years)	ND	ND				/		/		ND	/	/	/	
other y	Ru-106 (Approx. 370 days)	ND	ND								6.5				
							/								
	Gross β	3,000,000	ND(19)								1,200				
	H-3 (Approx. 12 years)	8,700	15,000								13,000			/	
5	Sr-90 (Approx. 29 years)	2,700,000*1	1.8								1,200	/			

\* Data announced this time is provided in a thick-frame. The other data was announced on February 12, 13, 14, 17, 18, and 21, 2014.

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

\* "-" indicates that the measurement was out of range.

\* The results obtained in the observation hole No.2-9 are for a reference, since the water was highly turbid. (γ and Gross β will be measured after filtration. If filtration takes a long time, γ will not be measured.)

### Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (3/10) Underground Water Obtained at Bank Protection

														Unit: Bq	L (exclude chloride)
		Underground water observation hole No.0-1	Underground water observation hole No.0-1-2	Underground water observation hole No.0-2	Underground water observation hole No.0-3-1	Underground water observation hole No.0-3-2	Underground water observation hole No.0-4	Underground water observation hole No.1	Underground water observation hole No.1-6	Underground water observation hole No.1-8	Underground water observation hole No.1-9	Underground water observation hole No.1-11	Underground water observation hole No.1-12	Underground water observation hole No.1-14	Underground water observation hole No.1-16
	Date of sampling	/	/	/	1	/	/	Mar 10, 2014	Mar 10, 2014	Mar 17, 2014	Mar 11, 2014	Mar 10, 2014	Mar 10, 2014	Mar 10, 2014	Mar 10, 2014
	Time of sampling	/	/	/	/	/	/	10:41 AM	11:03 AM	11:20 AM	7:07 AM	10:18 AM	9:35 AM	9:52 AM	10:05 AM
	Chloride (unit: ppm)		/	/		/	/	-	-	-	280	-	-	-	-
(	Cs-134 (Approx. 2 years)		/	/		/		ND(0.35)	3,800	19	5.0	0.56	3.2	2.5	ND(1.3)
C	s-137 (Approx.30 years)		/	/		/	/	0.50	9,700	49	14	1.7	9.7	6.4	2.0
	Mn-54 (Approx. 310 days)		/	/		/	/	ND	150	3.5	ND	ND	ND	ND	ND
The	Co-60 (Approx. 5 years)		/	/		/		ND	410	0.34	ND	ND	ND	ND	ND
other $\gamma$	Sb-125 (Approx. 3 years)			/				ND	ND	ND	ND	ND	ND	ND	8.7
				/											
	Gross β		/	/				270	480,000	24,000	80	ND(18)	79	810	1,000,000
	H-3 (Approx. 12 years)	1/	/	/	/	/	/	190,000	17,000	6,500	360	15,000	34,000	11,000	7,500
s	r-90 (Approx. 29 years)	/	/	/	/	/	/	180	400,000	22,000	44	7.7	43	770 <sup>*1</sup>	1,000,000
		Underground water observation hole No.1-17	Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Underground water observation hole No.2-8	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5	]
	Date of sampling	Mar 10, 2014	/	/	1	1 /	1	/	/ /	Mar 30, 2014	/	/	/	1	
	Time of sampling	9:52 AM	/	/	/	/	/	/		11:53 AM	/	/	/	/	
	Chloride (unit: ppm)	-	/	/		/				-	/	/	/		
(	cs-134 (Approx. 2 years)	0.49								ND(0.44)	/	/	/		
C	s-137 (Approx.30 years)	1.5		/						ND(0.51)	/	/	/	/	
	Mn-54 (Approx. 310 days)	ND		/	/		/	/	/	ND	/	/	/		1

ND

ND

4,100

1,400

3,900

\* Data announced this time is provided in a thick-frame. The other data was announced on March 11, 12, 14, 18, 21, 31, and April 3, 2014. \* "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

\* "-" indicates that the measurement was out of range.

Co-60 (Approx. 5 years)

Sb-125 (Approx. 3 years)

Gross β

H-3 (Approx. 12 years) Sr-90 (Approx. 29 years)

The other ND

ND

640

8,000

620<sup>\*1</sup>

\* We initially announced that Sr-90 obtained in observation hole No.1-8 on March 10 was under analysis. However, we corrected the date to March 17.

### Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (4/10) Underground Water Obtained at Bank Protection

