Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (1/4) 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.1-3	Underground water observation hole No.1-5	Underground water observation hole No.1-8	Underground water observation hole No.1-9	Underground water observation hole No.1-11	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.3-4
	Date of sampling	/	/	Sep 12, 2013	Sep 12, 2013	/	/	/	1	1	1	/	/	/	1
	Time of sampling		/	9:30 AM	9:58 AM	/			/			/	/		
	Chloride (unit: ppm)			-	-										
C	Cs-134 (Approx. 2 years)			ND(0.46)	110										
С	Cs-137 (Approx.30 years)			ND(0.58)	270										
	Ru-106 (Approx. 370 days)			6.5	ND										
The other y	,														
	ΑΙΙ β			1,000	430,000										
	H-3 (Approx. 12 years)		/	360,000	310,000	/						/			
S	Gr-90 (Approx. 29 years)		/	-	-	/	/	/	/	/	/	/	/	/	/

^{*} Data announced this time is provided in a thick-frame. The other data was announced on September 13.

^{* &}quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

^{* &}quot;-" indicates that the measurement was out of range.

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (2/4) 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.1-3*1	Underground water observation hole No.1-5	Underground water observation hole No.1-8	Underground water observation hole No.1-9	Underground water observation hole No.1-11	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.3-4
	Date of sampling	/	1 /	Sep 16, 2013	Sep 16, 2013		1	Sep 16, 2013	/	Sep 16, 2013	Sep 16, 2013	/	/	/	1
	Time of sampling			10:25 AM	10:54 AM	/		10:00 AM		9:35 AM	9:45 AM				
	Chloride (unit: ppm)			-	-			-		-	-				
C	Cs-134 (Approx. 2 years)			ND(0.57)	78			31		ND(0.40)	15				
С	Cs-137 (Approx.30 years)			ND(0.67)	180			67		ND(0.58)	32				
	Ru-106 (Approx. 370 days)			7.6	ND			ND		ND	12				
The other y	Mn-54 (Approx. 310 days)			ND	ND			0.76		ND	ND				
	ΑΙΙ β			940	430,000			2,100		42	450,000				
	H-3 (Approx. 12 years)			Under analysis	Under analysis	/	1/	Under analysis		Under analysis	Under analysis	/			
S	Gr-90 (Approx. 29 years)			-	-		/	Under analysis		-	-		/		

^{*1} The sampling could not be performed due to the chemical injection of the ground improvement.

^{* &}quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

^{* &}quot;-" indicates that the measurement was out of range.

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (3/4) 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	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen (Inside the Silt Fence)
Date of Sampling									/		
Time of sampling											
Cs-134(Approx. 2 years)											
Cs-137(Approx.30 years)											
ΑΙΙ β											
H-3 (Approx. 12 years)											
Sr-90 (Approx. 29 years)	/			/			/	/		/	

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	,	North side of the north breakwater	East side of the port entrance	South side of the south breakwater
Date of Sampling				Sep 9, 2013	Sep 9, 2013	Sep 9, 2013	Sep 9, 2013	Sep 9, 2013	Sep 11, 2013	Sep 11, 2013	Sep 11, 2013
Time of sampling				8:46 AM	8:54 AM	8:59 AM	9:01 AM	8:50 AM	9:16 AM	8:59 AM	9:06 AM
Cs-134(Approx. 2 years)				ND(1.2)	ND(2.1)	1.2	ND(1.3)	ND(0.81)	ND(0.70)	ND(0.80)	ND(0.74)
Cs-137(Approx.30 years)				ND(0.90)	1.3	2.8	1.1	1.1	ND(0.62)	ND(0.71)	ND(0.64)
ΑΙΙ β				ND(16)	ND(16)	ND(16)	ND(16)	ND(16)	ND(17)	ND(17)	ND(17)
H-3 (Approx. 12 years)				2.5	2.0	14	4.1	ND(1.6)	ND(1.9)	ND(1.9)	ND(1.9)
Sr-90 (Approx. 29 years)	/	/	/	-	-	-	-	-	-	-	-

^{*} Data announced this time is provided in a thick-frame. The other data was announced on September 10 and 13.

^{* &}quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

^{* &}quot;-" indicates that the measurement was out of range.

Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (4/4) 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	1F, Between the water intake channel of Unit 2 and Unit 3	1F, Unit 3 Screen (Inside the Silt Fence)
Date of Sampling	Sep 16, 2013	Sep 16, 2013	Sep 16, 2013	/	Sep 16, 2013	Sep 16, 2013			Sep 16, 2013	Sep 16, 2013	Sep 16, 2013
Time of sampling	5:55 AM	5:40 AM	5:51 AM		6:25 AM	6:00 AM			6:04 AM	6:07 AM	6:10 AM
Cs-134(Approx. 2 years)	ND(1.3)	ND(2.4)	ND(2.5)	/	6.9	21			26	14	190
Cs-137(Approx.30 years)	2.3	ND(2.7)	3.7		16	44			48	31	440
ΑΙΙ β	ND(15)	ND(19)	24		130	230			350	76	600
H-3 (Approx. 12 years)	Under analysis	Under analysis	Under analysis	/	Under analysis	Under analysis			Under analysis	Under analysis	Under analysis
Sr-90(Approx. 29 years)	Under analysis	Under analysis	Under analysis		Under analysis	Under analysis	/		Under analysis	Under analysis	Under analysis

Unit: Bq/L

	1F, Between the water intake channel of Unit 3 and Unit 4	Screen	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
Date of Sampling	Sep 16, 2013	Sep 16, 2013	Sep 16, 2013							/	
Time of sampling	6:15 AM	6:13 AM	5:20 AM								
Cs-134(Approx. 2 years)	28	62	ND(1.3)			/		/			
Cs-137(Approx.30 years)	50	140	ND(1.8)			/		/			
ΑΙΙ β	130	200	ND(19)								
H-3 (Approx. 12 years)	Under analysis	Under analysis	Under analysis								
Sr-90 (Approx. 29 years)	Under analysis	Under analysis	Under analysis			/		/			

^{* &}quot;ND" indicates that the measurement result is below the detection limit, and the detection limit of each nuclide is provided in parentheses.

^{* &}quot;-" indicates that the measurement was out of range.

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

Unit: Bq/L

		Groundwate observation he No.0-1		Groundwater observation hole No.1	Groundwater observation hole No.1-1	Groundwater observation hole No.1-2	Groundwater observation hole No.1-3	Groundwater observation hole No.1-4	Groundwater observation hole No.1-5	Groundwater observation hole No.1-8	Groundwater observation hole No.1-9	Groundwater observation hole No.1-11	Groundwater pumped up from the well point (notch tank)
	Cs-134 (Approx. 2 years)	1.7 (9/1	5) ND	13 [8/29]	1.9 [7/8]	11,000 [7/9]	10 [9/2]	1.5 (7/8)	310 [8/5]	30 [9/2]	170 [9/3]	ND	1.5 (8/19)
(Cs-137 (Approx.30 years)	4.4 (9/1	5) 0.93 (9/15)	31 [8/29]	3.6 (7/8)	22,000 [7/9]	24 [9/2]	3.6 [7/8]	650 (8/5)	63 [9/2]	380 [9/3]	0.48 [9/13]	3.4 [8/19]
	Ru-106 (Approx. 370 days)	ND	ND	26 [5/24]	7.9 (7/8)	160 (8/15)	17 (7/22) (8/8)	3.1 (8/8)	ND	ND	ND	ND	25 [9/2]
The	Mn-54 (Approx. 310 days)	ND	ND	ND	1.0 (7/5)	62 (7/5)	ND	ND	ND	0.52 (8/26)	ND	ND	ND
other	Co-60 (Approx. 5 years)	ND	ND	0.50 [7/19]	ND	3.1 (7/8)	ND	ND	ND	ND	ND	ND	ND
	Sb-125 (Approx. 3 years)	ND	ND	1.7 [7/11]	ND	250 [7/15]	1.4 (7/12) (8/26)	ND	12 (8/8)	ND	ND	ND	ND
	All β	300 (8/2	2) (1/19) (9/15)	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)	1,200 [8/26]	600 (9/8)	43 (9/13)	360,000 (9/2)
	H-3 (Approx. 12 years)	45,000 (8/2	9) ND	500,000 ^[5/24] (6/7)	630,000 (7/8)	400,000 [8/22]	290,000 (7/12)	98,000 (7/11)	72,000 [8/15]	1200 (9/9)	670 (9/3)	85000 (9/13)	460,000 (8/19)
	Sr-90(Approx. 29 years)	Under analysis	Under analysis	1,200 (6/7)	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	Under analysis	-

