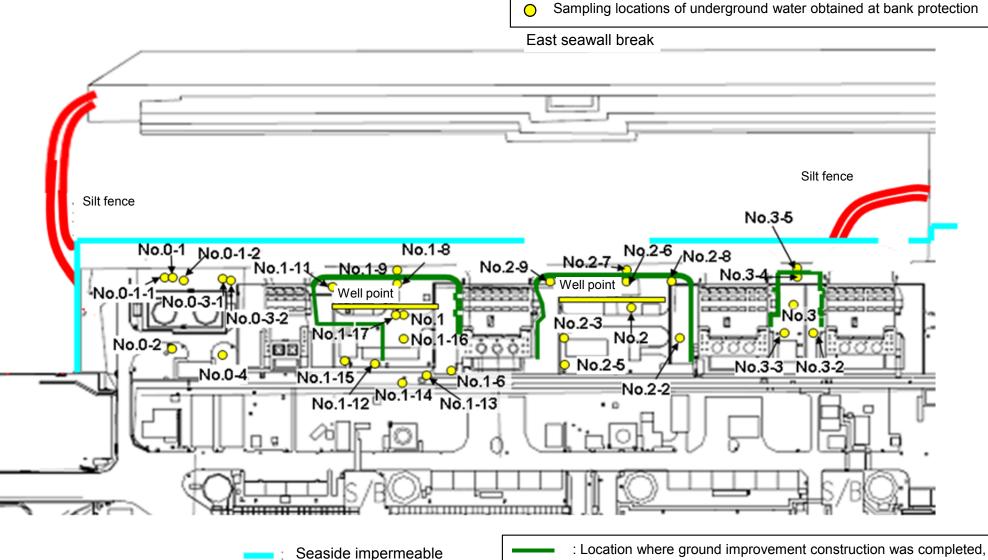
Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Underground Water Obtained at Bank Protection)



or being implemented (as of April 18, 2014)

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (1/2) Underground Water Obtained at Bank Protection

															Unit: Bq/	L (exclude chlorid
		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	/	/	/	/	1 /	/	Jun 9, 2014	Jun 9, 2014	Jun 16, 2014	Jun 15, 2014	Jun 9, 2014	Jun 9, 2014	Jun 9, 2014	Jun 9, 2014	Jun 9, 2014
	Time of sampling		/		/	/	/	10:23 AM	10:15 AM	10:27 AM	6:15 AM	10:00 AM	9:21 AM	9:33 AM	9:40 AM	9:40 AM
	Chloride (unit: ppm)		/		/	/	/	I	Ι	-	60	-	-	-	-	-
Cs	-134 (Approx. 2 years)		/			/	/	ND(0.40)	6,300	26	7.1	0.68	5.9	19	2.4	ND(0.44)
Cs	-137 (Approx.30 years)		/	/			/	ND(0.49)	17,000	74	14	1.7	17	50	5.6	0.52
	Mn-54 (Approx. 310 days)							ND	100	1.8	ND	ND	ND	0.4	ND	ND
The	Co-60 (Approx. 5 years)							ND	390	ND	ND	ND	ND	ND	ND	0.50
other y	Sb-125 (Approx. 3 years)		/					ND	ND	ND	ND	ND	ND	ND	11	ND
	Gross β							140	750,000	21,000	29	85	540	4,800	890,000	32,000
н	-3 (Approx. 12 years)	/	/	/	/	/	/	140,000	5,700	18,000	ND(120)	9,500	47,000	15,000	9,000	12,000
Sr-	90 (Approx. 29 years)	/	/	/	/	/	/	120	620,000	18000※1	3.9	67 * 1	130	4,100 * 1	820,000	29,000 * 1
		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	/	/	/	/		/	/	/	/	/	/	/	/		
	Time of sampling		/	/	/		/	/		/	/	/	/	/		
	Chloride (unit: ppm)		/					/		/						
Cs	-134 (Approx. 2 years)		/						/							
Cs	-137 (Approx.30 years)															
	Mn-54 (Approx. 310 days)								/			/		/		
The	Mn-54 (Approx. 310 days) Co-60 (Approx. 5 years)															
The other γ																
	Co-60 (Approx. 5 years)															
	Co-60 (Approx. 5 years)															
other y	Co-60 (Approx. 5 years) Sb-125 (Approx. 3 years)															

* Data announced this time is provided in a thick-frame. The other data was announced on June 10, 13, 16, 17, 18, and 20.

