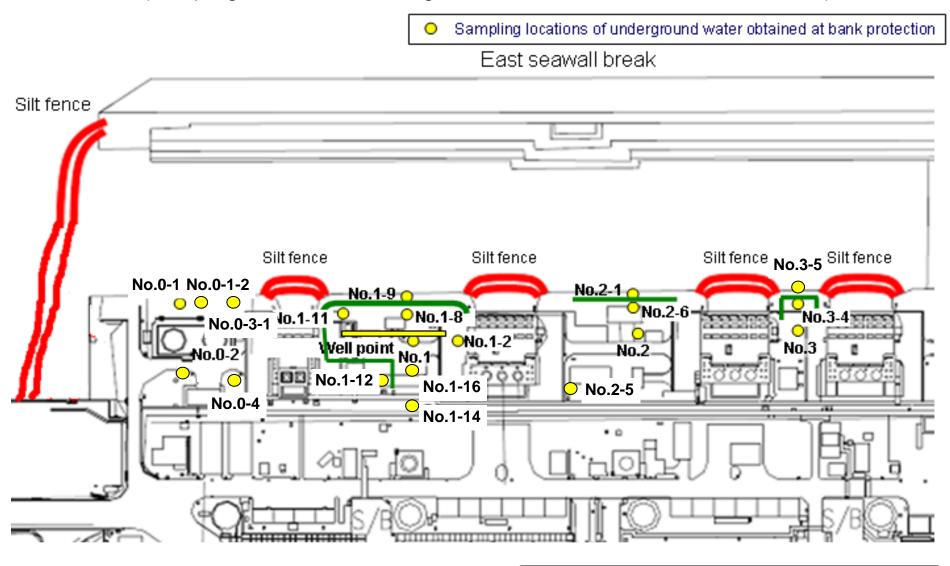
Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Underground Water Obtained at Bank Protection)



: Location where ground improvement work was completed, or being implemented (as of November 6)

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 chloride)

		Underground water observation hole No.0-1	ervation water observation water observation water		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		/	,	1 /	/	1 /	/	1 /	1	1 /	/	1	1 /	/
Time of sampling														
	Chloride (unit: ppm)													
Cs	s-134 (Approx. 2 years)													
Cs	s-137 (Approx.30 years)													
The other y														
ou.o. y														
All β														
H	H-3 (Approx. 12 years)	1/												
Sr	-90 (Approx. 29 years)			/			/	/			/		/	/

		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 24, 2013	/	Nov 24, 2013	Nov 24, 2013	/	/	/
	Time of sampling		9:28 AM		10:08 AM	10:40 AM		/	
	Chloride (unit: ppm)		-		-	750			
C	s-134 (Approx. 2 years)		ND(0.40)		ND(0.48)	0.83			
Cs-137 (Approx.30 years)			ND(0.54)		ND(0.52)	2.3			
The other y									
	ΑΙΙ β		340		2,300	ND(21)			
ŀ	H-3 (Approx. 12 years)		760		1,200	970			
Sr	-90 (Approx. 29 years)	/	-	/	-	-		/	

^{*} Data announced this time is provided in a thick-frame. The other data was announced on November 25.

^{* &}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 (2/2) Underground Water Obtained at Bank Protection

Unit: Bq/L (exclude chloride)

		Underground water observation hole No.0-1	water observation water observation wa		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	/	/	1 /	/		/	1	1		/	1 /	1	1
Time of sampling														
Chloride (unit: ppm)														
Cs	s-134 (Approx. 2 years)													
Cs	s-137 (Approx.30 years)													
The other y														
	ΑΙΙ β													
H	H-3 (Approx. 12 years)	rs)												
Sr	r-90 (Approx. 29 years)					/			/	/				/

		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 27, 2013	/	Nov 27, 2013	Nov 27, 2013	/	Nov 27, 2013	Nov 27, 2013
	Time of sampling		9:25 AM		9:53 AM	10:22 AM		11:14 AM	11:36 AM
	Chloride (unit: ppm)		-		-	700		-	150
Cs	s-134 (Approx. 2 years)		ND(0.42)		ND(0.48)	0.88		1.7	-
Cs	-137 (Approx.30 years)		ND(0.52)		ND(0.55)	2.2		4.3	-
									-
The other y									-
									-
	ΑΙΙ β		310		2,500	ND(18)		ND(18)	35
H	I-3 (Approx. 12 years)		Under analysis		Under analysis	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.

 $^{^{\}star}$ Since the water of No.3-5 was highly turbid, only chloride, all β and tritium were analyzed as a reference.

