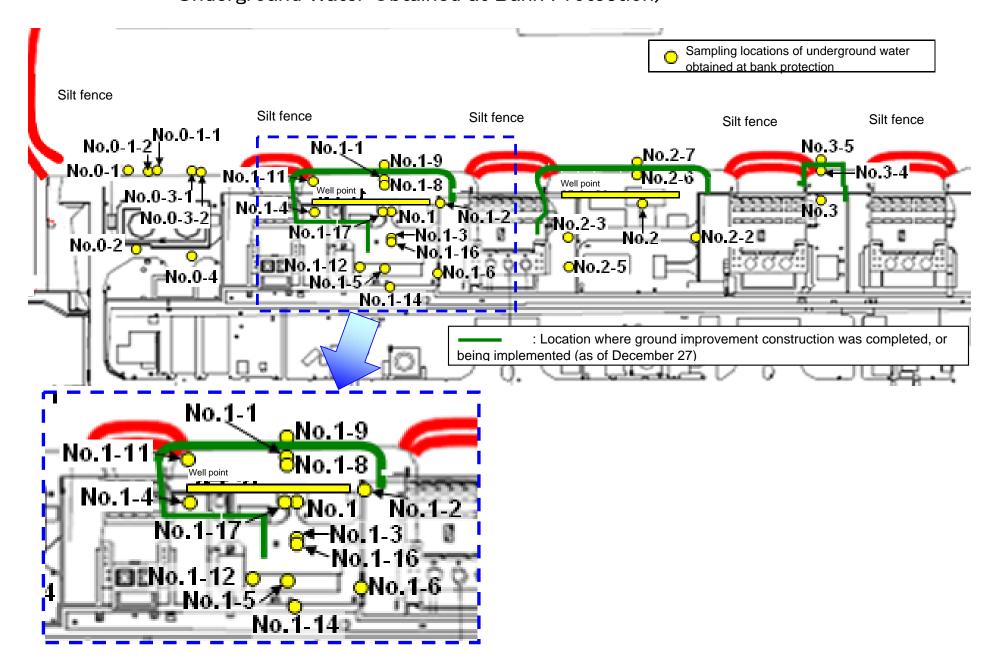
Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Underground Water Obtained at Bank Protection)



Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (1/12) Underground Water Obtained at Bank Protection

			er observation hole 0.1	Underground water observation hole No.1	Underground water observation hole No.1-1	Underground water observation hole No.2	Underground water observation hole No.3
	Date of sampling	Jun 14	, 2013	Jun 21, 2013	Jun 28, 2013	Jun 21, 2013	Jun 21, 2013
Т	ime of sampling	14:29	14:29	9:01	9:01 16:40		17:01
Cs-	134 (Approx. 2 years)	ND(0.37)	ND(0.37)	ND (0.36)	ND(0.41)	ND (0.32)	1.7
Cs-	137 (Approx.30 years)	ND(0.43)	0.51	0.53	ND(0.51)	ND (0.37)	2.9
	Mn-54 (Approx. 310 days)	ND	ND	ND	0.52	ND	ND
The other Y	Ru-106 (Approx. 370 days)	18	19	16	ND	ND	ND
	Gross a	ND(10)	ND(10)	_	_	_	_
	Gross β	1,200	1,300	1,500	3,000	53	ND(17)
F	-3 (Approx. 12 years)	450,000	440,000	430,000	430,000	560	1,600
Sr	90 (Approx. 29 years)	9 years) 1,100 1,100		Under analysis	Under analysis	Under analysis	Under analysis

Unit: Bq/L

* Data announced this time is provided in a thick-frame. The other data was announced in June.

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

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (2/12) Underground Water Obtained at Bank Protection

Unit: Bq/L

		Underground water observation hole No.1	Underground water observation hole No.1-2	Underground water observation hole No.1-3	Underground water observation hole No.1-4	Underground water observation hole No.1-5	Underground water observation hole No.2	Underground water observation hole No.2-1	Underground water observation hole No.3	Underground water observation hole No.3-1
	Date of sampling	Jul 25, 2013	Jul 5, 2013	Jul 12, 2013	Jul 8, 2013	Jul 31, 2013	/	Jul 25, 2013	/	Jul 23, 2013
-	Time of sampling	13:15	12:10	12:20	15:30	13:05	/	11:28	/	11:10
Cs-1	34 (Approx. 2 years)	ND(0.42)	99	ND(0.66)	1.5	21		ND(0.42)	/	1.1
Cs-1	37 (Approx.30 years)	ND(0.55)	210	1.4	3.6	44	/	0.69	/	2.2
	Mn-54 (Approx. 310 days)	ND	62	ND	ND	ND	/	ND		ND
The		ND	1.2	ND	ND	ND	/	ND	/	ND
other Y	Ru-106 (Approx. 370 days	12	95	16	ND	ND		ND		ND
	Sb-125 (Approx. 3 years)	ND	35	1.4	ND	ND		ND		ND
	Gross β	1,400	900,000	92,000	330	1,200		ND(17)		ND(19)
H-	3 (Approx. 12 years)	430,000	380,000	290,000	69,000	28,000	/	120		290
Sr-9	90 (Approx. 29 years)	1,100	Under analysis	Under analysis	Under analysis	910	/	Under analysis	/	Under analysis

* Data announced this time is provided in a thick-frame. The other data was announced in July and August.