															Unit: Bq/	L (exclude chloride)
		Underground water observation hole No.0-1	Underground water observation hole No.0-1-2	Underground water observation hole No.0-2	Underground water observation hole No.0-3-1	Underground water observation hole No.0-3-2	Underground water observation hole No.0-4	Underground water observation hole No.1	Underground water observation hole No.1-6	Underground water observation hole No.1-8	Underground water observation hole No.1-9	Underground water observation hole No.1-11	Underground water observation hole No.1-12	Underground water observation hole No.1-14	Underground water observation hole No.1-16	Underground water observation hole No.1-17
	Date of sampling	Jul 20, 2014	41,840	Jul 20, 2014	Jul 20, 2014	/	Jul 20, 2014	Jul 21, 2014	Jul 21, 2014	Jul 21, 2014	Jul 22, 2014	Jul 21, 2014	Jul 21, 2014	Jul 21, 2014	Jul 21, 2014	Jul 21, 2014
	Time of sampling	12:17 PM	11:29 AM	10:53 AM	11:12 AM	/	9:53 AM	10:05 AM	10:20 AM	10:32 AM	6:34 AM	9:47 AM	10:30 AM	9:50 AM	11:00 AM	9:30 AM
	Chloride (unit: ppm)	-	-	-	-	/	-	-	-	-	27	-	-	-	-	-
С	s-134 (Approx. 2 years)	19	ND(0.43)	ND(0.40)	ND(0.42)	/	ND(0.35)	ND(0.39)	9,000	9.8	2.3	0.50	2.7	33	ND(2.0)	ND(0.78)
C	s-137 (Approx.30 years)	51	ND(0.55)	ND(0.49)	ND(0.57)	/	ND(0.50)	0.59	25,000	28	6.9	1.9	7.8	94	1.3	1.1
	Mn-54 (Approx. 310 days)	ND	ND	ND	ND	/	ND	ND	140	1.6	ND	ND	ND	0.45	ND	ND
The	Co-60 (Approx. 5 years)	ND	ND	ND	ND	/	ND	ND	610	ND	ND	ND	ND	ND	0.52	ND
other y	Sb-125 (Approx. 3 years)	ND	ND	ND	ND	/	ND	ND	ND	ND	ND	ND	ND	ND	18	ND
	Gross β	170	ND(18)	ND(18)	ND(18)		ND(18)	93	1,200,000	15,000	31	120	580	8,200	690,000	89,000
1	H-3 (Approx. 12 years)	4,000	4,900	380	ND(100)	[/	570	140,000	5,000	7,600	ND(110)	4,900	17,000	4,200	4,900	9,900
S	r-90 (Approx. 29 years)	-	-	-	-	/	-	-	-	Under analysis	-	-	-	-	-	-

		Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Underground water observation hole No.2-8	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-2	Underground water observation hole No.3-3	Underground water observation hole No.3-4	Underground water observation hole No.3-5
	Date of sampling	Jul 21, 2014	/	/	/	/	Jul 22, 2014	/	/	/	/	/	/	/	/
	Time of sampling	10:00 AM	/	/	/	/	9:52 AM	/	/	/	/	/	/	/	/
	Chloride (unit: ppm)	-	/		/	/	-	/	/	/	/	/	/	/	/
С	s-134 (Approx. 2 years)	8.2	/	/	/	/	ND(0.37)	/	/	/	/	/	/	/	/
C	s-137 (Approx.30 years)	26	/	/	/	/	0.73	/	/	/	/	/	/	/	/
	Mn-54 (Approx. 310 days)	3.1	/		/		ND	/	/	/	/			/	/
The	Co-60 (Approx. 5 years)	ND				/	ND	/	/			/	/	/	/
other y	Sb-125 (Approx. 3 years)	ND	/			/	ND	/					/	/	/
			/	/		/							/	/	
	Gross β	290,000			/		2,100		/			/			
I	H-3 (Approx. 12 years)	51,000	[/	/	/	/	940	/	/	/	/	/	/	/	/
S	r-90 (Approx. 29 years)	-	V	/	/	/	-	/	/	/	/	/	/	/	/

\* Data announced this time is provided in a thick-frame. The other data was announced on June 21, 22, and 23.

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

\* "-" indicates that the measurement was out of range.

### Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (5/10) Underground Water Obtained at Bank Protection

															Unit: Bq/	L (exclude chloride)
		Underground water observation hole No.0-1	Underground water observation hole No.0-1-2	Underground water observation hole No.0-2	Underground water observation hole No.0-3-1	Underground water observation hole No.0-3-2	Underground water observation hole No.0-4	Underground water observation hole No.1	Underground water observation hole No.1-6	Underground water observation hole No.1-8	Underground water observation hole No.1-9	Underground water observation hole No.1-11	Underground water observation hole No.1-12	Underground water observation hole No.1-14	Underground water observation hole No.1-16	Underground water observation hole No.1-17
	Date of sampling		/ /	/	/	Jul 24, 2014	/	Jul 24, 2014	Jul 24, 2014	/	Jul 24, 2014	Jul 24, 2014	Jul 24, 2014	Jul 24, 2014	Jul 24, 2014	Jul 24, 2014
	Time of sampling	/		/	/	9:30 AM	/	10:11 AM	10:30 AM	/	7:05 AM	9:53 AM	9:40 AM	9:55 AM	10:10 AM	9:34 AM
	Chloride (unit: ppm)	/		/		-	/	-	-	/	22	-	-	-	-	-
С	s-134 (Approx. 2 years)	/				ND(0.40)	/	ND(0.52)	8,500	/	2.0	0.47	2.8	26	ND(1.7)	ND(0.63)
C	s-137 (Approx.30 years)			/		0.70	/	ND(0.47)	24,000	/	5.3	1.7	8.1	78	1.3	ND(0.74)
	Mn-54 (Approx. 310 days)			/		ND	/	ND	120	/	ND	ND	ND	0.77	ND	ND
The	Co-60 (Approx. 5 years)					ND		ND	510	/	ND	ND	ND	ND	ND	ND
other y	Ru-106 (Approx. 370 days)	/				ND	/	3.7	ND	/	ND	ND	ND	ND	ND	ND
	Sb-125 (Approx. 3 years)					ND	/	0.97	ND	/	ND	ND	ND	ND	13	ND
	Gross β	/			/	ND(18)	/	120	890,000		ND(17)	120	370	10,000*1	770,000	110,000 <sup>*1</sup>
I	H-3 (Approx. 12 years)	/	/	/	/	Under analysis	/	Under analysis	Under analysis	/	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis
S	-90 (Approx. 29 years)	/	/	/	/	-	/	-	-	/	-	-	-	-	-	-

