

Result of Pu nuclide analysis in the soil Fukushima Daiichi Nuclear Power Station

1. Measurement Result:

(Unit : Bq/kg·dry soil)

Place of Sampling The Distance from Unit 1-2 Stacks in parentheses.	Date	Pu-238	Pu-239+Pu-240
(1) Ground (WNW approx. 500m) * ¹	Sep 10, 2012	(2.6±0.36) ×10 ⁻¹	(6.1±1.6) ×10 ⁻²
(2) Yachounomori (W approx. 500m)* ¹		(3.1±0.98) ×10 ⁻²	(8.6±1.5) ×10 ⁻²
(3) Around industrial waste treatment facility (SSW approx.		(1.5±0.39) ×10 ⁻¹	N.D. [$<8.5 \times 10^{-2}$]
Domestic soil (1978 – 2008)* ²		N.D. ~ 1.5×10 ⁻¹	N.D. ~ 4.5

[] shows below the detection limit.

*1 Sampling was conducted in the area adjacent to the past sampling location to avoid duplication.

*2 Source: "Environmental Radiation Database"

(Ministry of Education, Culture, Sports, Science and Technology)

2. Analytical Institution: KAKEN Inc.

3. Evaluation:

The densities of Pu-238, Pu-239 and Pu-240 detected on September 10 are the same level as those of the fallouts observed in Japan after the past atmospheric nuclear tests. However, there is a possibility that the higher densities originate from the accident this time, taking the previous analysis results into consideration.

End

Result of Sr nuclide analysis in the soil Fukushima Daiichi Nuclear Power Station

1. Measurement Result:

(Unit : Bq/kg·dry soil)

Place of Sampling The Distance from Unit 1-2 Stacks in parentheses.	Date	Sr-89	Sr-90
(1) Ground (WNW approx. 500m) * ¹	Aug 13, 2012	N.D.	(1.2±0.028) ×10 ²
(2) Yachounomori (W approx. 500m) * ¹		N.D.	(3.2±0.053) ×10 ²
(3) Around industrial waste treatment facility (SSW approx.		N.D.	(4.4±0.071) ×10 ²
The range of the past measurement results (FY2001 - FY2008)*		-	N.D. ~ 4.3

*1 Sampling was conducted in the area adjacent to the past sampling location to avoid duplication.

*2 Source "Report on the environmental radioactivity measurement around the Nuclear Power Plant (2008)", Committee on the safety technology of Nuclear Power Plants in Fukushima.

2. Analytical Institution: KAKEN Inc.

3. Evaluation:

The densities of Sr-90 are higher than those of the fallouts observed in Japan after the past atmospheric nuclear tests. Therefore, there is a possibility that the higher densities originate from the accident this time.

End

Result of Sr nuclide analysis in the soil Fukushima Daiichi Nuclear Power Station

1. Measurement Result:

(Unit : Bq/kg· dry soil)

Place of Sampling The Distance from Unit 1-2 Stacks in parentheses.	Date	Sr-89	Sr-90
(1) Ground (WNW approx. 500m) * ¹	Jul 9, 2012	N.D.	(9.0±0.23) ×10 ¹
(2) Yachounomori (W approx. 500m) * ¹		N.D.	(1.9±0.053) ×10 ²
(3) Around industrial waste treatment facility (SSW approx.		N.D.	(4.6±0.094) ×10 ²
The range of the past measurement results (FY2001 - FY2008)*		-	N.D. ~ 4.3

*1 Sampling was conducted in the area adjacent to the past sampling location to avoid duplication.

*2 Source "Report on the environmental radioactivity measurement around the Nuclear Power Plant (2008)", Committee on the safety technology of Nuclear Power Plants in Fukushima.

2. Analytical Institution: KAKEN Inc.

3. Evaluation:

The densities of Sr-90 are higher than those of the fallouts observed in Japan after the past atmospheric nuclear tests. Therefore, there is a possibility that the higher densities originate from the accident this time.

End