

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}	Dec 10, 2012	$(2.7\pm 0.63)\times 10^{-2}$	$(2.7\pm 0.63)\times 10^{-2}$
(2) Yachounomori (W approx. 500m) ^{*1}		N.D [$<2.5\times 10^{-2}$]	$(3.5\pm 0.99)\times 10^{-2}$
(3) Around industrial waste treatment facility (SSW approx.		$(2.2\pm 0.60)\times 10^{-2}$	$(3.3\pm 0.74)\times 10^{-2}$
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 December 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