		Groundwater pumped up from the well point (between Unit 1 and 2)	Underground water observation hole No.2	Underground water observation hole No.2-2	Underground water observation hole No.2-3	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.2-7	Underground water observation hole No.2-8	Groundwater pumped up from the well point (between Unit 2 and 3)	Underground water observation hole No.3	Underground water observation hole No.3-2	Underground water observation hole No.3-3	Underground water observation hole No.3-4	Underground water observation hole No.3-5
	Date of sampling	/	/		/ /	/	Jul 24, 2014	/	/	/	/	/	/	/	/
	Time of sampling	/	/			/	10:37 AM	/	/	/	/	/	/	/	/
	Chloride (unit: ppm)	/	/			/	-	/	/	/		/	/	/	/
	Cs-134 (Approx. 2 years)	/	/		/	/	ND(0.42)	/	/	/	/	/	/	/	/
	Cs-137 (Approx.30 years)	/	/	/	/	/	0.53	/	/	/	/	/		/	/
	Mn-54 (Approx. 310 days)	/	/		/	/	ND	/	/	/	/	/		/	/
The	Co-60 (Approx. 5 years)	/	/			/	ND	/				/			
other	PRu-106 (Approx. 370 days)	/	/			/	ND	/	/	/	/	/			
	Sb-125 (Approx. 3 years)		/				ND								
	Gross β	/				/	2,100	/			/	/		/	
	H-3 (Approx. 12 years)	/	/	/	/	/	Under analysis	/	/	/	/	/	/	/	/
	Sr-90 (Approx. 29 years)	/	/	/	/	/	-	/	/	/	/	/	/	/	/

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

\* "-" indicates that the measurement was out of range.

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Seawater)



### Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (6/10) Seawater

Unit: Bq/L

	1F, North side of Unit 5,6 discharge channel	1F, In front of Unit 6 water intake channel	1F, In front of shallow draft quay	1F, North side of Unit 1-4 water intake channel	1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break)	1F, Unit 1 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 1 and Unit 2 (surface layer)	1F, Between the water intake channel of Unit 1 and Unit 2 (lower layer)	1F, Unit 2 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 3 and Unit 4	Density Limit Specified by the Reactor Regulatio n *	WHO Guidelines for drinking- water quality
Date of Sampling	Jan 13, 2014		Jan 13, 2014	Jan 19, 2014	Jan 13, 2014	Jan 13, 2014	Jan 19, 2014	Jan 19, 2014	Jan 13, 2014	Jan 13, 2014	Jan 13, 2014	Jan 13, 2014		
Time of sampling	6:30 AM		6:19 AM	6:40 AM	6:53 AM	6:27 AM	6:47 AM	6:47 AM	6:31 AM	6:36 AM	6:41 AM	6:45 AM		
Cs-134(Approx. 2 years)	ND(0.81)		2.4	18	5.3	16	20	8.3	15	9.6	11	8.0	60	10
Cs-137(Approx.30 years)	ND(0.82)		5.8	48	16	40	45	20	35	30	28	19	90	10
Gross β	11		33	440	46	230	470	110	230	140	110	85		
H-3 (Approx. 12 years)	ND(1.7)		7.7	990	ND(110)	620	940	300	640	300	200	150	60,000	10,000
Sr-90 (Approx. 29 years)	0.13		2.2	400	24	160	360	60	150	86	52	67	30	10

													ι	Jnit: Bq/L
	1F, Unit 4 Screen (Inside the Silt Fence)	1F, Around the south discharge channel	1F, Port entrance	1F, East side in the port	1F, West side in the port	1F, North side in the port	1F, South side in the port	North side of the north breakwater	Northeast side of the port entrance	East side of the port entrance	Southeast side of the port entrance	South side of the south breakwater	Density Limit Specified by the Reactor Regulatio n *	WHO Guidelines for drinking- water quality
Date of Sampling	Jan 13, 2014	Jan 13, 2014	Jan 27, 2014	/	/	/	/	/	/	/	/	/		
Time of sampling	6:44 AM	5:50 AM	9:42 AM											
Cs-134(Approx. 2 years)	8.6	ND(0.73)	ND(1.0)										60	10
Cs-137(Approx.30 years)	22	ND(0.59)	ND(1.1)										90	10
Gross β	100	15	ND(15)											
H-3 (Approx. 12 years)	130	ND(1.7)	ND(2.0)										60,000	10,000
Sr-90 (Approx. 29 years)	43	0.023	ND(0.14)		V	/	/	V	/	V	/	V	30	10

\* Data announced this time is provided in a thick-frame. The other data was announced on January 14, 17, 20, 22, 28, and February 4, 2014.

The results of Sr-90 obtained at north side of Unit 5,6 discharge channel and around the south discharge channel, which are provided in dash line, are previously announced on February 25, 2014.

The result of Sr-90 obtained at north side of Unit 1-4 water intake channel, which is provided in dash line, is previously announced on July 2, 2014.

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

\* "-" indicates that the measurement was out of range.

\* Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2 [the amount is converted from Bq/cm<sup>3</sup> to Bq/L]).

\* We initially announced that Sr-90 obtained at the port entrance on January 20 was under analysis. However, we corrected the date to January 27.

### Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (7/10) Seawater

Unit: Bq/L

	1F, North side of Unit 5,6 discharge channel	1F, In front of Unit 6 water intake channel	1F, In front of shallow draft quay	1F, North side of Unit 1-4 water intake channel	1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break)	1F, Unit 1 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 1 and Unit 2 (surface layer)	1F, Between the water intake channel of Unit 1 and Unit 2 (lower layer)	1F, Unit 2 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 3 and Unit 4	Density Limit Specified by the Reactor Regulatio n *	WHO Guidelines for drinking- water quality
Date of Sampling	Feb 10, 2014	/	Feb 17, 2014	Feb 18, 2014	Feb 17, 2014	Feb 17, 2014	Feb 18, 2014	Feb 18, 2014	Feb 17, 2014	Feb 17, 2014	Feb 17, 2014	Feb 17, 2014		
Time of sampling	7;33		6:47 AM	7:04 AM	7:20 AM	6:53 AM	7:08 AM	7:08 AM	6:58 AM	7:00 AM	7:08 AM	7:13 AM		
Cs-134(Approx. 2 years)	ND(0.80)		ND(2.1)	20	9.0	24	22	17	28	21	30	19	60	10
Cs-137(Approx.30 years)	ND(0.81)		5.9	57	29	64	62	40	67	47	70	46	90	10
Gross β	12		21	380	79	250	340	120	290	210	160	200		
H-3 (Approx. 12 years)	ND(1.7)		2.6	1,100	130	670	1,000	300	640	350	200	300	60,000	10,000
Sr-90 (Approx. 29 years)	0.017		ND(0.72)	330	37	220	340	86	200	140	72	120	30	10

														Jnit: Bq/I
	1F, Unit 4 Screen (Inside the Silt Fence)	1F, Around the south discharge channel	1F, Port entrance	1F, East side in the port	1F, West side in the port	1F, North side in the port	1F, South side in the port	North side of the north breakwater	Northeast side of the port entrance	East side of the port entrance	Southeast side of the port entrance	South side of the south breakwater	Density Limit Specified by the Reactor Regulatio n *	WHO Guideline for drinking- water quality
Date of Sampling	Feb 17, 2014	Feb 17, 2014	Feb 17, 2014	/	/	/	/		/	/	/	/		
Time of sampling	7:11 AM	6:05 AM	9:27 AM											
Cs-134(Approx. 2 years)	13	N D (0.71)	N D (1.7)										60	10
Cs-137(Approx.30 years)	35	0.64	2.0										90	10
Gross β	110	11	ND(15)											
H-3 (Approx. 12 years)	290	ND(1.4)	4.6										60,000	10,000
Sr-90(Approx. 29 years)	50	0.030	1.0	/	$\vee$	$\vee$	$\vee$	/	$\vee$	$\vee$	/	V	30	10

\* Data announced this time is provided in a thick-frame. The other data was announced on February 11, 14, 18, 19, 21, and 25, 2014.

The results of Sr-90 obtained at north side of Unit 5,6 discharge channel and around the south discharge channel, which are provided in dash line, are previously announced on March 25, 2014.

The result of Sr-90 obtained at north side of Unit 1-4 water intake channel, which is provided in dash line, is previously announced on July 2, 2014.

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

\* "-" indicates that the measurement was out of range.

\* Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2 [the amount is converted from Bq/cm<sup>3</sup> to Bq/L]).

\* We initially announced that Sr-90 obtained at the port entrance on February 10 was under analysis. However, we corrected the date to February 17.

### Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (8/10) Seawater

Unit: Ba/L

	1F, North side of Unit 5,6 discharge channel	1F, In front of Unit 6 water intake channel	1F, In front of shallow draft quay	1F, North side of Unit 1-4 water intake channel	1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break)	1F, Unit 1 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 1 and Unit 2 (surface layer)	1F, Between the water intake channel of Unit 1 and Unit 2 (lower layer)	1F, Unit 2 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen (Inside the Silt Fence)	1F, Between the water intake channel of Unit 3 and Unit 4	1F, Unit 4 Screen (Inside the Silt Fence)	Density Limit Specified by the Reactor Regulatio n *	WHO Guidelines for drinking- water quality
Date of Sampling	Mar 10, 2014		Mar 10, 2014	Mar 18, 2014	Mar 10, 2014	Mar 10, 2014	Mar 18, 2014	Mar 18, 2014	Mar 10, 2014	Mar 10, 2014	Mar 10, 2014	Mar 10, 2014	Mar 10, 2014		
Time of sampling	6:25 AM	/	6:25 AM	6:45 AM	7:04 AM	6:33 AM	6:52 AM	6:52 AM	6:38 AM	6:43 AM	6:47 AM	6:51 AM	6:50 AM		
Cs-134(Approx. 2 years)	N D (0.78)		N D (3.1)	11	2.8	8.8	9.9	7.3	10	10	12	8.6	8.7	60	10
Cs-137(Approx.30 years)	0.77		3.6	26	9.6	22	29	17	28	26	25	23	18	90	10
Gross β	13		ND(20)	250	35	250	210	96	230	190	110	170	92		
H-3 (Approx. 12 years)	4.4		4.4	600	ND(110)	610	530	200	490	440	210	340	230	60,000	10,000
Sr-90 (Approx. 29 years)	0.69	/	1.5	260	20	210	200	61	180	150	78	110	75	30	10

													-	L L	ліі. Бү/с
	1F, North side of Unit 1-4 water intake channel (in front of impermeable wall)	1F, Around the south discharge channel	1F, Port entrance	1F, East side in the port	1F, West side in the port	1F, North side in the port	1F, South side in the port	North side of the north breakwater	Northeast side of the port entrance	East side of the port entrance	Southeast side of the port entrance	South side of the south breakwater		Density Limit Specified by the Reactor Regulatio n *	WHO Guidelines for drinking- water quality
Date of Sampling	/	Mar 10, 2014	Mar 10, 2014	/	/	/	/	/	/	/	/	/	/		
Time of sampling		5:40 AM	9:35 AM										/		
Cs-134(Approx. 2 years)		N D (0.55)	N D (1.2)						/		/		/	60	10
Cs-137(Approx.30 years)		N D (0.70)	N D (1.4)										/	90	10
Gross β		13	ND(15)												
H-3 (Approx. 12 years)		ND(1.4)	ND(1.8)										/	60,000	10,000
Sr-90(Approx. 29 years)	/	0.032	0.40	/	/	V	/	/	/	V	/	V	/	30	10

\* Data announced this time is provided in a thick-frame. The other data was announced on March 11, 14, 18, 19, and 21, 2014.