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

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (3/12) Underground Water Obtained at Bank Protection

Unit: Bq/L

		Underground water observation hole No.0-1	Underground water observation hole No.1	Underground water observation hole No.1-2	Underground water observation hole No.1-3	Underground water observation hole No.1-4	Underground water observation hole No.1–5	Underground water observation hole No.1-8	Groundwater pumped up from the well point	Underground water observation hole No.2	Underground water observation hole No.2–1	Underground water observation hole No.3	Underground water observation hole No.3-1
	Date of sampling	Aug 8, 2013	Aug 22, 2013	Aug 8, 2013	Aug 8, 2013	Aug 8, 2013	Aug 22, 2013	Aug 20, 2013	/	/	/		/
	Time of sampling	14:15	10:58	13:38	12:18	11:00	12:00	9:40	/	/			/
Cs-	-134 (Approx. 2 years)	0.61	ND(0.57)	200	ND(0.55)	0.55	91	21	/	/	/		/
Cs-	-137 (Approx.30 years)	1.6	0.66	450	1.0	1.2	190	45	/		/		/
The	Ru-106 (Approx. 370 days)	ND	7.9	ND	17	3.1	ND	ND	/				/
other		ND	ND	170	ND	ND	ND	ND	/				/
Ŷ									/	/			/
	Gross β	210	1,500	880,000	150,000	170	6,200	1,100	/				/
H-	-3 (Approx. 12 years)	23,000	430,000	170,000	240,000	76,000	28,000	950		/		/	/
Sr-9	90 (Approx. 29 years)	Under analysis	1,300	Under analysis	Under analysis	Under analysis	5,100	610		/	/	/	/

* Data announced this time is provided in a thick-frame. The other data was announced in August.

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

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (4/12) Underground Water Obtained at Bank Protection

Unit: Bg/L (exclude chloride) Underground water Groundwater pumped observation hole in from the well not

		No.0-1		No.0-2	No.1	No.1-2	No.1-8	No.1-9	No.1-11	No.1-16	up from the well point
	Date of sampling		/	Sep 2, 2013	Sep 19, 2013	Sep 5, 2013	Sep 16, 2013	Sep 3, 2013	Sep 13, 2013	Sep 26, 2013	/
-	Time of sampling		/	9:51	10:02	13:40	10:00	10:20	10:35	11:30	/
Cs-	134 (Approx. 2 years)		/	ND(0.47)	ND(0.43)	82	31	170	ND(0.36)	ND(0.99)	/
Cs-	137 (Approx.30 years)	/	,	0.75	ND(0.57)	180	67	380	0.48	2.1	
The	Mn-54 (Approx. 310 days)	/		ND	ND	ND	0.76	ND	ND	ND	
other	Ru-106 (Approx. 370 days)	/		ND	7.0	ND	ND	ND	ND	ND	/
Ŷ	Sb-125 (Approx. 3 years)			ND	ND	ND	ND	ND	ND	ND	
	Gross β			ND(24)	770	500,000	2,100	470	43	400,000	/
H-	3 (Approx. 12 years)	/		ND(120)	330000	310000	1900	670	85000	43000	/
Sr-9	0 (Approx. 29 years)	/		0.73	Under analysis	Under analysis	1,300	170	17	Under analysis	/
				_							

		Underground water observation hole No.2	Underground water observation hole No.2-1	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.3	Underground water observation hole No.3-4
[Date of sampling	/	/	Sep 29, 2013	Sep 20, 2013		Sep 12, 2013
	Time of sampling	/	/	9:50	10:53	/	13:20
Cs-	134 (Approx. 2 years)	/	/	3.7	ND(0.39)		0.52
Cs-′	137 (Approx.30 years)	/	/	10	ND(0.45)	/	1.3
The	Mn-54 (Approx. 310 days)		/	0.77	ND		ND
other	Ru-106 (Approx. 370 days)			ND	ND		ND
Ŷ	Sb-125 (Approx. 3 years)			18	ND		ND
	Gross β			46000	ND(18)		ND(17)
H-	3 (Approx. 12 years)			1500	200		ND(110)
Sr-9	0 (Approx. 29 years)			_	Under analysis		ND(0.34)

* Data announced this time is provided in a thick-frame. The other data was announced in September and October.