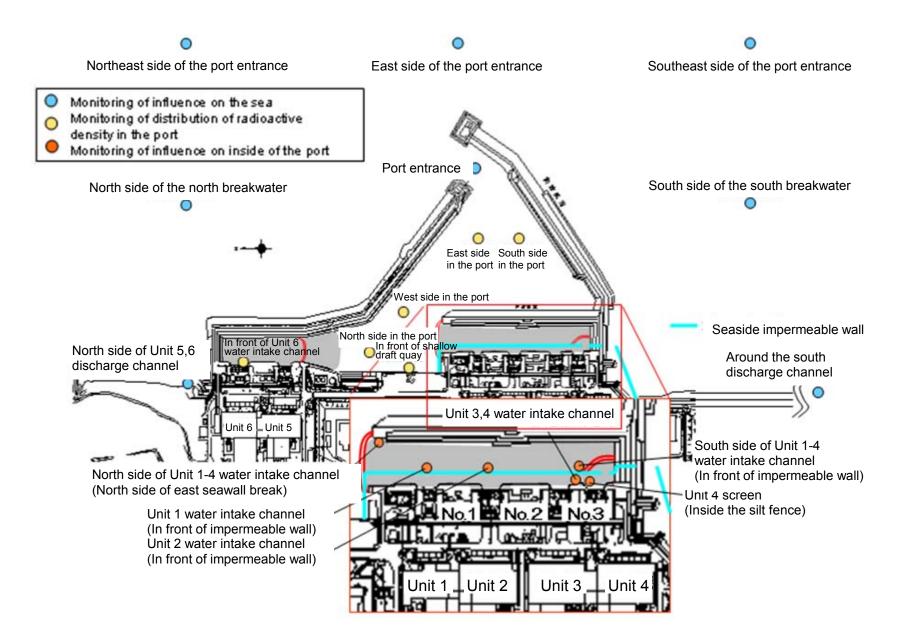
* "ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses, except "the other γ "

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

×1 In the results on June 10 and 13, 2014, "Under analysis" were shown of June 9 sampled, they are actually June 16 sampled.

* 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.

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 (2/2) 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, In front of Unit 1 discharge channel (in front	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, North 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	Jun 9, 2014	/	Jun 9, 2014	Jun 9, 2014		/	Jun 9, 2014	Jun 9, 2014	/	Jun 23, 2014		
Time of sampling	6:33 AM		6:17 AM	6:47 AM			6:32 AM	6:41 AM		5:45 AM		
Cs-134(Approx. 2 years)	ND(0.74)	/	ND(3.1)	ND(2.2)			19	16		ND(0.56)	60	10
Cs-137(Approx.30 years)	ND(0.71)	/	ND(2.3)	2.7			45	36		ND(0.58)	90	10
Gross β	12		ND(18)	ND(18)			660	410		9.7		
H-3 (Approx. 12 years)	ND(1.6)		2.3	ND(110)			1,800	1,200		ND(1.8)	60,000	10,000
Sr-90 (Approx. 29 years)	0.050	/	ND(0.77)	2.4	/	/	660 * 1	390 * 1	/	ND(0.0095)	30	10

												Unit: Bq/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	Jun 9, 2014	/	/	/	/	/	/	/	/	/		
Time of sampling	8:53 AM											
Cs-134(Approx. 2 years)	ND(1.3)										60	10
Cs-137(Approx.30 years)	ND(1.2)										90	10
Gross β	ND(16)											
H-3 (Approx. 12 years)	2.0										60,000	10,000
Sr-90 (Approx. 29 years)	ND(0.12)	V	V	V	/	V	/	V	V	/	30	10

* Data announced this time is provided in a thick-frame. The other data was announced on June 10, 13, 17, 24, and 27.

The data of Sr-90 of "1F, discharge channel of Unit 5 and 6" and "1F, Around the south discharge channel" in the broken-line frame was announced on July 25, in "Nuclides Analysis Result of the Sub-drain of Fukushima Daiichi NPS".

* "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/cm³ to Bq/L]).

