Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (1/4) Underground Water Obtained at Bank Protection

		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	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 8, 2013	Sep 8, 2013	Sep 9, 2013	Sep 9, 2013	/	/	Sep 9, 2013	Sep 10, 2013	Sep 9, 2013	/	1	1	1 /
	Time of sampling	12:02 PM	12:35 PM	10:51 AM	1:37 PM		/	10:15 AM	6:20 AM	1:30 PM				
	Chloride (unit: ppm)	-	-	-	-			-	370	-				
(Cs-134 (Approx. 2 years)	0.92	ND(0.46)	ND (0.40)	54			17	33	ND(0.63)				
(Cs-137 (Approx.30 years)	2.4	0.67	0.72	110			37	77	ND(0.68)				
	Ru-106 (Approx. 370 days)	ND	ND	12	ND			ND	ND	9.0				
The other	,													
	ΑΙΙ β	79	ND(17)	650	460,000			370	200	89,000				
	H-3 (Approx. 12 years)	30,000	ND(130)	350,000	280,000			1,200	380	220,000				
,	Gr-90 (Approx. 29 years)	-	-	-	-			-	-	-	ĺ			

^{*} Data announced this time is provided in a thick-frame. The other data was announced on September 9, 10 and 11.

^{* &}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

		Underground water observation hole No.0-1		Underground n 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	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		Λ	Sep 12, 2013	Sep 12, 2013	/	1	/	Sep 12, 2013	/	1	1	1	1 /
	Time of sampling	/		9:30 AM	9:58 AM				6:55 AM					
	Chloride (unit: ppm)	/		-	-				360					
С	s-134 (Approx. 2 years)			ND(0.46)	110				8.7					
C	s-137 (Approx.30 years)	/		ND(0.58)	270				20					
	Ru-106 (Approx. 370 days)			6.5	ND				ND					
The other y														
	ΑΙΙ β			1,000	430,000				270					
ı	H-3 (Approx. 12 years)	/		Under analysis	Under analysis				Under analysis	/				
Sı	r-90 (Approx. 29 years)	/		-	-	V		V	-	ĺ				/

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

 $^{^{\}star}$ "-" 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	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)
Date of Sampling	Sep 9, 2013	Sep 9, 2013	Sep 9, 2013	Sep 10, 2013	Sep 9, 2013	Sep 9, 2013	Sep 10, 2013	Sep 10, 2013	Sep 9, 2013	Sep 9, 2013	Sep 9, 2013
Time of sampling	6:05 AM	5:55 AM	5:50 AM	6:06 AM	6:31 AM	6:01 AM	6:16 AM	6:16 AM	6:05 AM	6:11 AM	6:15 AM
Cs-134(Approx. 2 years)	ND(1.1)	ND(2.3)	2.3	54	12	31	39	11	25	19	21
Cs-137(Approx.30 years)	ND(1.1)	ND(2.7)	4.5	110	19	68	80	24	49	38	38
ΑΙΙ β	ND(16)	ND(17)	ND(17)	880	250	550	690	310	520	450	270
H-3 (Approx. 12 years)	ND(1.8)	4.0	ND(110)	3,400	240	1400	1,900	470	1500	790	270
Sr-90(Approx. 29 years)	-	-	-	-	-	-	-	-	-	-	-

	1F, Between the water intake channel of Unit 3 and Unit 4	Screen	1F, Around the south discharge channel	1F P0rt	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 9, 2013	Sep 9, 2013	Sep 9, 2013					/			
Time of sampling	6:20 AM	6:18 AM	5:20 AM								
Cs-134(Approx. 2 years)	14	21	ND(1.3)							/	
Cs-137(Approx.30 years)	36	45	ND(1.5)				/			/	
ΑΙΙ β	280	210	ND(15)								
H-3 (Approx. 12 years)	410	220	ND(1.8)			/	/			/	
Sr-90 (Approx. 29 years)	-	-	-			/	/			/	

^{*} Data announced this time is provided in a thick-frame. The other data was announced on September 10 and 11.

^{* &}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	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)
Date of Sampling				Sep 12, 2013			Sep 12, 2013	Sep 12, 2013			
Time of sampling				6:32 AM			6:50 AM	6:50 AM			
Cs-134(Approx. 2 years)				33			24	12			
Cs-137(Approx.30 years)				65			45	23			
ΑΙΙ β				690			360	360			
H-3 (Approx. 12 years)				Under analysis			Under analysis	Under analysis			
Sr-90 (Approx. 29 years)				-			-	-	/	/	

	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 11, 2013	Sep 11, 2013	Sep 11, 2013
Time of sampling									9:16 AM	8:59 AM	9:06 AM
Cs-134(Approx. 2 years)								/	ND(0.70)	ND(0.80)	ND(0.74)
Cs-137(Approx.30 years)									ND(0.62)	ND(0.71)	ND(0.64)
ΑΙΙ β									ND(17)	ND(17)	ND(17)
H-3 (Approx. 12 years)			/			/	/	/	Under analysis	Under analysis	Under analysis
Sr-90 (Approx. 29 years)	/				/	/	/	/	=	-	-

^{* &}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

			observa	dwater tion hole .0-1	observa	ndwater ation hole 0.0-2		dwater tion hole o.1	Ground observat No.	ion hole	observa	dwater tion hole .1-2	Ground observat No.	ion hole	Ground observati No.	tion hole	observa	dwater tion hole .1-5	observa	dwater tion hole .1-8	Ground observat No.	ion hole	Ground pumped the wel (notch	up from II point
	Cs	s-134 (Approx. 2 years)	1.4	[8/29]	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]	1.5	[8/19]
	Cs	:-137 (Approx.30 years)	3.0	[8/29]	0.75	[9/2]	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]	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		25	[9/2]
Т	he	Mn-54 (Approx. 310 days)	ND		ND		ND		1.0	[7/5]	62	[7/5]	ND		ND		ND		0.52	[8/26]	ND		ND	
oth	ner γ	Co-60 (Approx. 5 years)	ND		ND		0.50	[7/19]	ND		3.1	[7/8]	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	
		ΑΙΙ β	300	[8/22]	ND		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)	360,000	[9/2]
	H	H-3 (Approx. 12 years)	45,000	[8/29]	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)	1100	[9/2]	670	[9/3]	460,000	(8/19)
	Sı	r-90(Approx. 29 years)	Under analysis		Under analysis	i	1,200	[6/7]	Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		-	

											J 24, 2
		observa	dwater tion hole o.2	Ground observat No.	tion hole	observa	ndwater ation hole lo.3	Ground observat No.	ion hole	Ground observat No.	ion hole
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 γ	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	[9/12]
ŀ	H-3 (Approx. 12 years)	850	[6/26]	440	[8/26]	3,200	[2012/12/ 12]	460	[8/1]	Under analysis	
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	th side of discharge annel	,	int of Unit 6 ake channel	,	front of draft quay	Unit 1-4 w		Unit 1-4 w channel (of East	th side of vater intake (north side Seawall eak)	(Inside	1 Screen the Silt nce)	water inta of Unit 1		water inta of Unit 1		(Inside	2 Screen the Silt nce)	water inta of Unit 2	ween the ke channel and Unit 3 e layer)	water into	ween the ake channel and Unit 3 r 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]	820	[8/19]	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	

	water into		water int of Unit 3	etween the take channel 3 and Unit 4 er layer)	(Inside	4 Screen the Silt nce)	south o	ound the discharge annel	1F, Por	rt entrance	,	side in the ort		side in the ort		n side in the port	,	n side in the port	North side of th north breakwate		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) 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.