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

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (5/12) Underground Water Obtained at Bank Protection

Unit: Bq/L (exclude chloride)

		Underground water observation hole No.0-1	Underground water observation hole No.0-2	Underground water observation hole No.1	Underground water observation hole No.1-2	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.1-16	Groundwater pumped up from the well point
	Date of sampling	/	/	Oct 14, 2013	Oct 7, 2013	Oct 14, 2013	Oct 3, 2013	Oct 14, 2013	Oct 21, 2013	Oct 14, 2013	/
	Time of sampling			13:05	12:06	9:30	6:15	9:57	11:22	12:43	/
C	Chloride (unit: ppm)			-	-	_	530	—	—	_	/
Cs-	134 (Approx. 2 years)	/		ND(0.39)	1400	24	9.5	0.92	74	ND(0.96)	/
Cs-1	37 (Approx.30 years)	/		0.74	2800	53	25	1.8	170	2.1	/
The	Mn-54 (Approx. 310 days)	/		ND	ND	0.67	ND	ND	ND	ND	
	Ru-106 (Approx. 370 days)	/		5.6	ND	ND	ND	ND	ND	ND	
Y	Sb-125 (Approx. 3 years)			ND	ND	ND	ND	ND	61	ND	
	Gross β			670	250,000	2,500	83	49	730	880,000	
H-:	3 (Approx. 12 years)		/	260,000	54,000	2,500	690	33,000	350,000	30,000	/
Sr-9	0 (Approx. 29 years)	/	/	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	/

		Underground water observation hole No.2	Underground water observation hole No.2-1	Underground water observation hole No.2-5	Underground water observation hole No.2-6	Underground water observation hole No.3	Underground water observation hole No.3-4
[Date of sampling	/	/	/	/	/	/
٦	Time of sampling	/	/	/	/	/	
Cs-1	34 (Approx. 2 years)	/		/	/	/	
Cs-13	37 (Approx.30 years)	/	/	/	/	/	
The		/	/	/	/	/	
other		/	/				
Y							
	Gross β						
H-3	(Approx. 12 years)			/	/	/	
Sr-90) (Approx. 29 years)						

* Data announced this time is provided in a thick-frame. The other data was announced in October.

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

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (6/12) Underground Water Obtained at Bank Protection

Unit: Bq/L (exclude chloride)

		Underground wate observation hole No.0-1	0	Underground water observation hole No.0-2	Underground water observation hole No.0-3-1	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	Underground water observation hole No.1-17
	Date of sampling		/ Nov 10, 2013		Nov 20, 2013	/	Nov 11, 2013	Nov 11, 2013	Nov 14, 2013	Nov 11, 2013	Nov 11, 2013	Nov 10, 2013	Nov 11, 2013	Nov 22, 2013
	Time of sampling	/	12:42		12:44		10:02	9:10	6:27	9:36	9:11	12:30	9:35	9:23
C	Chloride (unit: ppm)	/	—	/	-		—	—	350	—	—	—	—	—
Cs-	134 (Approx. 2 years)	/	ND(0.42)		ND(0.42)	/	ND(0.36)	31	3.4	0.75	9.0	0.84	ND(1.4)	ND(0.49)
Cs-1	137 (Approx.30 years)	/	ND(0.52)		0.86		0.66	69	8.8	2.0	21	2.0	2.0	ND(0.48)
	Mn-54 (Approx. 310 days)		ND		ND		ND	3.6	ND	ND	ND	ND	ND	ND
The other	Co-60 (Approx. 5 years)	/	ND		ND		ND	ND	ND	ND	ND	ND	0.53	0.41
γ	Ru-106 (Approx. 370 days)		ND		ND		ND	ND	ND	ND	ND	ND	ND	4.0
	Sb-125 (Approx. 3 years)	/	ND		ND		ND	ND	ND	ND	ND	ND	7.5	ND
	Gross β		21		ND(21)		440	11,000	76	42	160	33	650,000	44
H-:	3 (Approx. 12 years)	/	36,000	/	ND(120)	/	220,000	2,700	860	17,000	390,000	2,600	20,000	9,800
Sr-9	0 (Approx. 29 years)	/	Under analysis	/	Under analysis	/	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis

		Groundwater pumped up from the well point	Underground water observation hole No.2	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.3	Underground water observation hole No.3-4	Underground water observation hole No.3-5
	Date of sampling	/	/	/		Nov 21, 2013		/	/
	Time of sampling	/	/	/	/	10:35	/	/	/
С	hloride (unit: ppm)					730 **			/
Cs-1	34 (Approx. 2 years)		/	/	/	1.3	/	/	/
Cs-1	37 (Approx.30 years)		/	/	/	3.1	/	/	/
	Mn-54 (Approx. 310 days)	/		/		ND			/
The	Co-60 (Approx. 5 years)					ND			
other Y	Ru-106 (Approx. 370 days)					ND			/
	Sb-125 (Approx. 3 years)					ND			/
	Gross β		/			18			
H-3	3 (Approx. 12 years)	/	/	/	/	1,000	/	/	/
Sr-9	0 (Approx. 29 years)	/	/	/	/	Under analysis	/	V	/