The results of Sr-90 obtained at north side of Unit 5,6 discharge channel and around the south discharge channel, which are provided in dash line, are previously announced on April 18, 2014.

The result of Sr-90 obtained at north side of Unit 1-4 water intake channel, which is provided in dash line, is previously announced on July 18, 2014.

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

\* "-" indicates that the measurement was out of range.

\* Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2 [the amount is converted from Bq/cm<sup>3</sup> to Bq/L]).

### Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (9/10) Seawater

	1F, North side of Unit 5,6 discharge channel	1F, In front of Unit 6 water intake channel	1F, In front of shallow draft quay	1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break)	1F, In front of Unit 1 discharge channel (in front of impermeable wall)	1F, In front of Unit 2 discharge channel (in front of impermeable wall)	1F, Between the water intake channel of Unit 3 and Unit 4	1F, Unit 4 Screen (Inside the Silt Fence)	1F, South side of Unit 1-4 water intake channel (In front of impermeable wall)	1F, Around the south discharge channel	Density Limit Specified by the Reactor Regulation	WHO Guidelines for drinking- water quality
Date of Sampling	Jul 21, 2014	Jul 21, 2014	Jul 21, 2014	Jul 21, 2014	Jul 21, 2014	Jul 21, 2014	Jul 21, 2014	Jul 21, 2014	Jul 21, 2014	Jul 21, 2014		
Time of sampling	6:40 AM	6:20 AM	6:35 AM	6:13 AM	6:30 AM	6:27 AM	6:23 AM	6:19 AM	6:21 AM	5:35 AM		
Cs-134(Approx. 2 years)	ND(0.59)	ND(2.5)	ND(2.0)	2.9	5.2	6.0	22	16	13	1.4	60	10
Cs-137(Approx.30 years)	ND(0.58)	ND(2.7)	2.1	10	18	19	67	56	41	3.4	90	10
Gross β	9.2	ND(19)	19	64	110	140	560	590	220	11		
H-3 (Approx. 12 years)	2.6	ND(3.5)	3.8	ND(110)	220	280	1,900	2,200*1	780 <sup>*1</sup>	4.1	60,000	10,000
Sr-90(Approx. 29 years)	-	-	-	-	-	-	-	-	-	-	30	10

Unit: Bq/L

Unit: Bg/L

	1F, Port entrance	1F, East side in the port	1F, West side in the port	1F, North side in the port	1F, South side in the port	North side of the north breakwater	Northeast side of the port entrance	East side of the port entrance	Southeast side of the port entrance	South side of the south breakwater	Density Limit Specified by the Reactor Regulation *	WHO Guidelines for drinking- water quality
Date of Sampling				/	/	Jul 16, 2014	Jul 16, 2014	Jul 16, 2014	Jul 16, 2014	Jul 16, 2014		
Time of sampling						9:53 AM	9:59 AM	10:07 AM	10:21 AM	10:15 AM		
Cs-134(Approx. 2 years)						ND(0.80)	ND(0.58)	ND(0.54)	ND(0.66)	ND(0.63)	60	10
Cs-137(Approx.30 years)						ND(0.64)	ND(0.72)	ND(0.53)	ND(0.56)	ND(0.72)	90	10
Gross β						ND(17)	ND(17)	ND(17)	ND(17)	ND(17)		
H-3 (Approx. 12 years)						ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	ND(1.9)	60,000	10,000
Sr-90(Approx. 29 years)		V	V	V	/	-	-	-	-	-	30	10

\* Data announced this time is provided in a thick-frame. The other data was announced on July 18 and 22.

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

\* "-" indicates that the measurement was out of range.

\* Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2 [the amount is converted from Bq/cm<sup>3</sup> to Bq/L]).

### Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (10/10) Seawater

	1F, North side of Unit 5,6 discharge channel	1F, In front of Unit 6 water intake channel	1F, In front of shallow draft quay	1F, North side of Unit 1-4 water intake channel (north side of East Seawall Break)	1F, In front of Unit 1 discharge channel (in front of impermeable wall)	1F, In front of Unit 2 discharge channel (in front of impermeable wall)	1F, Between the water intake channel of Unit 3 and Unit 4	1F, Unit 4 Screen (Inside the Silt Fence)	1F, South side of Unit 1-4 water intake channel (In front of impermeable wall)	1F, Around the south discharge channel	Density Limit Specified by the Reactor Regulation	WHO Guidelines for drinking- water quality
Date of Sampling		/	/		/	/	/	/	/	/		
Time of sampling												
Cs-134(Approx. 2 years)											60	10
Cs-137(Approx.30 years)											90	10
Gross β												
H-3 (Approx. 12 years)											60,000	10,000
Sr-90 (Approx. 29 years)	$\bigvee$		V	$\overline{\mathbf{V}}$	V	V	/	/	V		30	10

Unit: Bg/L

Unit: Bg/L

	1F, Port entrance	1F, East side in the port	1F, West side in the port	1F, North side in the port	1F, South side in the port	North side of the north breakwater	Northeast side of the port entrance	East side of the port entrance	Southeast side of the port entrance	South side of the south breakwater	Density Limit Specified by the Reactor Regulation	WHO Guidelines for drinking- water quality
Date of Sampling	/	/			/	Jul 22, 2014	Jul 22, 2014	Jul 22, 2014	Jul 22, 2014	Jul 22, 2014		
Time of sampling						9:51 AM	9:56 AM	10:03 AM	10:10 AM	10:17 AM		
Cs-134(Approx. 2 years)						ND(0.70)	ND(0.68)	ND(0.73)	ND(0.67)	ND(0.74)	60	10
Cs-137(Approx.30 years)						ND(0.66)	ND(0.71)	ND(0.73)	ND(0.66)	ND(0.58)	90	10
Gross β						ND(16)	ND(16)	ND(16)	ND(16)	ND(16)		
H-3 (Approx. 12 years)						Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	60,000	10,000
Sr-90 (Approx. 29 years)	V	V	V	V	V	-	-	-	-	-	30	10

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

\* "-" indicates that the measurement was out of range.

\* Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2 [the amount is converted from Bq/cm<sup>3</sup> to Bq/L]).

#### <Reference> The Highest Dose Until the Previous Measurement (Groundwater Obtained at Bank Protection)

																										_			Unit: Bq/L
		Grou observa	ndwater ation hole	Groun	ndwater ation hole	Grour observa	ndwater ation hole	Groun observa	dwater tion hole	Grour observa	idwater ition hole	Grour	ndwater ation hole	Grour observa	ndwater ation hole	Groun observa	idwater ition hole	Grou observ	ndwater ation hole	Grour observa	ndwater ation hole	Grour observa	ndwater ation hole	Groun observa	dwater tion hole	Groun observa	dwater tion hole	Grour observa	ndwater ation hole
		No	o.0-1	No.	0-1-1	No.	0-1-2	No	.0-2	No.	0-3-1	No.	0-3-2	No	0.0-4	N	0.1	No	o.1-1 <sup>°</sup>	No	.1-2*	No	.1-3	No	1-4	No.	1-5	No	).1-6
C	s-134 (Approx. 2 years)	29	<5/25>	ND		0.61	<3/2>	0.61	[10/13]	0.64	<4/6>	0.82	<1/14>	0.70	<6/29>	13	[ 8/29 ]	1.9	[7/8]	11,000	[7/9]	10	[9/2]	1.5	[ 7/8 ]	310	[ 8/5 ]	9,000	<7/21>
Cs	s-137 (Approx.30 years)	78	<5/25>	ND		1.5	<3/2>	2.2	<1/12>	1.1	<4/6>	2.1	<1/14>	1.6	<6/29>	31	[ 8/29 ]	3.6	[7/8]	22,000	[7/9]	24	[9/2]	3.6	[7/8]	650	[ 8/5 ]	25,000	<7/21>
	Ru-106 (Approx. 370 days)	ND		ND		ND		ND		ND		ND		ND		26	[5/24]	7.9	[7/8]	160	[8/15]	17	[7/22] [8/8]	3.1	[ 8/8 ]	ND		ND	
The	Mn-54 (Approx. 310 days)	ND		ND		ND		ND		ND		0.64	<2/20>	ND		ND		1.0	[7/5]	62	[7/5]	ND		ND		ND		320	<2/13> <2/17>
other y	Co-60 (Approx. 5 years)	ND		ND		ND		ND		ND		ND		ND		0.50	[7/19]	ND		3.1	[7/8]	ND		ND		ND		830	<2/20>
	Sb-125 (Approx. 3 years)	ND		ND		ND		ND		ND		ND		ND		1.7	[7/11]	ND		250	[7/15]	1.4	(7/12) (8/26)	ND		12	[ 8/8 ]	34	<5/19>
	Gross β	300	[8/29] <5/18>	21	[ 12/7 ]	24	<6/22>	87	[10/13]	ND		67 <sup>*1</sup>	[ 12/11 ]	44	<6/22>	1,900	[5/24]	4,400	[7/8]	9,300,000	(7/8)	160,000	(8/12) (8/15)	380	[ 8/19 ]	56,000	[ 8/5 ]	1,200,000	) <7/21>
ŀ	H-3 (Approx. 12 years)	45,000	( 8/29 )	18,000	[ 12/7 ]	74,000	[12/15] <1/19>	6,800	<2/16>	ND		76,000	<2/6>	56,000	<2/23>	500,000	(5/24) (6/7)	630,000	[7/8]	430,000	[9/16]	290,000	[7/12]	98,000	[7/11]	72,000	(8/15)	*2 110,000	<2/6>
s	r-90(Approx. 29 years)	140	[8/8]	7.9	[12/7]	2.6	[ 11/10 ]	0.73	[9/2]	1.5	[ 11/20 ]	2.3	[ 12/6 ]	ND(0.83)	[ 10/27 ]	1.300	[8/22]	2.300	[6/28]	5.000.000	) [7/5]	130.000	[8/8]	200	[7/8]	5.100	[8/22]	-	
														. ,															Unit: Bg/I
		Groun observa No	ndwater ation hole p.1-8	Grou observa No	ndwater ation hole 5.1-9	Grour observa No.	ndwater ation hole 1-10	Groun observa No.	dwater tion hole 1-11	Grour observa No.	idwater ition hole 1-12	Grour observa No	ndwater ation hole .1-13	Grour observa No.	ndwater ation hole .1-14	Groun observa No.	idwater ition hole 1-15	Grou observ No	ndwater ation hole .1-16	Grour observa No	ndwater ation hole 1-17	Groun pumped the we (betwee an	ndwater d up from ell point en Unit 1 d 2)	Groun observa N	dwater tion hole 5.2	Groun observa No.	dwater tion hole 2-1 <sup>*</sup>	Grour observa No	ndwater ation hole 5.2-2
C	s-134 (Approx. 2 years)	47	[ 11/25 ]	I 170	[9/3]	-		1.1	<1/13>	74	[ 10/21 ]	37,000	<2/13>	88	2 <2/27>	ND *1		3.1	[12/13]	1.4	<7/7>	110	[9/23]	0.88	<2/26>	0.66	[9/1]	15	<2/12>
