

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}	Nov 12, 2012	$(1.8 \pm 0.24) \times 10^{-1}$	$(9.5 \pm 1.7) \times 10^{-2}$
(2) Yachounomori (W approx. 500m) ^{*1}		N.D [$< 2.7 \times 10^{-2}$]	$(3.3 \pm 1.0) \times 10^{-2}$
(3) Around industrial waste treatment facility (SSW approx.		N.D [$< 2.2 \times 10^{-2}$]	N.D [$< 2.2 \times 10^{-2}$]
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 January 21 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