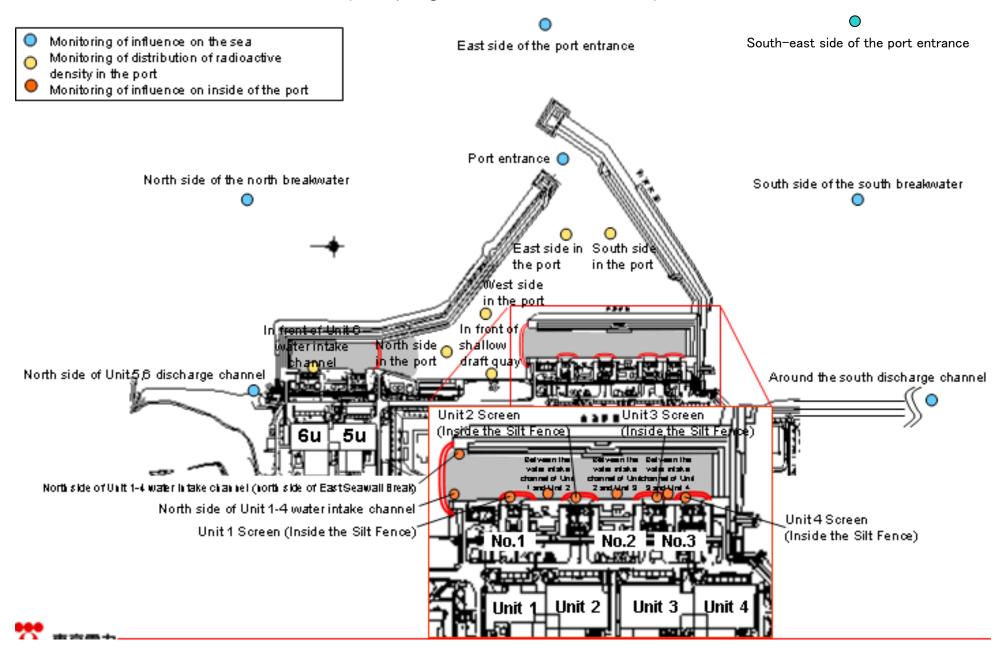
* Data announced this time is provided in a thick-frame. The other data was announced in November.

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

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

** The value was corrected from "0:00" to "730" as of January 16, 2014. We apologize for this error.

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 (7/12) Seawater

									Unit: Bq/L	U	Init: 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)	Density Limit Specified by the Reactor Regulation **	WHO Guidelines for drinking-water quality
Date of Sampling	Jun 26, 2013	/	Jun 26, 2013	Jun 21, 2013	Jun 27, 2013	Jun 21, 2013	Jun 21, 2013	Jun 26, 2013	Jun 21, 2013		
Time of sampling	11:25		6:06	6:18	9:50	6:23	11:00	16:55	6:29		
Cs-134(Approx. 2 years)	ND(1.9)		ND(1.8)	12	6.1	6.9	9.4	6.2	7.1	60	10
Cs-137(Approx.30 years)	3.3		2.3	28	13	15	19	9.3	14	90	10
Gross β	ND(22)		ND(18)	310	200	160	330	210	230		
H-3 (Approx. 12 years)	8.6		340	1100	180	480	910	360	290	60,000	10,000
Sr-90 (Approx. 29 years)	Under analysis		Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	30	10

								Unit: Bq/L
	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)	1F, Around the south discharge channel	1F, Port entrance	1F, East side in the port *1	1F, West side in the port *1
Date of Sampling	Jun 26, 2013	Jun 21, 2013	Jun 26, 2013	Jun 21, 2013	Jun 26, 2013	Jun 20, 2013	Jun 26, 2013	Jun 26, 2013
Time of sampling	6:51	6:33	6:47	6:37	11:15	13:18	14:22	14:25
Cs-134(Approx. 2 years)	8.8	64	9.9	31	ND(1.1)	ND (1.3)	ND(2.4)	ND(2.5)
Cs-137(Approx.30 years)	18	110	23	70	ND(1.3)	ND (1.2)	ND(2.4)	3.3
Gross β	220	270	230	250	ND(22)	15	33	43
H-3 (Approx. 12 years)	350	220	250	ND(210)	ND(2.9)	5.0	14	26
Sr-90 (Approx. 29 years)	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	-	-

* Data announced this time is provided in a thick-frame. The other data was announced in June and July.

* "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.

*1: Although it was stated "Under Analysis" for the Sr-90 results of the "1F, East side in the port" and "1F, West side in the port" taken on June 26, 2013, they have been corrected to "-" since they had not been measured.

** 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]).

Unit: Bq/L

Density Limit Specified by the Reactor Regulation **	WHO Guidelines for drinking-water quality
60	10
90	10
60,000	10,000
30	10

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (8/12) Seawater

	1F, North side of Unit 5,6 discharge 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, 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)	Density Limit Specified by the Reactor Regulation **	WHO Guidelines for drinking-water quality
Date of Sampling	Jul 22, 2013	/	Jul 22, 2013	Jul 23, 2013	Jul 22, 2013	Jul 22, 2013	Jul 23, 2013	Jul 23, 2013	Jul 22, 2013		
Time of sampling	5:50	/	5:25	6:23	6:14	5:38	6:33	6:33	5:45		
Cs-134(Approx. 2 years)	ND(1.4)		ND(1.9)	18	ND(1.8)	4.8	15	9.9	ND(1.9)	60	10
Cs-137(Approx.30 years)	ND(1.3)		ND(2.2)	40	ND(1.8)	8.4	27	19	ND(1.9)	90	10
Gross β	ND(21)		ND(21)	240	ND(21)	79	120	100	ND(21)		
H-3 (Approx. 12 years)	ND(3.2)		ND(120)	990	ND(120)	320	580	370	ND(120)	60,000	10,000
Sr-90 (Approx. 29 years)	Under analysis	/	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	30	10

