

Nuclide analysis results of ocean soil

Reference

(Data summarized on January 26)

Place of Sampling	15 km offshore of Hirono-town	3km offshore of Soma city	5km offshore of Soma city	5km offshore of Kashima	
Time of Sampling	Jan 24, 2012 (Not sampled)	Jan 24, 2012 (Not sampled)	Jan 24, 2012 (Not sampled)	Jan 24, 2012 (Not sampled)	
Detected Nuclides (Half-life)	Radioactivity density ( Bq/kg·moist soil)				
I-131 (about 8 days)	-	-	-	-	
Cs-134 (about 2 years)	-	-	-	-	
Cs-137 (about 30 years)	-	-	-	-	

No sampling due to bad weather

## Nuclide analysis results of ocean soil<1/4>

(Data summarized on January 26)

Place of Sampling	3km offshore of Odaka-ku	Iwasawa offshore 3km	15 km offshore of Fukushima Daiichi
Date of sampling	Nov 10, 2011	Nov 18, 2011	Nov 11, 2011
Detected Nuclides (Half-life)	Radioactivity density ( I-131,Cs-134,Cs-137 : Bq/kg· moist soil , Sr-89,Sr-90 : Bq/kg· oven-dry soil)		
I-131 (about 8 days)	ND	ND	ND
Cs-134 (about 2 years)	31	780	110
Cs-137 (about 30 years)	41	960	140
Sr-89 (about 51 days)	-	ND	-
Sr-90 (about 29 years)	ND	ND	ND

The range measured in the ocean near Fukushima Daiichi and Daini Nuclear Power Plants in the past (1999-2008) : ND- 0.17Bq/kg oven-dry soil Source: "Report on the environmental radioactivity measurement around the Nuclear Power Plant (2008)", Committee on the safty technology of Nuclear Power Plants in Fukushima.

\* Radio Active Density " - " means "not applicable".

\* Nuclide analysis results of I-131, Cs-134, and Cs-137 were announced on November 12, 13, and 20.

\* Analysis Institute:Japan Chemical Analysis Center (Sr-89, Sr-90), TEPCO (I-131, Cs-134, Cs-137)

\* In the case the measurement is under the detection threshold, "ND" is marked.

I-131: approx. 10Bq/kg· moist soil ,

Sr-89: approx. 4Bq/kg oven-dry soil, Sr-90: approx. 2Bq/kg oven-dry soil

In addition, the detection threshold is defferent according to the detectors and the sample forms. So, it is possible to detect the nuclide under detection threshold.

(Evaluation)

Sr-89 and Sr-90 were not detected in the sample collected this time.

## Nuclide analysis results of ocean soil<2/4>

(Data summarized on January 26)

Place of Sampling	North of Discharge Channe of 5-6u	Around South Discharge Channel	
Date of sampling	Nov 14, 2011	Nov 14, 2011	
Detected Nuclides (Half-life)	Radioactivity density ( I-131,Cs-134,Cs-137 : Bq/kg· moist soil , Sr-89,Sr-90 : Bq/kg· oven-dry soil)		
I-131 (about 8 days)	ND	ND	
Cs-134 (about 2 years)	1,800	790	
Cs-137 (about 30 years)	2,200	980	
Sr-89 (about 51 days)	ND	ND	
Sr-90 (about 29 years)	1.9	6.1	
The range measured in the ocean near Fukushima Daiichi and Daini Nuclear Power Plants in the past (1999-2008) : ND- 0.17Bq/kg oven-dry soil Source: "Report on the environmental radioactivity measurement around the Nuclear Power Plant (2008)", Committee on the safty technology of Nuclear Power Plants in Fukushima.			

\* Radio Active Density " - " means "not applicable".

\* Nuclide analysis results of I-131, Cs-134, and Cs-137 were announced on November 16.

\* Analysis Institute:Japan Chemical Analysis Center (Sr-89, Sr-90), TEPCO (I-131, Cs-134, Cs-137)

\* In the case the measurement is under the detection threshold, "ND" is marked.

