

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 of Sampling	Pu-238	Pu-239+Pu-240
(1) Ground (WNW approx. 500m) ^{*1}	July 9, 2012	(1.5±0.24) ×10 ⁻¹	(1.2±0.21) ×10 ⁻¹
(2) Yachounomori (W approx. 500m) ^{*1}		(5.0±1.4) ×10 ⁻²	(1.3±0.21) ×10 ⁻¹
(3) Around industrial waste treatment facility (SSW approx. 500m) ^{*1}		N.D. [$<6.8 \times 10^{-2}$]	N.D. [$<5.8 \times 10^{-2}$]
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 May 14 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