	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)	1F, Around the south discharge channel	1F, Port entrance	1F, East side in the port	1F, West side in the port
Date of Sampling	Jul 22, 2013	Jul 22, 2013	Jul 22, 2013	Jul 22, 2013	Jul 22, 2013	Jul 22, 2013	/	/
Time of sampling	5:49	11:13	6:02	11:16	5:15	11:32		
Cs-134(Approx. 2 years)	ND(1.7)	31	ND(2.0)	12	ND(1.2)	ND(1.9)		
Cs-137(Approx.30 years)	ND(1.8)	63	ND(2.0)	26	ND(1.4)	ND(2.0)		
Gross β	ND(21)	120	ND(21)	49	ND(20)	ND(18)		
H-3 (Approx. 12 years)	ND(120)	ND(120)	ND(120)	ND(120)	ND(3.2)	ND(3.0)		
Sr-90 (Approx. 29 years)	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis		

Unit: Bq/L

Unit: Bq/L

Density Limit Specified by the Reactor Regulation **	WHO Guidelines for drinking-water quality
60	10
90	10
60,000	10,000
30	10

* Data announced this time is provided in a thick-frame. The other data was announced in June and July.

* "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/tb Bq/L]).

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (9/12) 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)	water intake channel	1F, Between the water intake channel of Unit 1 and Unit 2 (lower layer)	(Inside the Silt	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen (Inside the Silt Fence)	Density Limit Specified by the Reactor Regulation **	WHO Guidelines for drinking-water quality
Date of Sampling	Aug 19, 2013	/	Aug 19, 2013	Aug 22, 2013	Aug 19, 2013	Aug 19, 2013	Aug 22, 2013	Aug 22, 2013	Aug 19, 2013	Aug 19, 2013	Aug 19, 2013		
Time of sampling	6:10	/	5:53	6:09	6:43	6:09	6:31	6:31	6:17	6:21	6:28		
Cs-134(Approx. 2 years)	ND(1.4)	/	3.3	24	8.0	24	20	5.2	26	12	68	60	10
Cs-137(Approx.30 years)	ND(1.5)		7.4	51	19	41	39	7.9	52	30	140	90	10
Gross β	ND(18)	/	28	620	280	540	540	210	490	310	270		
H-3 (Approx. 12 years)	5.4		ND(120)	2,000	300	1,800	1,300	280	820	240	160	60,000	10,000
Sr-90 (Approx. 29 years)	Under analysis		5.7	620	220	430	480	160	330	180	100	30	10

Unit: Bq/L

	1F, Between the water intake channel of Unit 3 and Unit 4	1F, Unit 4 Screen		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		South side of the south breakwater		WHO Guidelines for drinking-water quality
Date of Sampling	Aug 19, 2013	Aug 19, 2013	Aug 19, 2013	Aug 19, 2013	/	/	/	/	/	/	/		
Time of sampling	6:32	6:37	5:20	7:22	/				/				
Cs-134(Approx. 2 years)	20	20	ND(1.4)	1.6	/		/	/		/		60	10
Cs-137(Approx.30 years)	43	49	ND(1.5)	4.7								90	10
Gross β	160	200	ND(18)	69									
H-3 (Approx. 12 years)	270	ND(120)	ND(3.0)	68								60,000	10,000
Sr-90 (Approx. 29 years)	120	94	Under analysis	49	/	/	/	/		/	/	30	10

* Data announced this time is provided in a thick-frame. The other data was announced in June and July.

* "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/tb Bq/L]).

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (10/12) Seawater

Unit: Bq/L

	1F, North side of Unit 5,6 discharge 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	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	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen (Inside the Silt Fence)	Density Limit Specified by the Reactor Regulation **	WHO Guidelines for drinking-water quality
Date of Sampling	Sep 23, 2013	/	Sep 23, 2013	Sep 22, 2013	Sep 23, 2013	Sep 23, 2013	Sep 22, 2013	Sep 22, 2013	Sep 23, 2013	Sep 23, 2013	Sep 23, 2013		
Time of sampling	5:58		6:00	6:09	6:38	6:10	6:18	6:18	6:15	6:18	6:25		
Cs-134(Approx. 2 years)	ND(0.88)		1.7	46	6.2	31	28	11	17	13	25	60	10
Cs-137(Approx.30 years	ND(1.1)		2.7	94	19	65	59	25	46	35	57	90	10
Gross β	ND(17)		21	810	110	440	480	200	350	320	220		
H-3 (Approx. 12 years)	ND(1.8)		ND(120)	3,000	230	1,400	1,500	470	1,300	670	290	60,000	10,000
Sr-90 (Approx. 29 years)	Under analysis		1.4	720	93	380	440	200	310	270	120	30	10