Unit: Bg/L

											Offic. DQ/L
		observa	dwater ition hole o.2	Ground observat No.	tion hole	observa	ndwater ation hole lo.3	Ground observat No.:	ion hole	observa	dwater tion hole 3-4
Cs	s-134 (Approx. 2 years)	0.50	[7/9]	0.66	[9/1]	3.5	[7/25]	1.2	(7/25) (8/8)	0.52	[9/12]
Cs	s-137 (Approx.30 years)	1.2	(7/11) (8/1)	1.1	(8/29) (9/1)	5.9	[8/8]	2.6	(8/1)	1.3	[9/12]
	Ru-106 (Approx. 370 days)	ND		ND		ND		ND		ND	
The	Mn-54 (Approx. 310 days)	ND		ND		ND		ND		ND	
other y	Co-60 (Approx. 5 years)	ND		ND		ND		ND		ND	
	Sb-125 (Approx. 3 years)	ND		ND		1.1	[9/5]	ND		ND	
	ΑΙΙ β	1,700	[7/8]	380	[7/29]	1,400	[7/11]	180	[8/1]	ND	
1	H-3 (Approx. 12 years)	850	[6/26]	440	[8/26]	3,200	(2012/12/ 12)	460	[8/1]	ND	
S	r-90(Approx. 29 years)	54	[5/31]	Under analysis		8.3	[2012/12/ 12]	Under analysis		Under analysis	

^{* &}quot;ND" indicates that the measurement result is below the detection limit.

^{*} Date of sampling is provided in parentheses.

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

Unit: Bq/L

	Unit 5,6	orth side of 6 discharge nannel	,	ont of Unit 6 ake channel	,	front of draft quay	Unit 1-4 w	th side of rater intake nnel	Unit 1-4 w channel (of East			1 Screen the Silt nce)	water inta	and Unit 2	water inta of Unit 1	ween the ike channel and Unit 2 r layer)	(Inside	2 Screen the Silt nce)	water inta of Unit 2		water into	tween the ake channel and Unit 3 er layer)	(Inside	3 Screen the Silt nce)
Cs-134(Approx. 2 years)	1.8	[6/21]	2.4	(8/19)	5.3	(8/5)	54	(9/10)	16	[8/12]	24	(8/12) (8/19)	39	[9/10]	13	[8/29]	26	(8/19)	21	[8/12]	3.5	(8/20)	350	(7/15)
Cs-137(Approx.30 years)	3.3	[6/26]	4.7	(8/19)	8.6	[8/5]	110	(9/10)	33	[8/12]	51	[8/12]	80	[9/10]	25	[8/29]	52	(8/19)	38	[9/9]	9.8	[8/20]	770	(7/15)
ΑΙΙ β	ND		46	(8/19)	40	[7/3]	1,100	(8/15)	320	[8/12]	700	[8/12]	740	[8/15]	450	[7/16]	520	(9/9)	450	[9/9]	85	[8/20]	1,000	(7/15)
H-3 (Approx. 12 years)	8.6	[6/26]	24	(8/19)	340	(6/26)	4,700	(8/15)	460	[7/15]	2,500	[8/12]	2,600	[8/15]	1,600	[9/1]	1,500	(9/9)	720	(8/12)	-		410	[9/2]
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	

Unit: Bq/L

	water into		water in	etween the take channel 3 and Unit 4 er layer)	(Inside	4 Screen the Silt nce)	south o	ound the discharge annel	1F, Poi	rt entrance	,	side in the ort		side in the ort		n side in the port	,	n side in the port	North side of the north breakwat		South side of the south breakwater
Cs-134(Approx. 2 years)	22	[8/12]	4.8	[8/20]	46	[7/8]	ND		1.6	(8/19)	2.9	[8/19]	2.6	[8/19]	ND		2.1	[8/19]	ND	ND	ND
Cs-137(Approx.30 years)	45	[8/12]	7.7	[8/20]	93	[7/8]	3.0	[7/15]	4.7	(8/19)	6.6	[8/19]	6.5	[8/19]	4.7	[8/19]	4.6	[8/19]	ND	ND	ND
ΑΙΙ β	390	[8/12]	57	[8/20]	310	[8/12]	ND		69	(8/19)	74	[8/19]	60	[7/4]	69	(8/19)	79	[8/19]	ND	ND	ND
H-3 (Approx. 12 years)	650	[8/12]	-		400	[8/12]	ND		68	(8/19)	67	(8/19)	59	[8/19]	52	(8/19)	60	[8/19]	4.7 (8/14	I) ND	ND
Sr-90 (Approx. 29 years)	Under analysis		-		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.

^{* &}quot;ND" indicates that the measurement result is below the detection limit.

^{*} Date of sampling is provided in parentheses.

^{* &}quot;-" indicates that the measurement was out of range.