* 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.

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

		observa	ndwater ation hole 0.0-1	observa	ndwater ation hole 0-1-1	observa	dwater tion hole)-1-2	Groun observa No.	tion hole	observa	dwater tion hole 0-3-1	observa	dwater tion hole)-3-2	Ground observat No.4	ion hole	observa	ndwater ation hole o.1	Ground observat No.	ion hole	Ground observat No.1	tion hole	Groun observat No.	tion hole	observa	ndwater ation hole .1-4 [*]		dwater tion hole 1-5°	Ground observat No.	ion hole
C	Cs-134 (Approx. 2 years)	29	<5/25>	ND		0.61	<3/2>	0.61	[10/13]	0.64	<4/6>	0.86	<9/8>	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]	12,000	<8/12> <9/22>
C	Cs-137 (Approx.30 years)	78	<5/25>	ND		1.5	<3/2>	2.2	<1/12>	1.1	<4/6>	2.3	<9/8>	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]	34,000	<8/12> <9/22>
	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 ^{*1}	[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]	1,400,000	<8/12>
	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>
:	Sr-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]	690,000	<5/12>
																													Unit: Bq/
		observa	ndwater ation hole 0.1-8	observa	ndwater ation hole 5.1-9	observa	dwater tion hole 1-10	Groun observa No.		observa	dwater tion hole 1-12	observa	dwater tion hole 1-13	Ground observat No.1	ion hole	observa	ndwater ation hole 1-15	Ground observat No.1	ion hole	Ground observat No.1	tion hole	pumped the we (betwee		observa	ndwater ation hole o.2	observa	dwater tion hole 2-1 [*]	Ground observat No.	ion hole
C	Cs-134 (Approx. 2 years)	47	[11/25]	170	[9/3]	-		1.1	<1/13>	74	[10/21]	37,000	<2/13>	88 *2	<2/27>	ND		30	<7/28>	1.4	<7/7>	110	[9/23]	0.88	<2/26>	0.66	[9/1]	15	<2/12>
C	Cs-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>	86	<7/28>	2.8	<4/28> <9/8>	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		2.1	<9/8>	ND		11	<8/25>	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>		[11/17]	78 *2	<1/27>	2,300	[12/26]	1,100	<5/5>	260,000	<2/12> <2/13>	28,000	<9/22>	110	<7/10>	3,100,000	<1/20> <1/30> <2/3>	840,000	<9/22>	1,900,000	[9/23]	1,700	[7/8]	380	[7/29]	600	<4/16>
	H-3 (Approx. 12 years)	33,000	<6/2>	860 *	2 [11/14]	270,000 ^{*2}	<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>
:	Sr-90(Approx. 29 years)	35,000	<2/17>	300	[10/3]	-		22	<1/9>	290	[10/21]	160,000	<2/12>	2,200	<5/12>	Under	analysis	2,700,000	<2/13>	5,600	<5/12>	-		54	[5/31]	5.9	[7/25]	320	[12/25]
						1		1				1		Ground		1		1		1		1		1			Unit: Bq/L		
		observa	ndwater ation hole 5.2-3	observa	ndwater ation hole 9.2-5	observa	dwater tion hole .2-6	Groun observa No.	tion hole		dwater tion hole .2-8	observa	dwater tion hole .2-9	pumped the wel (betweet and	up from Il point n Unit 2	observa	ndwater ation hole o.3	Ground observat No.3	ion hole	Ground observat No.	tion hole	Ground observat No.	tion hole	observa	ndwater ation hole 9.3-4	observa	dwater tion hole .3-5		
C	Cs-134 (Approx. 2 years)	2.2	<2/26>	41	<5/7>	17	<3/11>	3.5	<2/23>	1.3	<7/20>	ND		2.2	<9/7>	3.5	[7/25]	1.2	[7/25] [8/8]	23	<8/27>	180	<7/2>	5.1	<7/23>	100	<7/30>		
C	Cs-137 (Approx.30 years)	5.5	<2/26>	110	<5/7>	50	<3/11>	9.0	<2/23>	3.4	<7/20>	0.58 ^{*2}	<2/11>	5.7	<9/7>	5.9	[8/8]	2.6	[8/1]	68	<9/3>	500	<7/2>	16	<8/27>	310	<7/30>		
	Ru-106 (Approx. 370 days)	ND		ND		ND		ND		ND		6.5 ^{* 2}	<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 β	1,500	[12/6] <1/8>	150,000	<2/12>	3,200	[12/5]	1,300	<6/20>	5,800	<7/23>	1,700	<2/7>	240,000	[12/12]	1,400	[7/11]	180	[8/1]	3,100	<8/20> <8/28>	8900	<7/2>	46	<8/13>	510	<7/16>		
	H-3 (Approx. 12 years)	1,700	[12/6]	7,900	<4/9>	1,900	<8/10>	1,100	<1/19>	1,700	<4/6> <8/6> <8/13>	* 2 13,000	<2/7> <2/11>	8,900	<9/14>	3,200	[Dec. 12, 2012]	460	[8/1]	3,700	<7/9>	8,000	<5/7>	170	[9/18]	170	<1/8>		
:	Sr-90(Approx. 29 years)	1,200	[12/6]	34	,000	Under	analysis	ND(1.4)	[11/21]	3,900	<3/30>	1,200 ^{*2}	<2/11>	-		8.3	[Dec. 12, 2012]	4.4	[7/23]	2000	<4/18>	3,600	<4/30>	ND		200	<5/28>		