Unit: Bq/L

	1F, Between the water intake channel of Unit 3 and Unit 4	1F, Unit 4 Screen (Inside the Silt Fence)	· ·	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	East side of the port entrance	South side of the south breakwater		WHO Guidelines for drinking-water quality
Date of Sampling	Sep 23, 2013	Sep 23, 2013	Sep 23, 2013	Sep 24, 2013	/	/	/	/		/			
Time of sampling	6:31	6:30	5:20	9:37	/	/				/			
Cs-134(Approx. 2 years)	15	30	ND(1.2)	ND(1.2)	/							60	10
Cs-137(Approx.30 years	28	76	ND(1.4)	1.4	/							90	10
Gross ß	230	190	ND(17)	ND(15)									
H-3 (Approx. 12 years)	570	310	ND(1.8)	ND(1.8)								60,000	10,000
Sr-90 (Approx. 29 years	190	130	分析中	0.51	/	/	/	/	/	/	/	30	10

* Data announced this time is provided in a thick-frame. The other data was announced in October.

* "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 ³ to Bq/L]).

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (11/12) 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	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	Density Limit Specified by the Reactor Regulation **	WHO Guidelines for drinking-water quality
Date of Sampling	Oct 14, 2013	/	Oct 14, 2013	Oct 20, 2013	Oct 14, 2013	Oct 14, 2013	Oct 20, 2013	Oct 20, 2013	Oct 14, 2013	Oct 14, 2013	Oct 14, 2013		
Time of sampling	5:50	/	5:48	6:02	6:32	5:59	6:08	6:08	6:05	6:07	6:15		
Cs-134(Approx. 2 years)	ND(1.0)		2.7	36	13	47	20	15	50	32	23	60	10
Cs-137(Approx.30 years)	1.5		5.5	65	26	97	50	34	110	62	51	90	10
Gross β	ND(16)		22	590	120	620	570	330	520	370	120		
H-3 (Approx. 12 years)	2.4		ND(120)	1,600	ND(120)	1,500	1300***	490***	1,300	680	ND(120)	60,000	10,000
Sr-90 (Approx. 29 years)	Under analysis	/	Under analysis	480	68	480	470	290	430	340	23	30	10

Unit: Bq/L

	1F, Between the water intake channel of Unit 3 and Unit 4	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	East side of the port entrance	South side of the south breakwater		WHO Guidelines for drinking-water quality
Date of Sampling	Oct 14, 2013	Oct 14, 2013	Oct 14, 2013	Oct 21, 2013	/	/	/	/	/	/	/		
Time of sampling	6:25	6:23	5:10	10:16	/		/	/		/			
Cs-134(Approx. 2 years)	15	20	ND(1.0)	1.2								60	10
Cs-137(Approx.30 years)	32	53	ND(1.1)	2.6								90	10
Gross β	120	85	ND(17)	ND(15)									
H-3 (Approx. 12 years)	220	ND(120)	ND(1.8)	7.2								60,000	10,000
Sr-90 (Approx. 29 years)	89	22	Under analysis	2.7	/	/	/	/	/	/	/	30	10

* Data announced this time is provided in a thick-frame. The other data was announced in October.

* "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 ³ to Bq/L]).

***The value was corrected from "920" to "1,300", from "600" to "490" each as of January 16, 2014. We apologize for this error.

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (12/12) Seawater

Unit: Bq/L

	1F, North side of Unit 5,6 discharge channel	1F, In front 6 water ii chann	ntake	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	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)	Density Limit Specified by the Reactor Regulation **	WHO Guidelines for drinking-water quality
Date of Sampling	Nov 11, 2013			Nov 11, 2013	Nov 17, 2013	Nov 11, 2013	Nov 11, 2013	Nov 17, 2013	Nov 17, 2013	Nov 11, 2013	Nov 11, 2013	Nov 11, 2013		
Time of sampling	6:05		/	5:38	5:57	6:15	5:49	6:18	6:18	5:55	6:00	6:06		
Cs-134(Approx. 2 years)	ND(1.2)	/	/	2.6	25	9.0	12	18	16	23	9.9	17	60	10
Cs-137(Approx.30 years)	ND(1.2)			7.1	48	15	36	49	42	47	28	44	90	10
Gross β	ND(17)			29	400	72	420	330	210	370	200	86		
H-3 (Approx. 12 years)	ND(1.9)			8.3	1,100	170	1,400	880	520	1,400	430	120	60,000	10,000
Sr-90 (Approx. 29 years)	Under analysis			Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	30	10

Unit: Bq/L

	1F, Between the water intake channel of Unit 3 and Unit 4	1F, Unit 4 Screen (Inside the Silt Fence)		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	East side of the port entrance	South side of the south breakwater		WHO Guidelines for drinking-water quality
Date of Sampling	Nov 11, 2013	Nov 11, 2013	Nov 11, 2013	Nov 25, 2013	/	/	/	/	/	/	/		
Time of sampling	6:04	6:10	5:15	9:27	/	/	/	/		/			
Cs-134(Approx. 2 years)	11	20	ND(0.83)	ND(1.0)		/	/					60	10
Cs-137(Approx.30 years)	20	50	ND(1.3)	ND(0.90)								90	10
Gross β	150	97	ND(17)	ND(17)									
H-3 (Approx. 12 years)	280	150	ND(1.9)	ND(1.8)								60,000	10,000
Sr-90 (Approx. 29 years)	Under analysis	Under analysis	Under analysis	ND(0.19)	/	/	/	/	/	/		30	10

* Data announced this time is provided in a thick-frame. The other data was announced in November and December.

