

**Nuclide Analysis Results of Fish and Shellfish**  
**<Sampled from the Ocean Area within a 20km Radius of the Fukushima Daiichi Nuclear Power Station>**  
**Samples collected in the first quarter of FY2019**

[Measurement results for Tritium (Half-life: Approx. 12 years) in fish and shellfish]  
 Place of Sampling(Place No.): Around 4km Offshore of Kumagawa (T-S8)

Name of Sample (Region)	Date of Sampling	Tritium concentration (Bq/L)		Tritium concentration (Bq/kg (Raw))		Reference (Sum of Cs-134 and Cs-137) (Bq/kg (Raw))
		Free Water Tritium	Organically Bound Tritium	Free Water Tritium	Organically Bound Tritium	
Flatfish (muscle)	April 10, 2019	0.094	ND(0.27)	0.075	ND(0.039)	ND
Flatfish (muscle)	May 28, 2019	0.096	ND(0.27)	0.074	ND(0.043)	ND
Flatfish (muscle)	June 20, 2019	0.091	ND(0.28)	0.068	ND(0.049)	ND

Reference

	Date of Sampling	Tritium concentration (Bq/L)
Around 4km Offshore of Kumagawa (T-S8) Seawater	April 10, 2019	0.084
	May 27, 2019	0.10
	June 19, 2019	0.075

\*Reference value (on and after April 1, 2012) Sum of radioactivity concentrations for Cs-134 and Cs-137: 100Bq/kg.

\*The tritium analysis was conducted by Kyushu Environmental Evaluation Association.

\*Edible parts (muscles) of fish were used to measure Cs.

\*Free Water Tritium means tritium which is contained in the moisture of fish muscles and the values are compared with tritium concentrations in seawater where fish lives.

Organically Bound Tritium means tritium which is contained in dried fish muscles and the values show tritium concentrations in the vapor generated when dried fish is burned.

\*The measurement results are rounded to two significant digits.

\*ND indicates that a value is less than the detection limit of radioactive concentration. The detection limit is shown in parenthesis.