Uranium Analysis Result in the ocean soil

1. Analysis result

(Unit: Bq/kg·Dry soil)

Sampling spot	Date of sampling/ Analyses organization	U-234	U-235	U-238
North of Discharge Channel of 5-6u of 1F	Sep. 12/ Japan Chemical Analysis Center	(1.4±0.15) ×10 ⁰	N.D. [<1.5×10 ⁻¹]	(1.5±0.17) ×10 ⁰
Around South Discharge Channel of 1F	Sep. 15/ Japan Chemical Analysis Center	(2.3±0.21) ×10 ⁰	N.D. [<1.6×10 ⁻¹]	(2.4±0.21) ×10 ⁰
3km offshore of Iwasawa shore		(6.9±0.46) ×10 ⁰	(2.5±0.72) ×10 ⁻¹	(8.1±0.52) ×10 ⁰
3km offshore of Odaka Ward		$(3.0\pm0.26) \times 10^{0}$	(2.4±0.66) ×10 ⁻¹	(3.6±0.29) ×10 ⁰
Specific activity of natural uranium(Bq/g)		1.2×10 ⁴	5.7×10 ²	1.2×10 ⁴
Abundance ratio of natural uranium(wt%)		0.0054	0.72	99.3

2. Evaluation

We evaluate uranium detected in these samples are as same level as those exist in the natural environment from the reasons below;

- As natural uranium exist under radioactive equilibrium(radioactive concentration is same for U-234 and U-238), for the result of all the samples, and, radioactive concentration for U-234 and U-238 were nearly the same.
- In the case of sample and , abundance ratio of u-235/U-238=0.0073 for U-235 were nearly the same.
- [Sample] U-235:3.1×10⁻⁶g/kg• dry soil(0.25Bq/kg• dry soil) , U-238: 6.5×10^{-4} g/kg• dry soil(8.1Bq/kg• dry soil) , U-235/U-238=0.0048
- [Sample] U-235:3.0×10⁻⁶g/kg• dry soil(0.24Bq/kg• dry soil) , U-238: 2.9×10⁻⁴g/kg• dry soil (3.6Bq/kg• dry soil) , U-235/U-238=0.010 Calculation may differ due to rounding.