* "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 ³ to Bq/L]).

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

		-				-																				U	nit: Bd/l
			ndwater n hole No.0- 1	observation	ndwater n hole No.0- -1	observatio	ndwater n hole No.0- I-2		ndwater on hole No.0- 2	observatio	indwater on hole No.0- 3-1		er observation No.0-3-2		ndwater n hole No.0- 4	Ground		Groun observatior	dwater hole No.1- I [*]	Groun observation	dwater hole No.1- 2*	Groun observatior	dwater hole No.1- 3 [*]	Groun observation		Groun observation	idwater n hole No.1- 5 [°]
Cs-1	34 (Approx. 2 years)	7.6	[12/15]	ND		ND		0.61	[10/13]	0.44	[11/24]	0.41	[12/26]	ND		13	[8/29]	1.9	[7/8]	11,000	[7/9]	10	[9/2]	1.5	[7/8]	310	[8/5]
Cs-1	37 (Approx.30 years)	17	[12/15] [12/29]	0.58	[12/7]	0.51	[11/17]	2.2	<1/1 2 >	0.86	[11/20]	0.91	[12/26]	1.4	<1/1 2 >	31	[8/29]	3.6	[7/8]	22,000	[7/9]	24	[9/2]	3.6	[7/8]	650	[8/5]
	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	
The	Mn-54 (Approx. 310 days)	ND		ND		ND		ND		ND		0.40	<1/5>	ND		ND		1.0	[7/5]	62	[7/5]	ND		ND		ND	
other	Co-60 (Approx. 5 years)	ND		ND		ND		ND		ND		ND		ND		0.50	[7/19]	ND		3.1	[7/8]	ND		ND		ND	
	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]
	Gross β	300	[8/22]	21	[12/7]	21	[11/10]	87	[10/13]	ND		67 ^{*2}	[12/11]	29	[12/29]	1,900	[5/24]	4,400	[7/8]	900,000	[7/5] [7/9]	160,000	[8/12] [8/15]	380	[8/19]	56,000	[8/5]
H-3	(Approx. 12 years)	45,000	[8/29]	18,000	[12/7]	74,000	[12/15]	3,900	<1/5>	ND		70,000	[12/29]	36,000	<1/5>	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]
Sr-9	0(Approx. 29 years)	Under analysis		Under analysis		Under analysis		Under analysis	5	Under analysis		Under analysis		Under analysis		1,200	[6/7]	Under analysis		Under analysis		Under analysis		Under analysis		Under analysis	

																U	Init: Bq/L
		observation	ndwater n hole No.1- 8	Groun observatior	dwater 1 hole No.1- 9	observation	dwater n hole No.1- 1	observation	dwater n hole No.1- 2	observatio	idwater n hole No.1- I4		er observation No.1-16	observatio	ndwater n hole No.1- 17	up from the	ter pumped e well point Init 1 and 2)
Cs-13	34 (Approx. 2 years)	47	[11/25]	170	[9/3]	1.1	<1/13>	74	[10/21]	1.2	[11/14]	3.1 ^{*2}	[12/13]	1.2	[12/5]	110	[9/23]
Cs-13	37 (Approx.30 years)	110	[11/25]	380	[9/3]	2.8	<1/13>	170	[10/21]	2.3	[11/21]	3.4	[10/10]	0.66	[12/12]	250	[9/23]
	Ru-106 (Approx. 370 days	ND		ND		ND		5.4	[10/28]	ND		9.2	[10/28]	4.1	[12/12]	25	[9/2]
The	Mn-54 (Approx. 310 days)	9.7	[12/16]	ND		ND		ND		ND		ND		ND		0.83	[12/30]
other y	Co-60 (Approx. 5 years)	0.63	[12/23]	ND		ND		0.51	[10/24]	ND		0.9	[11/7]	0.61	[11/25]	ND	
	Sb-125 (Approx. 3 years)	ND		ND		ND		61	[10/21]	ND		11	[12/5]	2.1	[11/25]	ND	
	Gross β	39,000	<1/6>	2,100	[11/17]	2,300	[12/26]	730	[10/21]	360	<1/13>	2,400,000	<1/13>	130	[12/2] [12/23]	700,000	[9/23]
H-3	(Approx. 12 years)	12,000	<1/6>	860	[11/14]	85,000	[9/13]	440,000	[10/31]	11,000	[11/25]	43,000	[9/26]	30,000	<1/9>	460,000	[8/19]
Sr-90	Sr-90(Approx. 29 years)			Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		-	

