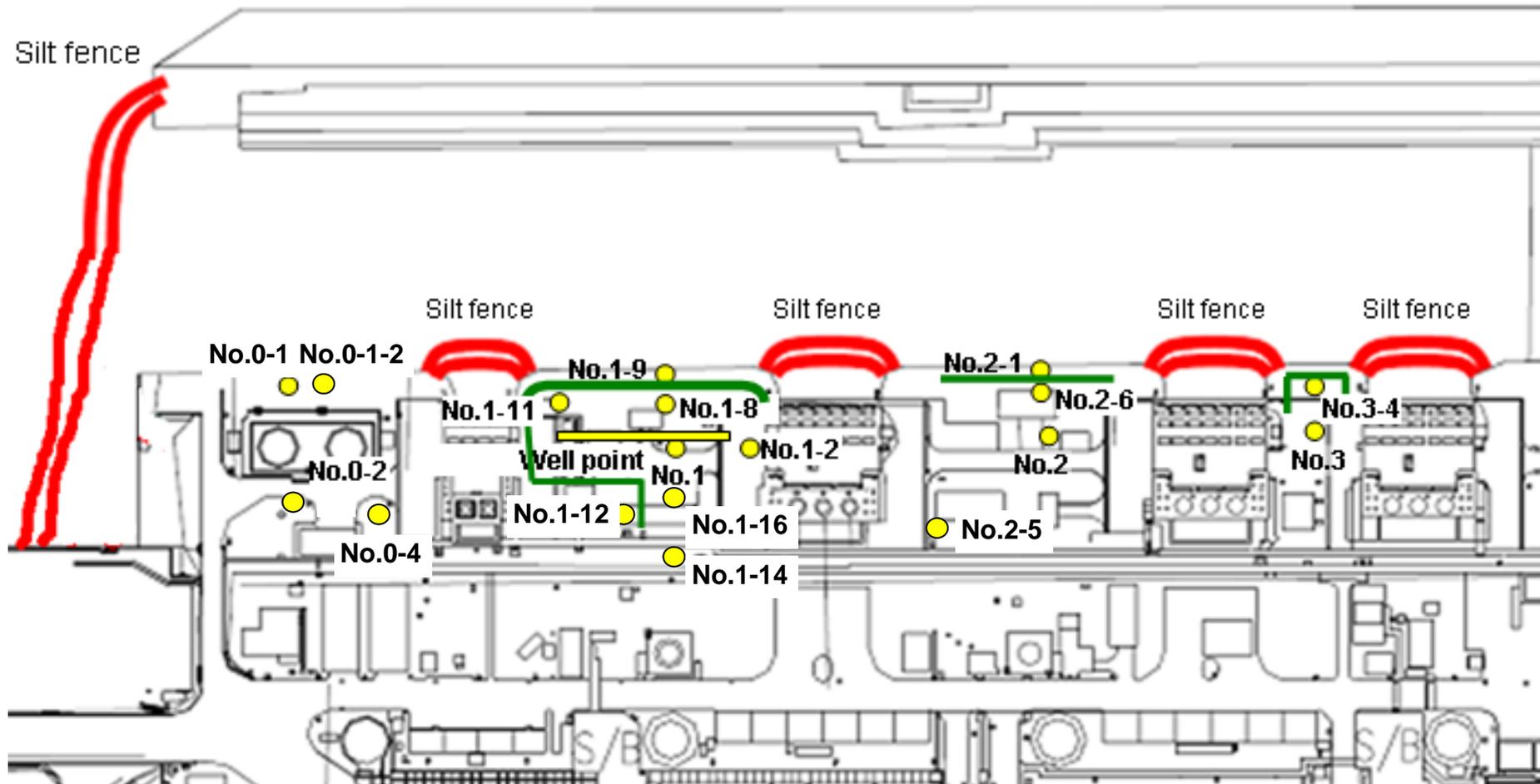


Detailed Analysis Results in the Port of Fukushima Daiichi NPS, around Discharge Channel and Bank Protection (Sampling Locations of Underground Water Obtained at Bank Protection)

● Sampling locations of underground water obtained at bank protection

East seawall break



— : 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 Underground Water Obtained at Bank Protection

Unit: Bq/L (exclude chloride)

	Underground water observation hole No.0-1	Underground water observation hole No.0-1-2	Underground water observation hole No.0-2	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	Groundwater pumped up from the well point
Date of sampling				Nov 20, 2013								
Time of sampling				12:44 PM								
Chloride (unit: ppm)				-								
Cs-134 (Approx. 2 years)				ND(0.42)								
Cs-137 (Approx.30 years)				0.86								
The other γ												
All β				ND(21)								
H-3 (Approx. 12 years)				Under analysis								
Sr-90 (Approx. 29 years)				Under analysis								

	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.3	Underground water observation hole No.3-4
Date of sampling					
Time of sampling					
Cs-134 (Approx. 2 years)					
Cs-137 (Approx.30 years)					
The other γ					
All β					
H-3 (Approx. 12 years)					
Sr-90 (Approx. 29 years)					

(Note) No.1-2 and No.2-1 were deleted from the chart, since sampling could not be performed due to the chemical injection of ground improvement.