Cs	s-137 (Approx.30 years)	110	[ 11/25 ]	380	[9/3]	-		3.4	<4/28>	170	[ 10/21 ]	93,000	<2/13>	230 *	2 <2/27>	0.88	<7/10>	6.5	<6/26>	2.8	<4/28>	250	[9/23]	2.5	<2/26>	1.1	[8/29] [9/1]	38	<2/12>
	Ru-106 (Approx. 370 days)	ND		ND		-		ND		5.4	[ 10/28 ]	ND		ND		ND		9.2	[10/28]	5.5	<4/21> <5/1>	25	[9/2]	ND		ND		ND	
The	Mn-54 (Approx. 310 days)	12	<2/3>	ND		-		ND		ND		ND		0.65	<7/3> <7/14>	ND		ND		ND		8.5	<4/28>	ND		ND		ND	
other y	Co-60 (Approx. 5 years)	1.3	<2/3>	ND		-		ND		0.51	[ 10/24 ]	ND		0.44	<5/29>	ND		0.9	[ 11/7 ]	0.61	[11/25]	0.61	<6/9>	ND		ND		ND	
	Sb-125 (Approx. 3 years)	ND		ND		-		ND		61	[ 10/21 ]	ND		ND		ND		24	<6/16>	2.1	[ 11/25 ]	ND		ND		ND		ND	
	Gross β	59,000	<2/3>	2,100*2	2 (11/17)	78 *2	<1/27>	2,300	[12/26]	1,100	<5/5>	260,000	<2/12> <2/13>	9,300	<7/14>	110	<7/10>	3,100,00	<1/20> 0 <1/30> <2/3>	99,000	<6/30>	1,900,000	) [9/23]	1,700	[ 7/8 ]	380	[7/29]	600	<4/16>
ŀ	H-3 (Approx. 12 years)	33,000	<6/2>	860 *	2 [11/14]	270,000	<1/27>	85,000	[9/13]	440,000	[ 10/31 ]	88,000	<2/12>	23,000	<2/13>	74,000	<7/10>	43,000	[9/26]	32,000	<1/20>	460,000	[8/19]	1,000	<2/23>	440	[ 8/26 ]	660	<1/8>
S	r-90(Approx. 29 years)	20,000	[12/9]	300	[ 10/3 ]	-		18	[10/21]	290	[10/21]	Under analysis		98	[ 12/9 ]	Under analysis		1,400,00	0 [12/9]	9.5	[ 12/9 ]	-		54	[ 5/31 ]	5.9	[7/25]	320	[ 12/25 ]
		r –				1		1						Group	dwator	1		1		1				1			Unit: Bq/L	1	
		Groun observa No	ndwater ation hole 5.2-3	Grour observa No	ndwater ation hole 0.2-5	Grour observa No	ndwater ation hole 9.2-6	Groun observa No	dwater tion hole .2-7	Groun observa No	idwater ition hole .2-8	Grour observa No	ndwater ation hole 9.2-9	pumped the we (betwee an	d up from ell point en Unit 2 d 3)	Groun observa No	idwater ition hole o.3	Grou observ No	ndwater ation hole 5.3-1	Grour observa No	ndwater ation hole 5.3-2	Grour observa No	ndwater ation hole 9.3-3	Groun observa No	dwater tion hole .3-4	Groun observa No	dwater tion hole .3-5		
C	s-134 (Approx. 2 years)	2.2	<2/26>	41	<5/7>	17	<3/11>	3.5	<2/23>	1.3	<7/20>	ND		2.0	<4/23>	3.5	[7/25]	1.2	[7/25] [8/8]	18	<7/9>	180	<7/2>	5.1	<7/23>	86	<7/16>		
Cs	s-137 (Approx.30 years)	5.5	<2/26>	110	<5/7>	50	<3/11>	9.0	<2/23>	3.4 *2	2 <7/20>	0.58	<2/11>	4.7	<4/23>	5.9	[ 8/8 ]	2.6	[8/1]	54	<7/9>	500	<7/2>	14	<7/23>	250	<7/16>		
	Ru-106 (Approx. 370 days)	ND		ND		ND		ND		ND *2	2	6.5	<2/11>	ND		ND		ND		ND		ND		ND		-			
The	Mn-54 (Approx. 310 days)	0.29	[ 12/6 ]	0.95	<6/4>	ND		ND		ND		ND		ND		ND		ND		ND		ND		0.54	[ 10/30 ]	-			
other y	Co-60 (Approx. 5 years)	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-			
	Sb-125 (Approx. 3 years)	ND		74	<5/7>	ND		ND		ND		ND		ND		1.6	<1/1>	ND		ND		ND		ND		-			
	Gross ß	1,500	[12/6] <1/8>	150,000	<2/12>	3,200	(12/5)	1,300	<6/20>	5,800 <sup>*2</sup>	<7/23>	1,700	<2/7>	240,000	[12/12]	1,400	[7/11]	180	2 [8/1]	3,000	<7/23>	8900	<7/2>	35	<7/23>	510	<7/16>		
ŀ	H-3 (Approx. 12 years)	1,700	[ 12/6 ]	7,900	<4/9>	1,200	[11/24]	1,100	<1/19>	1,700 <sup>*2</sup>	<4/b>	13,000	<2//><2/11>	7,100	<7/17>	3,200	12/12	460	[8/1]	3,700	<7/9>	8,000	<5/7>	170	[9/18]	170	<1/8>		
S	r-90(Approx. 29 years)	1,200	[ 12/6 ]	analysis		analysis		ND(1.4)	[11/21]	analysis		analysis		-		8.3	12/12	4.4	[7/23]	analysis		-		ND		-			

Since some samples are still under analysis, the highest dose of the Strontium-90 is among those previously announced.

