

Revised Version

Nuclides Analysis Result of Radioactive Materials of Sub-Drain <1/9>

(Data summarized on June 6)

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Unit 4 Sub-Drain at Fukushima Daiichi NPS
Date of Sampling	Jun 10, 2013	Jun 10, 2013
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	1.3E-01	ND
Cs-137 (Approx. 30 years)	2.9E-01	ND
H-3 (approx. 12yrs)	2.2E-01	2.3E+00
Gross α	ND	ND
Gross β	6.4E-01	1.5E-02
Sr-89 (Approx. 51 days)	*	*
Sr-90 (Approx. 29 years)	*	*

\* O.OE±O is the same as O.O x 10<sup>±0</sup>

\* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced on June 11, 2013.

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

I-131: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-134: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-137: Approx. 2E-2Bq/cm<sup>3</sup>,

Gross α: Approx. 1E-4Bq/cm<sup>3</sup>\*1

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* "\*" indicates that the sample is under analysis.

\*1 The detection limit of Gross α was corrected from approx. 3E-3Bq/cm<sup>3</sup> to 1E-4Bq/cm<sup>3</sup>.

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials of Sub-Drain <2/9>

(Data summarized on July 2)

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Unit 4 Sub-Drain at Fukushima Daiichi NPS
Date of Sampling	Jun 10, 2013	Jun 10, 2013
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	1.3E-01	ND
Cs-137 (Approx. 30 years)	2.9E-01	ND
H-3 (approx. 12yrs)	2.2E-01	2.3E+00
Gross α	ND	ND
Gross β	6.4E-01	1.5E-02
Sr-89 (Approx. 51 days)	ND	ND
Sr-90 (Approx. 29 years)	1.6E-01	ND

\* O.OE±O is the same as O.O x 10<sup>±O</sup>

\* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced on June 11, 2013. H-3, Gross α, and Gross β were announced on June 6, 2014.

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

I-131: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-134: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-137: Approx. 2E-2Bq/cm<sup>3</sup>,  
Gross α: Approx. 1E-4Bq/cm<sup>3\*1</sup>, Sr-89: Approx. 3E-1Bq/cm<sup>3</sup>, Sr-90: Approx. 5E-4Bq/cm<sup>3</sup>

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* "\*" indicates that the sample is under analysis.

\*1 The detection limit of Gross α was corrected from approx. 3E-3Bq/cm<sup>3</sup> to 1E-4Bq/cm<sup>3</sup>.

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials of Sub-Drain <3/9>

(Data summarized on June 6)

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Unit 6 Sub-Drain at Fukushima Daiichi NPS
Date of Sampling	Aug 16, 2013	Aug 16, 2013
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	1.3E-01	ND
Cs-137 (Approx. 30 years)	3.4E-01	ND
H-3 (approx. 12yrs)	3.6E-01	2.7E-02
Gross α	ND	ND
Gross β	7.1E-01	4.5E-03
Sr-89 (Approx. 51 days)	*	*
Sr-90 (Approx. 29 years)	*	*

\* O.OE±O is the same as O.O x 10<sup>±0</sup>

\* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced on August 17, 2013.

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

I-131: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-134: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-137: Approx. 2E-2Bq/cm<sup>3</sup>,

Gross α: Approx. 3E-3Bq/cm<sup>3</sup>\*1

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* "\*" indicates that the sample is under analysis.

\*1 The detection limit of Gross α was corrected from approx. 1E-4Bq/cm<sup>3</sup> to 3E-3Bq/cm<sup>3</sup>.

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials of Sub-Drain <4/9>

(Data summarized on July 2)

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Unit 6 Sub-Drain at Fukushima Daiichi NPS
Date of Sampling	Aug 16, 2013	Aug 16, 2013
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	1.3E-01	ND
Cs-137 (Approx. 30 years)	3.4E-01	ND
H-3 (approx. 12yrs)	3.6E-01	2.7E-02
Gross α	ND	ND
Gross β	7.1E-01	4.5E-03
Sr-89 (Approx. 51 days)	ND	ND
Sr-90 (Approx. 29 years)	1.0E-01	ND

\* O.OE±O is the same as O.O x 10<sup>±O</sup>

\* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced on August 17, 2013. H-3, Gross α, and Gross β were announced on June 6, 2014.

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

I-131: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-134: Approx. 2E-2Bq/cm<sup>3</sup>, Cs-137: Approx. 2E-2Bq/cm<sup>3</sup>,  
Gross α: Approx. 3E-3Bq/cm<sup>3</sup>\*1, Sr-89: Approx. 9E-2Bq/cm<sup>3</sup>, Sr-90: Approx. 5E-4Bq/cm<sup>3</sup>

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* "\*" indicates that the sample is under analysis.

\*1 The detection limit of Gross α was corrected from approx. 1E-4Bq/cm<sup>3</sup> to 3E-3Bq/cm<sup>3</sup>.

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials of Sub-Drain <5/9>

(Data summarized on April 28)

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Deep well at Fukushima Daiichi NPS
Date of Sampling	Sep 9, 2013	Sep 9, 2013
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	2.1E-01	ND
Cs-137 (Approx. 30 years)	4.9E-01	ND
H-3 (approx. 12yrs)	2.1E-01	7.3E-03
Gross α	ND	ND
Gross β	9.3E-01	ND
Sr-89 (Approx. 51 days)	ND	ND
Sr-90 (Approx. 29 years)	1.1E-01	ND

\* O.OE±O is the same as O.O x 10<sup>±O</sup>

\* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced on September 10, 2013.