I-131: approx. 14Bq/kg· moist soil ,

Sr-89: approx. 6Bq/kg· oven-dry soil

In addition, the detection threshold is defferent according to the detectors and the sample forms. So, it is possible to detect the nuclide under detection threshold.

(Evaluation)

Sr-90 density detected this time was over the maximum value detected in the ocean near Fukushima Daiichi and Daini Nuclear Power Plants in the past. Therefore, it is considered from the accident.

## Nuclide analysis results of ocean soil<3/4>

(Data summarized on January 26)

Place of Sampling	15 km offshore of Ukedo-gawa	8km offshore of Iwasawa shore	
Date of sampling	Nov 11, 2011	Nov 18, 2011	
Detected Nuclides (Half-life)	Radioactivity density ( I-131,Cs-134,Cs-137 : Bq/kg· moist soil , Sr-89,Sr-90 : Bq/kg· oven-dry soil)		
I-131 (about 8 days)	ND	ND	
Cs-134 (about 2 years)	30	420	
Cs-137 (about 30 years)	40	520	
Sr-89 (about 51 days)	-	-	
Sr-90 (about 29 years)	ND	ND	
The range measured in the ocean near Fukushima Daiichi and Daini Nuclear Power Plants in the past (1999-2008) : ND- 0.17Bq/kg oven-dry soil Source: "Report on the environmental radioactivity measurement around the Nuclear Power Plant (2008)", Committee on the safty technology of Nuclear Power Plants in Fukushima.			

\* Radio Active Density " - " means "not applicable".

\* Nuclide analysis results of I-131, Cs-134, and Cs-137 were announced on November 13, and 20.

\* Analysis Institute:Japan Chemical Analysis Center (Sr-89, Sr-90), TEPCO (I-131, Cs-134, Cs-137)

\* In the case the measurement is under the detection threshold, "ND" is marked.

I-131: approx. 7Bq/kg· moist soil ,

Sr-90: approx. 2Bq/kg· oven-dry soil.

In addition, the detection threshold is defferent according to the detectors and the sample forms. So, it is possible to detect the nuclide under detection threshold.

(Evaluation)

Sr-90 was not detected in the sample collected this time.

## Nuclide analysis results of ocean soil<4/4>

(Data summarized on January 26)

Place of Sampling	3 km offshore of Ena Port	5km offshore of Kashima	
Date of sampling	Nov 07, 2011	Nov 22, 2011	
Detected Nuclides (Half-life)	Radioactivity density ( I-131,Cs-134,Cs-137 : Bq/kg· moist soil , Sr-89,Sr-90 : Bq/kg· oven-dry soil)		
I-131 (about 8 days)	ND	ND	
Cs-134 (about 2 years)	520	44	
Cs-137 (about 30 years)	620	54	
Sr-89 (about 51 days)	ND	ND	
Sr-90 (about 29 years)	ND	ND	
The range measured in the ocean near Fukushima Daiichi and Daini Nuclear Power Plants in the past (1999-2008) : ND- 0.17Bq/kg oven-dry soil Source: "Report on the environmental radioactivity measurement around the Nuclear Power Plant (2008)", Committee on the safty technology of Nuclear Power Plants in Fukushima.			

\* Radio Active Density " - " means "not applicable".

\* Nuclide analysis results of I-131, Cs-134, and Cs-137 were announced on November 9 and 24.

\* Analysis Institute:Japan Chemical Analysis Center (Sr-89, Sr-90), TEPCO (I-131, Cs-134, Cs-137)

\* In the case the measurement is under the detection threshold, "ND" is marked.

I-131: approx. 8Bq/kg· moist soil ,

Sr-89: approx. 4Bq/kg oven-dry soil, Sr-90: approx. 2Bq/kg oven-dry soil

In addition, the detection threshold is defferent according to the detectors and the sample forms. So, it is possible to detect the nuclide under detection threshold.

(Evaluation)

Sr-89 and Sr-90 were not detected in the sample collected this time.