\*1 Analysis result of pumped water. \*2 The results are for a reference, since the water was highly turbid. ( $\gamma$  and Gross  $\beta$  were measured after filtration.)

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

\* Date of sampling is provided in parentheses. (): 2013, <>: 2014 \* "\*" is provided next to the name of the holes where the sampling could not be performed due to the chemical injection of ground improvement.

### <Reference> The Highest Dose Until the Previous Measurement\* (Seawater)

	1F, North discha	side of Unit 5,6 rge channel	1F, In fr water in	ont of Unit 6 take channel	1F, In fror draf	nt of shallow 't quay	1F, North s water int (north s Seawa	side of Unit 1-4 ake channel side of East all Break)	1F, In fro discharge front of in	ont of Unit 1 e channel (in mpermeable wall)	1F, Betwe intake cha and Unit la	een the water annel of Unit 1 it 2 (surface ayer)	1F, Betwe intake cha and Unit 2	en the water nnel of Unit 1 (lower layer)	1F, In fro discharge front of in v	ont of Unit 2 e channel (in npermeable vall)	1F, Betwe intake cha and	een the water nnel of Unit 2 Unit 3	1F, Betwee intake char and	en the water nnel of Unit 3 Unit 4	1F, Unit (Inside the	4 Screen Silt Fence)	1F, South s 4 water int (In front of w	side of Unit 1- take channel impermeable vall)
Cs-134(Approx. 2 years)	1.8	[6/21]	2.8	[ 12/2 ]	5.3	[ 8/5 ]	32	[ 10/11 ]	12	<6/23>	87	[ 10/10 ]	93	[ 10/10 ]	7.9	<6/23>	52	[ 12/21 ]	37	<5/12>	62	(9/16)	15	<4/14> <5/19>
Cs-137(Approx.30 years)	4.5	<3/17>	5.8	[ 12/2 ]	8.6	[ 8/5 ]	73	[ 10/11 ]	33	<5/12>	200	[ 10/10 ]	200	[ 10/10 ]	27	<6/23>	110	[10/11] [12/21]	98	<5/12>	140	[9/16]	45	<5/19>
Gross β	17	<1/6>	46	[ 8/19 ]	40	(7/3)	320	[ 8/12 ]	140	<5/5> <7/14>	1,900	<5/20>	1,500	<6/10>	140	<6/23>	1,000	<6/2>	660	<6/9>	610	<6/23>	380	<3/10>
H-3 (Approx. 12 years)	8.7	<5/12>	24	(8/19)	340	[ 6/26 ]	510	(9/2)	260	<7/14>	4,200	<5/27>	3,900	<6/10>	300	<6/23>	2,600	<6/2>	2,500	<6/23>	2,100	<6/23>	720	<6/16>
Sr-90 (Approx. 29 years)	4.7	[ 6/26 ]	-		7.2	[ 6/26 ]	220	( 8/19 )	-		480	[ 8/22 ]	290	[ 10/20 ]	-		340	[ 10/14 ]	190	(9/23)	140	[6/21]	-	

North side of the north Northeast side of the 1F. Around the south East side of the south Southeast side of the South side of the south 1F, Port entrance 1F, East side in the port 1F, West side in the port 1F, North side in the port 1F, South side in the port discharge channel north breakwater breakwater breakwater port entrance breakwater Cs-134(Approx. 2 years) 1.8 <6/9> 3.3 [ 12/24 ] 3.3 [ 10/17 ] 4.4 [ 12/24 ] 5.0 [ 12/2 ] 3.5 [ 10/17 ] ND ND ND ND ND Cs-137(Approx.30 years) 4.9 [10/17] 10 [ 12/24 ] ND ND [ 10/18 ] ND ND <6/9> 7.3 [10/11] 9.0 8.4 [12/2] 7.8 [ 10/17 ] 1.6 Gross ß 16 <6/9> 69 [8/19] 74 [8/19] 60 [7/4] 69 [8/19] 79 [8/19] ND ND ND ND ND H-3 (Approx. 12 years) 5.6 <5/19> 68 [8/19] 67 [8/19] 59 [ 8/19 ] 52 [8/19] 60 [ 8/19 ] 4.7 [8/14] 1.7 <4/23> 6.4 [ 10/8 ] 1.8 <5/29> <4/23> 2.8 Sr-90 (Approx. 29 years) 0.29 [6/26] 49 [8/19] -

\* The highest result announced in "Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection" or the other handouts is provided.

As for "1F, North side of Unit 1-4 water intake channel", the data is obtained since January 14, 2013. For the other locations, the data is obtained since June 14.

Since some samples are still under analysis, the highest dose of the Strontium-90 is among those previously announced.

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

\* Date of sampling is provided in parentheses. ( ): 2013, < >: 2014

\* "-" indicates that the measurement was out of range.

[Reference	e] Standard values				Unit: Bq/L
		Cs-134	Cs-137	H-3	Sr-90
	Density Limit Specified by the Rule for the Installation, Operation, etc. of Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2)	60	90	60,000	30
	WHO Guidelines for drinking-water quality	10	10	10,000	10

Unit: Bq/L