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

I-131: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-134: Approx. 8E-3Bq/cm<sup>3</sup>, Cs-137: Approx. 7E-3Bq/cm<sup>3</sup>,

Gross α: Approx. 3E-3Bq/cm<sup>3</sup>\*1, Gross β: Approx. 2E-3Bq/cm<sup>3</sup>, Sr-89: Approx. 7E-4Bq/cm<sup>3</sup>, Sr-90: Approx. 1E-4Bq/cm<sup>3</sup>

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* "\*" indicates that the sample is under analysis.

\*1 The detection limit of Gross α was corrected from approx. 1E-4Bq/cm<sup>3</sup> to 3E-3Bq/cm<sup>3</sup>.

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials of Sub-Drain <6/9>

(Data summarized on April 28)

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Unit 1 Sub-Drain at Fukushima Daiichi NPS
Date of Sampling	Oct 14, 2013	Oct 14, 2013
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	1.3E-01	1.1E-01
Cs-137 (Approx. 30 years)	3.0E-01	2.7E-01
H-3 (approx. 12yrs)	1.7E-01	8.7E+01
Gross α	ND	ND
Gross β	6.9E-01	3.7E-01
Sr-89 (Approx. 51 days)	ND	ND
Sr-90 (Approx. 29 years)	1.1E-01	2.3E-03

\* O.OE±O is the same as O.O x 10<sup>±O</sup>

\* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced October 15, 2013.

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

I-131: Approx. 1E-2Bq/cm<sup>3</sup>, Gross α: Approx. 3E-3Bq/cm<sup>3</sup>\*1, Sr-89: Approx. 6E-4Bq/cm<sup>3</sup>,

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\*1 The detection limit of Gross α was corrected from approx. 1E-4Bq/cm<sup>3</sup> to 3E-3Bq/cm<sup>3</sup>.

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials of Sub-Drain <7/9>

(Data summarized on May 27)

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Unit 3 Sub-Drain at Fukushima Daiichi NPS
Date of Sampling	Nov 11, 2013	Nov 11, 2013
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	1.3E-01	ND
Cs-137 (Approx. 30 years)	3.2E-01	2.1E-02
H-3 (approx. 12yrs)	1.8E-01	5.5E-02
Gross α	ND	ND
Gross β	5.8E-01	4.6E-02
Sr-89 (Approx. 51 days)	ND	ND
Sr-90 (Approx. 29 years)	6.2E-02	3.3E-05

\* O.OE±O is the same as O.O x 10<sup>±O</sup>

\* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced November 12, 2013.

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.  
I-131: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-134: Approx. 1E-2Bq/cm<sup>3</sup>, Gross α: Approx. 3E-3Bq/cm<sup>3</sup>\*1, Sr-89: Approx. 6E-4Bq/cm<sup>3</sup>,

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\*1 The detection limit of Gross α was corrected from approx. 1E-4Bq/cm<sup>3</sup> to 3E-3Bq/cm<sup>3</sup>.

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.

Nuclides Analysis Result of Radioactive Materials of Sub-Drain <8/9>

(Data summarized on May 27)

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Unit 4 Sub-Drain at Fukushima Daiichi NPS
Date of Sampling	Dec 9, 2013	Dec 9, 2013
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	2.3E-01	ND
Cs-137 (Approx. 30 years)	5.9E-01	ND
H-3 (approx. 12yrs)	2.1E-01	7.6E-01
Gross α	ND	ND
Gross β	1.1E+00	1.2E-02
Sr-89 (Approx. 51 days)	ND	ND
Sr-90 (Approx. 29 years)	1.4E-01	1.4E-04

\* O.OE±O is the same as O.O x 10<sup>±0</sup>

\* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced December 10, 2013.

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.  
I-131: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-134: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-137: Approx. 2E-2Bq/cm<sup>3</sup>, Gross α: Approx. 3E-3Bq/cm<sup>3</sup>\*1, Sr-89: Approx. 3E-4Bq/cm<sup>3</sup>

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\*1 The detection limit of Gross α was corrected from approx. 1E-4Bq/cm<sup>3</sup> to 3E-3Bq/cm<sup>3</sup>.

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.



Nuclides Analysis Result of Radioactive Materials of Sub-Drain <9/9>

(Data summarized on July 2)

Place of Sampling	Unit 2 Sub-Drain at Fukushima Daiichi NPS	Unit 5 Sub-Drain at Fukushima Daiichi NPS
Date of Sampling	Jan 10, 2014	Jan 10, 2014
Detected Nuclides (Half-life)	Density of Sample (Bq/cm <sup>3</sup> )	
I-131 (Approx. 8 days)	ND	ND
Cs-134 (Approx. 2 years)	1.7E-01	ND
Cs-137 (Approx. 30 years)	4.4E-01	ND
H-3 (approx. 12yrs)	4.2E-01	1.8E-02
Gross α	ND	ND
Gross β	1.4E+00	3.7E-03
Sr-89 (Approx. 51 days)	ND	ND
Sr-90 (Approx. 29 years)	3.2E-01	3.9E-05

\* O.OE±O is the same as O.O x 10<sup>±0</sup>

\* Nuclide analysis results of I-131, Cs-134, Cs-137 were announced January 11, 2014.

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.  
I-131: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-134: Approx. 1E-2Bq/cm<sup>3</sup>, Cs-137: Approx. 2E-2Bq/cm<sup>3</sup>, Gross α: Approx. 3E-3Bq/cm<sup>3</sup>\*1, Sr-89: Approx. 4E-4Bq/cm<sup>3</sup>

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\*1 The detection limit of Gross α was corrected from approx. 1E-4Bq/cm<sup>3</sup> to 3E-3Bq/cm<sup>3</sup>.

(Evaluation)

H-3, Gross β, and Sr-90 were detected supposedly as a result of this accident.