

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

	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
Date of sampling	Sep 1, 2013		Sep 2, 2013	Sep 2, 2013	Sep 2, 2013	Sep 2, 2013	Sep 2, 2013		Sep 2, 2013			
Time of sampling	11:03 AM		10:07 AM	11:56 AM	10:37 AM	11:16 AM	9:37 AM		9:35 AM			
Cs-134 (Approx. 2 years)	0.8		1.5	140	10	40	30		ND(1.6)			
Cs-137 (Approx.30 years)	2.1		3.5	300	24	85	63		ND(1.6)			
The other γ	Ru-106 (Approx. 370 days)		11	ND	ND	ND	ND		25			
All β	160		1,300	590,000	21,000	2,000	1,100		360,000			
H-3 (Approx. 12 years)	38,000		400,000	350,000	200,000	23,000	1,100		380,000			
Sr-90 (Approx. 29 years)	-		-	-	-	-	-		-			

* Data announced this time is provided in a thick-frame. The other data was announced on September 2 and 3.

* "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 (2/4)
Underground Water Obtained at Bank Protection

Unit: Bq/L

	Underground water observation hole No.0-1	Underground water observation hole No.0-2 ¹¹	Underground water observation hole No.1	Underground water observation hole No.1-2	Underground water observation hole No.1-3 ¹¹	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
Date of sampling			Sep 5, 2013	Sep 5, 2013		Sep 5, 2013		Sep 5, 2013				Sep 5, 2013
Time of sampling			9:40 AM	1:40 PM		12:58 PM		10:20 AM				9:20 AM
Chloride (unit: ppm)			-	-		-		250				-
Cs-134 (Approx. 2 years)			2.5	82		50		110				3.0
Cs-137 (Approx.30 years)			5.7	180		110		240				3.0
The other γ			12	ND		ND		ND				ND
			ND	ND		ND		ND				1.1
All β			1,500	500,000		820		540				ND(24)
H-3 (Approx. 12 years)			Under analysis	Under analysis		Under analysis		Under analysis				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 (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 (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	/	/	/	/	/	/	/	/	/	/	/
Time of sampling	/	/	/	/	/	/	/	/	/	/	/
Cs-134(Approx. 2 years)	/	/	/	/	/	/	/	/	/	/	/
Cs-137(Approx.30 years)	/	/	/	/	/	/	/	/	/	/	/
All 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	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 3, 2013	Sep 3, 2013	Sep 3, 2013
Time of sampling	/	/	/	/	/	/	/	/	8:39 AM	8:25 AM	8:31 AM
Cs-134(Approx. 2 years)	/	/	/	/	/	/	/	/	ND(0.88)	ND(0.63)	ND(0.43)
Cs-137(Approx.30 years)	/	/	/	/	/	/	/	/	ND(0.58)	ND(0.69)	ND(0.66)
All β	/	/	/	/	/	/	/	/	ND(16)	ND(16)	ND(16)
H-3 (Approx. 12 years)	/	/	/	/	/	/	/	/	Under analysis	Under analysis	Under analysis
Sr-90 (Approx. 29 years)	/	/	/	/	/	/	/	/	-	-	-

* Data announced this time is provided in a thick-frame. The other data was announced on September 3 and 4.

* "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 (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 (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 5, 2013	/	/	Sep 5, 2013	Sep 5, 2013	/	/	/
Time of sampling	/	/	/	6:02 AM	/	/	6:15 AM	6:15 AM	/	/	/
Cs-134(Approx. 2 years)	/	/	/	28	/	/	17	7.0	/	/	/
Cs-137(Approx.30 years)	/	/	/	61	/	/	47	13	/	/	/
All β	/	/	/	580	/	/	390	110	/	/	/
H-3 (Approx. 12 years)	/	/	/	Under analysis	/	/	Under analysis	Under analysis	/	/	/
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	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	/	/	/	/	/	/	/	/	/	/	/
Time of sampling	/	/	/	/	/	/	/	/	/	/	/
Cs-134(Approx. 2 years)	/	/	/	/	/	/	/	/	/	/	/
Cs-137(Approx.30 years)	/	/	/	/	/	/	/	/	/	/	/
All β	/	/	/	/	/	/	/	/	/	/	/
H-3 (Approx. 12 years)	/	/	/	/	/	/	/	/	/	/	/
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.

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

Unit: Bq/L

	Groundwater observation hole No.0-1	Groundwater observation hole No.0-2	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 pumped up from the well point (notch tank)	
Cs-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]	
The other γ	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]
	Mn-54 (Approx. 310 days)	ND	ND	ND	1.0 [7/5]	62 [7/5]	ND	ND	ND	0.52 [8/26]	ND	ND
	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
All 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]	470 [9/3]	360,000 [9/2]	
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]	950 [8/20]	670 [9/3]	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	-	

Unit: Bq/L

	Groundwater observation hole No.2	Groundwater observation hole No.2-1	Groundwater observation hole No.3	Groundwater observation hole No.3-1
Cs-134 (Approx. 2 years)	0.50 [7/9]	0.66 [9/1]	3.5 [7/25]	1.2 [7/25] [8/8]
Cs-137 (Approx.30 years)	1.2 [7/11] [8/1]	1.1 [8/29] [9/1]	5.9 [8/8]	2.6 [8/1]
The other γ	Ru-106 (Approx. 370 days)	ND	ND	ND
	Mn-54 (Approx. 310 days)	ND	ND	ND
	Co-60 (Approx. 5 years)	ND	ND	ND
	Sb-125 (Approx. 3 years)	ND	ND	ND
All β	1,700 [7/8]	380 [7/29]	1,400 [7/11]	180 [8/1]
H-3 (Approx. 12 years)	850 [6/26]	440 [8/26]	3,200 [2012/12/12]	460 [8/1]
Sr-90(Approx. 29 years)	54 [5/31]	Under analysis	8.3 [2012/12/12]	Under analysis

* "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

	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 (surface layer)	1F, Between the water intake channel of Unit 2 and Unit 3 (lower layer)	1F, Unit 3 Screen (Inside the Silt Fence)
Cs-134(Approx. 2 years)	1.8 [6/21]	2.4 [8/19]	5.3 [8/5]	35 [8/29]	16 [8/12]	24 [8/12] [8/19]	27 [8/11]	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]	81 [8/13]	33 [8/12]	51 [8/12]	64 [8/27]	25 [8/29]	52 [8/19]	37 [8/12]	9.8 [8/20]	770 [7/15]
All β	ND	46 [8/19]	40 [7/3]	1,100 [8/15]	320 [8/12]	700 [8/12]	740 [8/15]	450 [7/16]	490 [8/19]	410 [8/12]	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]	-	380 [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

Unit: Bq/L

	1F, Between the water intake channel of Unit 3 and Unit 4 (surface layer)	1F, Between the water intake channel of Unit 3 and Unit 4 (lower layer)	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
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
All 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.

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

* Date of sampling is provided in parentheses.

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