Reference
September 26, 2018
Tokyo Electric Power Company Holdings, Inc.
Fukushima Daiichi D D Engineering Company

Nuclide Analysis Results of Fish and Shellfish
<Ocean Area Within 20km Radius of Fukushima Daiichi Nuclear Power Station>
Samples collected in the first quarter of FY2018

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

Name of Sample (Region)	Place of Sampling (Place No.)	Date of Sampling	Radioactivity Concentration [Bq/kg(Raw)] (Half-life)	
			Sr-90 *1 (Approx. 29 years)	Reference*1 (Sum of Cs-134 and Cs-137)
Stingray (whole) *2	Around 3km Offshore of Ukedo River (T-S3)	May 11, 2018	0.079	20
Black sea bream (whole) *2	Around 2km Offshore of Kido River (T-S5)	April 10, 2018	0.16	ND
Black sea bream (whole) *2	Around 2km Offshore of Kido River (T-S5)	May 15, 2018	0.12	ND
Stingray (whole) *3	Around 2km Offshore of Fukushima Daini NPS(T-S7)	June 5, 2018	0.0019	11
Marbled sole (whole) *3	Around 4km Offshore of Kumagawa (T-S8)	April 13, 2018	0.21	10

*1 Cs: Edible parts of fish were used for the measurement. Sr: Whole of fish were used for the measurement.

The sum of Cs-134 and Cs-137 radioactivity concentrations as a standard value (since April 1, 2012) is 100Bq per kg.

*The Sr-90 analysis was conducted by *2KANSO CO., LTD. and by *3Kyushu Environmental Evaluation Association.

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[Measurement results of Tritium (half-life approx. 12 years) in fish]
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 13, 2018	0.089	ND(0.27)	0.070	ND(0.040)	ND
Flatfish (muscle)	May 11, 2018	0.070	ND(0.27)	0.055	ND(0.041)	ND
Flatfish (muscle)	June 7, 2018	0.062	ND(0.27)	0.048	ND(0.043)	ND

Reference

	Date of Sampling	Tritium concentration (Bq/L)
Around 4km Offshore of Kumagawa (T-S8) Seawater	April 12, 2018	0.063
	May 10, 2018	0.061
	June 7, 2018	0.063

*The sum of Cs-134 and Cs-137 radioactivity concentrations as a standard value (since April 1, 2012) is 100Bq per kg.

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

*Edible parts of fish were used for the measurement.

*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 calculated to two significant figures.

*ND, not detected, indicates that a value is less than the detection limit of a radioactive concentration. The detection limit is provided in parenthesis.