Since some samples are still under analysis, the highest concentration 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. (γ and Gross β 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.

Note) As of No. 1-9, 2-5, and 3-5, γ was not measured because they are samlpled by sampler. Gross β were measured after filtation for references.

<Reference> The Highest concentration Until the Previous Measurement* (Seawater)

																								Unit: Bq/L
		side of Unit arge channel		ont of Unit 6 ake channel		it of shallow t quay	water inta (north si	de of Unit 1-4 ike channel de of East ill Break)	channel	discharge (in front of eable wall)	intake chan and Unit	en the water nels of Unit 1 2 (surface yer)	intake chan	en the water nels of Unit 1 (lower layer)	channel	2 discharge (in front of eable wall)	intake chan	en the water nnels of Unit 2 I Unit 3	intake chan	en the water nels of Unit 3 Unit 4		4 Screen Silt Fence)	4 water int (in front of	ide of Unit 1- ake channel impermeable rall)
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]	12	<9/8>	52	[12/21]	50	<9/22>	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]	40	<9/8>	110	[10/11] [12/21]	150	<9/22>	140	[9/16] <9/22>	45	<5/19>
Gross β	17	<1/6>	46	[8/19]	40	[7/3]	320	[8/12]	140	<5/5> <7/14> <8/18> <9/1>	1,900	<5/20>	1,500	<6/10>	160	<8/18>	1,000	<6/2>	660	<6/9>	680	<9/22>	380	<3/10>
H-3 (Approx. 12 years)	8.7	<5/12>	24	[8/19]	340	[6/26]	600	[8/18]	460	<8/18>	4,200	<5/27>	3,900	<6/10>	350	<8/18>	2,600	<6/2>	2,500	<6/23>	2,200	<7/21>	810	<8/4>
Sr-90 (Approx. 29 years)	4.7	[6/26]	-		7.2	[6/26]	220	[8/19]	-		1,400	<5/15>	820	<5/15>	-		520	<5/12>	410	<5/12>	250	<5/12>	-	

Unit: Bq/L

		d the south e channel	1F, Poi	t entrance	1F, East s	ide in the port	1F, West si	de in the port	1F, North s	ide in the port		h side in the port		of the north kwater		side of the ntrance		e of the port rance		side of of the ntrance		of the south kwater
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	<6/9>	7.3	[10/11]	9.0	[10/17]	10	[12/24]	8.4	[12/2]	7.8	[10/17]	ND		ND		1.6	[10/18]	ND		ND	
Gross ß	16	<6/9> <8/4>	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>	2.8	<4/23>
Sr-90 (Approx. 29 years)	0.29	[6/26]	49	[8/19]	-		_		-		I		_		_		-		_		_	

* The highest result announced in "Detailed Analysis Results in the Port of Fukushima Dailchi 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 after January 13, 2013. For the other locations, the data is obtained after June 13, 2013.

• Since some samples are still under analysis, the highest concentration 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] S	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 lensity 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