* "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.0-1-2	Groundwater observation hole No.0-2	Groundwater observation hole No.0-4	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
Cs-134 (Approx. 2 years)	6.3 [11/10]	ND	0.61 [10/13]	ND	13 [8/29]	1.9 [7/8]	11,000 [7/9]	10 [9/2]	1.5 [7/8]	310 [8/5]	43 [10/28]	170 [9/3]
Cs-137 (Approx.30 years)	14 [11/10]	0.51 [11/17]	1.6 [10/13]	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]	96 [11/18]	380 [9/3]
The other y	Ru-106 (Approx. 370 days)	ND	ND	ND	26 [5/24]	7.9 [7/8]	160 [8/15]	17 [7/22] [8/8]	3.1 [8/8]	ND	ND	ND
	Mn-54 (Approx. 310 days)	ND	ND	ND	ND	1.0 [7/5]	62 [7/5]	ND	ND	ND	5.2 [11/18]	ND
	Co-60 (Approx. 5 years)	ND	ND	ND	0.50 [7/19]	ND	3.1 [7/8]	ND	ND	ND	0.58 [11/18]	ND
	Sb-125 (Approx. 3 years)	ND	ND	ND	ND	1.7 [7/11]	ND	250 [7/15]	1.4 [7/12] [8/26]	ND	12 [8/8]	ND
All β	300 [8/22]	21 [11/10]	87 [10/13]	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]	14,000 [11/18]	2,100 [11/17]
H-3 (Approx. 12 years)	45,000 [8/29]	36,000 [11/10]	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]	2,700 [11/11]	860 [11/14]
Sr-90(Approx. 29 years)	Under analysis	Under analysis	Under analysis	Under analysis	1,200 [6/7]	Under analysis						

Unit: Bq/L

	Groundwater observation hole No.1-11	Groundwater observation hole No.1-12	Groundwater observation hole No.1-14	Groundwater observation hole No.1-16	Groundwater pumped up from the well point (notch tank)
Cs-134 (Approx. 2 years)	0.94 [10/31]	74 [10/21]	1.2 [11/14]	1.6 [11/14]	110 [9/23]
Cs-137 (Approx.30 years)	2.0 [10/10] [11/11]	170 [10/21]	2.1 [11/18]	3.4 [10/10]	250 [9/23]
The other y	Ru-106 (Approx. 370 days)	ND	5.4 [10/28]	ND	9.2 [10/28]
	Mn-54 (Approx. 310 days)	ND	ND	ND	ND
	Co-60 (Approx. 5 years)	ND	0.51 [10/24]	ND	0.9 [11/7]
	Sb-125 (Approx. 3 years)	ND	61 [10/21]	ND	8.6 [11/18]
All β	72 [10/3]	730 [10/21]	33 [11/10]	880,000 [10/14]	700,000 [9/23]
H-3 (Approx. 12 years)	85,000 [9/13]	440,000 [10/31]	3,600 [11/14]	43,000 [9/26]	460,000 [8/19]
Sr-90(Approx. 29 years)	Under analysis	Under analysis [10/21]	Under analysis	Under analysis	-

Unit: Bq/L

	Groundwater observation hole No.2	Groundwater observation hole No.2-1	Groundwater observation hole No.2-5 ^{*1}	Groundwater observation hole No.2-6	Groundwater observation hole No.3	Groundwater observation hole No.3-1	Groundwater observation hole No.3-4
Cs-134 (Approx. 2 years)	0.50 [7/9]	0.66 [9/1]	3.9 [11/7]	0.56 [10/30]	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]	5.9 [8/8]	2.6 [8/1]	3.8 [10/30]
The other y	Ru-106 (Approx. 370 days)	ND	ND	ND	ND	ND	ND
	Mn-54 (Approx. 310 days)	ND	ND	0.77 [9/29]	ND	ND	0.54 [10/30]
	Co-60 (Approx. 5 years)	ND	ND	ND	ND	ND	ND
	Sb-125 (Approx. 3 years)	ND	ND	26 [9/29]	ND	1.1 [9/5]	ND
All β	1,700 [7/8]	380 [7/29]	46,000 [9/29]	2,100 [11/17]	1,400 [7/11]	180 [8/1]	ND
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]	3,200 [2012/12/12]	460 [8/1]	170 [9/18]
Sr-90(Approx. 29 years)	54 [5/31]	Under analysis	Under analysis	Under analysis	8.3 [2012/12/12]	Under analysis	Under analysis

*1 Although we previously announced the analysis result of y and all β on September 29, we have reanalyze the sample.

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

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

* Date of sampling is provided in parentheses.