																									Unit: Ba/L
			ndwater		ndwater		ndwater n hole No.2-		dwater		ndwater n hole No.2-		er observation		ndwater n hole No.2-		ter pumped e well point		ndwater	Ground			ndwater n hole No.3-		indwater
		observatio	n hole vNo.2	003014000	1	observatio	2	observation	3	0030110110	5 ^{*1}	hole	No.2-6	observation	7	(between L		observatio	on hole No.3	1	*	observatio	4	observatio	5
Cs-13	4 (Approx. 2 years)	0.50	[7/9]	0.66	[9/1]	12	<1/1 2 >	0.84	<1/5>	13	<1/8>	0.56	[10/30]	1.5	<1/1 2 >	1.1	[12/12]	3.5	[7/25]	1.2	[7/25] [8/8]	1.9	<1/8>	29	[12/18]
Cs-13	7 (Approx.30 years)	1.2	[7/11] [8/1]	1.1	[8/29] [9/1]	28	<1/1> <1/1 2 >	2.6	<1/5>	30	<1/8>	0.61	[10/13]	3.6	<1/1 2 >	2.4	[12/7]	5.9	[8/8]	2.6	[8/1]	4.3	[11/27]	74	[12/18]
	Ru-106 (Approx. 370 days)	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		-	
The	Mn-54 (Approx. 310 days)	ND		ND		ND		0.29	[12/6]	0.94	<1/8>	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		-	
	Sb-125 (Approx. 3 years)	ND		ND		ND		ND		26	[9/29]	ND		ND		ND		1.6	<1/1>	ND		ND		-	
	Gross β	1,700	[7/8]	380	[7/29]	530	[12/29]	1,500	[12/6]	46,000	[9/29]	3,200	[12/5]	270	[12/20]	240,000	[12/12]	1,400	[7/11]	180	[8/1]	ND		43	[12/18]
H-3	(Approx. 12 years)	870	[12/8]	440	[8/26]	660	<1/8>	1,700	[12/6]	6,300	[12/4]	1,200	[11/24] [11/27]	1,000	[11/21] [12/4]	5,100	[12/6]	3,200	〔2012/1 2/12〕	460	[8/1]	170	[9/18]	170	<1/8>
Sr-90	(Approx. 29 years)	54	[5/31]	Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		-		8.3	〔2012/1 2/12〕	Under analysis		Under analysis		-	

*1 The analysis result of No.2-5 obtained on September 29 is the reference value, since we could not sample groundwater by a regular procedure.

*2 Analysis result of pumped water.

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

* Date of sampling is provided in parentheses. []2013, $\langle \rangle$ 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.

Unit: Bq/L

<Reference> The Highest Dose Until the Previous Measurement* (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		1F, Between the water intake channel of Unit 2 and Unit 3		1F, Unit 3 Screen (Inside the Silt Fence)		wate channe	tween the r intake I of Unit 3 Unit 4
Cs-134(Approx. 2 years)	1.8	[6/21]	2.8	[12/2]	5.3	[8/5]	89	[10/10]	32	[10/11]	73	[10/10]	87	[10/10]	93	[10/10]	370	[10/9]	52	[12/21]	350	[7/15]	28	[9/16]
Cs-137(Approx.30 years)	3.3	[6/26]	5.8	[12/2]	8.6	[8/5]	190	[10/10]	73	[10/11]	170	[10/10]	200	[10/10]	200	[10/10]	830	[10/9]	110	[10/11] [12/21]	770	[7/15]	53	[12/16]
Gross β	17	<1/6>	46	[8/19]	40	[7/3]	1,400	[11/7]	320	[8/12]	740	[10/28]	1,200	[12/8]	450	[7/16]	1,700	[10/9]	480	[10/7]	1,000	[7/15]	390	[8/12]
H-3 (Approx. 12 years)	8.6	[6/26]	24	[8/19]	340	[6/26]	4,800	[11/7]	510	[9/2]	2,800	[10/28]	2,800	[12/8]	1,600	[9/1]	2,100	[10/28]	1,200	[10/7]	410	[9/2]	650	[8/12]
Sr-90 (Approx. 29 years)	5.8	[6/26]	_		7.4	[6/26]	Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis	

Unit: Ba/L

	1F, Unit 4 Screen (Inside the Silt Fence)		1F, Around the south discharge channel		1F, Port entrance		1F, East side in the port		e 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 south breakwater	Southeast side of the north breakwater	South side of the south breakwater
Cs-134(Approx. 2 years)	62	[9/16]	ND		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)	140	[9/16]	3.0	[7/15]	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 β	360	[10/7]	15	<1/13>	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)	400	[8/12] [10/7]	1.9	[11/25]	68	[8/19]	67	[8/19]	59	[8/19]	52	[8/19]	60	[8/19]	4.7 [8/14]	ND	6.4 [10/8]	ND	ND
Sr-90 (Approx. 29 years)	Under analysis		0.36	[6/26]	3.5	[6/20]	Under analysis		Under analysis		_		_		_	_	_	_	_

* 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

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

* Date of sampling is provided in parentheses. $[]2013, \langle \rangle 2014.$

[Reference] Standard values				Unit: Bq/L
	Cs-134	Cs-137	H-3	Sr-90
Density Limit Specified by the Rule for the Installation, Operation, etc. C Commercial Nuclear Power Reactors (the density limit in the water outside the surrounding monitored areas is provided in section 6 of Aocendix 21	60	90	60,000	30
WHO Guidelines for drinking-water quality	10	10	10,000	10