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

Unit: Bg/

Co 124 (Approx 2 years)		Groun observa No.		observa	ndwater ation hole 0-1-2	observa	ndwater ation hole .0-2	observa	ndwater ation hole 0-3-1	observa	dwater ition hole .0-4		dwater tion hole o.1	observa	dwater tion hole 1-1*	Ground observati No.	tion hole	observa	dwater tion hole 1-3*	observa	dwater tion hole 1-4*	observa	dwater tion hole 1-5*	observa	ndwater ation hole 0.1-8
Cs	Cs-134 (Approx. 2 years)		[11/10]	ND		0.61	[10/13]	0.44	[11/24]	ND		13	[8/29]	1.9	[7/8]	11,000	[7/9]	10	[9/2]	1.5	[7/8]	310	[8/5]	47	[11/25]
Cs	Cs-137 (Approx.30 years)		[11/10]	0.51	[11/17]	1.6	[10/13]	0.86	[11/20]	0.48	[11/10]	31	[8/29]	3.6	[7/8]	22,000	[7/9]	24	[9/2]	3.6	[7/8]	650	[8/5]	110	[11/25]
	Ru-106 (Approx. 370 days)	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		ND		1.0	[7/5]	62	[7/5]	ND		ND		ND		7.1	[11/25]
other $\boldsymbol{\gamma}$	Co-60 (Approx. 5 years)	ND		ND		ND		ND		ND		0.50	[7/19]	ND		3.1	[7/8]	ND		ND		ND		0.58	[11/18]
	Sb-125 (Approx. 3 years)	ND		ND		ND		ND		ND		1.7	[7/11]	ND		250	(7/15)	1.4	(7/12) (8/26)	ND		12	[8/8]	ND	
	ΑΙΙ β	300	[8/22]	21	[11/10]	87	[10/13]	ND		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)	18,000	[11/25]
H	H-3 (Approx. 12 years)	45,000	(8/29)	48,000	[11/17]	130	[11/17]	ND		19,000	[11/10]	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)	4,900	[11/18]
S	Sr-90(Approx. 29 years)			Under analysis		Under analysis	•	Under analysis	•	1,200	[6/7]	Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis		Under analysis	•

		observa	dwater tion hole 1-9	Groun observa No.		observa	dwater tion hole 1-12	observa	dwater tion hole 1-14	observa	dwater tion hole 1-16	Groundwater observation hole No.1-17		Ground pumped the wel (notch	up from Il point
Cs-134 (Approx. 2 years)		170	[9/3]	0.94	[10/31]	74	[10/21]	1.2	[11/14]	1.6	[11/14]	ND	[11/22]	110	[9/23]
Cs	Cs-137 (Approx.30 years)		[9/3]	2.0	(10/10) (11/11)	170	[10/21]	2.3	[11/21]	3.4	[10/10]	ND	[11/22]	250	[9/23]
	Ru-106 (Approx. 370 days)	ND		ND		5.4	[10/28]	ND		9.2	[10/28]	4.0	[11/22]	25	[9/2]
The	Mn-54 (Approx. 310 days)	ND		ND		ND		ND		ND		ND		ND	
other y	Co-60 (Approx. 5 years)	ND		ND		0.51	[10/24]	ND		0.9	[11/7]	0.61	[11/25]	ND	
	Sb-125 (Approx. 3 years)	ND		ND		61	[10/21]	ND		8.6	[11/18]	2.1	[11/25]	ND	
	ΑΙΙ β		[11/17]	72	[10/3]	730	[10/21]	160	[11/21]	910,000	[11/25]	78	[11/25]	700,000	[9/23]
H	H-3 (Approx. 12 years)		[11/14]	85,000	(9/13)	440,000	[10/31]	4,700	[11/21]	43,000	(9/26)	9,800	[11/22]	460,000	(8/19)
S	Sr-90(Approx. 29 years)			Under analysis		Under analysis	[10/21]	Under analysis		Under analysis		Under analysis		-	

																			Unit: Bq/L
		observa	ndwater ation hole o.2	observa	dwater tion hole 2-1*		dwater tion hole 2-5 ^{*1}	observa	idwater ition hole .2-6	observa	dwater tion hole .2-7	observa	ndwater ation hole o.3		dwater tion hole 3-1*	observa	idwater ition hole .3-4	observa	ndwater ation hole .3-5
Cs-134 (Approx. 2 years)		0.50	[7/9]	0.66	[9/1]	3.9	[11/7]	0.56	[10/30]	1.3	[11/21]	3.5	[7/25]	1.2	(7/25) (8/8)	1.8	[10/30]	-	
Cs	-137 (Approx.30 years)	1.2	(7/11) (8/1)	1.1	(8/29) (9/1)	10	[9/29]	0.61	[10/13]	3.1	[11/21]	5.9	[8/8]	2.6	[8/1]	3.8	[10/30]	-	
	Ru-106 (Approx. 370 days)	ND		ND		ND		ND		ND		ND		ND		ND		-	
The	Mn-54 (Approx. 310 days)	ND		ND		0.77	[9/29]	ND		ND		ND		ND		0.54	[10/30]	-	
other y	Co-60 (Approx. 5 years)	ND		ND		ND		ND		ND		ND		ND		ND		-	
	Sb-125 (Approx. 3 years)	ND		ND		26	[9/29]	ND		ND		1.1	(9/5)	ND		ND		-	
	ΑΙΙ β	1,700	[7/8]	380	[7/29]	46,000	[9/29]	2,300	[11/24]	18	[11/21]	1,400	[7/11]	180	[8/1]	ND		22*2	[11/23]
H-3 (Approx. 12 years)		850	(6/26)	440	[8/26]	3,100	[11/7]	1,100	(10/13) (10/17) (11/6) (11/10) (11/13) (11/20)	1,000	(11/21)	3,200	(H24. 12/12)	460	(8/1)	170	(9/18)	ND ^{*2}	
s	Sr-90(Approx. 29 years)		[5/31]	Under analysis		Under analysis		Under analysis		Under analysis		8.3	[2012/12/ 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 Since the water of No.3-5 obtained on November 23 was highly turbid, only chloride, all \(\beta \) and tritium were analyzed as a reference.

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

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

^{* &}quot;*" is provided next to the name of the holes where the sampling could not be performed due to the chemical injection of ground improvement.