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 second quarter of FY2019

[Measurement results of Sr-90 (half-life approx. 29 years) in fish]

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			Radioactivity Concentration [Bq/kg(Raw)] (Half-life)	
Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Sr-90 *1 (Approx. 29 years)	Reference [*] 1 (Sum of Cs-134 and Cs-137)
Marbled sole (whole) *3	Around 3km Offshore of Odaka Ward (T-S2)	July 4, 2019	0.61	5.1
Microstomus achne *3 (whole)	Around 2km Offshore of Fukushima Daini NPS(T-S7)	August 6, 2019	0.43	5.4
Japanese angel shark *2 (whole)	August 22, 2019	ND(0.014)	13	
Common skete (whole) *2	Around 10km Offshore of Fukushima Daini (T-B4)	July 16, 2019	0.13	5.6
Marbled sole (whole) *2	Around 10km Offshore of Fukushima Daini (T-B4)	July 16, 2019	ND(0.015)	6.4

^{*1} Edible parts (muscles) of fish were used to measure Cs. Whole fish (except for internal organs) including bones, which are not edible, were used to measure Sr. Reference value (on and after April 1, 2012) Sum of radioactivity concentrations for Cs-134 and Cs-137: 100Bq/kg.

^{*2} The Sr-90 analysis was conducted by KANSO CO., LTD.

^{*3} The Sr-90 analysis was conducted by Kyushu Environmental Evaluation Association.

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[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
		Free Water Tritium	Organically Bound Tritium	Free Water Tritium	Organically Bound Tritium	and Cs-137) (Bq/kg (Raw))
Flatfish ② (muscle)	July 18, 2019	0.083	ND(0.28)	0.065	ND(0.040)	ND
Flatfish ① (muscle)	September 19, 2019	0.089	ND(0.27)	0.071	ND(0.037)	ND

Reference

	Date of Sampling	Tritium concentration (Bq/L)
Around 4km Offshore	July 17, 2019	0.067
of Kumagawa (T-S8)	August 21, 2019	0.077
Seawater	September 18, 2019	0.071

^{*}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.