

Analysis Results of Fish

<Sampled within a 20km Radius of the Fukushima Daiichi Nuclear Power Station> (γ)

(1/2)

Place of Sampling	Name of Sample (Region)	Date of Sampling	Analysis Item		
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))
Around 2km Offshore of Kido River (T-S5)	Japanese angel shark (muscle)	2023/1/12	< 3.6E+00	< 3.9E+00	ND
Around 2km Offshore of Kido River (T-S5)	Common skate (muscle)	2023/1/12	< 3.8E+00	< 2.8E+00	ND
Around 2km Offshore of Kido River (T-S5)	Microstomus achne (muscle)	2023/1/12	< 5.4E+00	< 4.5E+00	ND
Around 2km Offshore of Kido River (T-S5)	Searobin (muscle)	2023/1/12	< 3.1E+00	< 3.5E+00	ND
Around 2km Offshore of 2F Site (T-S7)	Greenling (muscle)	2023/1/12	< 3.2E+00	< 3.5E+00	ND
Around 2km Offshore of 2F Site (T-S7)	Stone flounder (muscle)	2023/1/12	< 3.1E+00	< 4.2E+00	ND
Around 2km Offshore of 2F Site (T-S7)	Black rockfish (muscle)	2023/1/12	< 4.2E+00	< 3.8E+00	ND
Around 2km Offshore of 2F Site (T-S7)	Common skate (muscle)	2023/1/12	< 3.5E+00	< 4.1E+00	ND
Around 2km Offshore of 2F Site (T-S7)	Microstomus achne (muscle)	2023/1/12	< 3.3E+00	< 3.3E+00	ND
Around 2km Offshore of 2F Site (T-S7)	Flatfish (muscle) No.1	2023/1/12	< 5.1E+00	< 5.1E+00	ND

- Half life of each nuclide: Cs-134 (Approx. 2 years), Cs-137 (Approx. 30 years)
- Inequality sign (<: less than) indicates that measurement result is less than the detection limit (ND).
- Reference value (on and after April 1, 2012): Sum of radioactivity concentrations for Cs-134 and Cs-137: 1.0E+02Bq/kg.
- * Analysis was conducted by Tokyo Power Technology Ltd.
- Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10¹" and equals 31. Similarly, "3.1E+00" means "3.1×10⁰" and equals 3.1, and "3.1E-01" means "3.1×10⁻¹" and equals 0.31.

Analysis Results of Fish

<Sampled within a 20km Radius of the Fukushima Daiichi Nuclear Power Station> (γ)

(2/2)

Place of Sampling	Name of Sample (Region)	Date of Sampling	Analysis Item		
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))
Around 2km Offshore of 2F Site (T-S7)	Roundnose flounder (muscle)	2023/1/12	< 3.3E+00	< 3.7E+00	ND

- Half life of each nuclide: Cs-134 (Approx. 2 years), Cs-137 (Approx. 30 years)
- Inequality sign (<: less than) indicates that measurement result is less than the detection limit (ND).
- Reference value (on and after April 1, 2012): Sum of radioactivity concentrations for Cs-134 and Cs-137: 1.0E+02Bq/kg.
- * Analysis was conducted by Tokyo Power Technology Ltd.
- Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10¹" and equals 31.
Similarly, "3.1E+00" means "3.1×10⁰" and equals 3.1, and "3.1E-01" means "3.1×10⁻¹" and equals 0.31.

Analysis Results of Fish

<Sampled within a 20km Radius of the Fukushima Daiichi Nuclear Power Station> (γ)

(1/5)

Place of Sampling	Name of Sample (Region)	Date of Sampling	Analysis Item		
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))
Around 1km Offshore of Ota River (T-S1)	Black rockfish (muscle)	2023/1/19	< 2.7E+00	< 3.1E+00	ND
Around 1km Offshore of Ota River (T-S1)	Flatfish (muscle) No.1	2023/1/19	< 4.0E+00	< 3.5E+00	ND
Around 1km Offshore of Ota River (T-S1)	Flatfish (muscle) No.2	2023/1/19	< 6.3E+00	< 4.1E+00	ND
Around 1km Offshore of Ota River (T-S1)	Marbled sole (muscle)	2023/1/19	< 3.3E+00	< 3.4E+00	ND
Around 3km Offshore of Odaka Ward (T-S2)	Flatfish (muscle) No.1	2023/1/19	< 5.0E+00	< 4.9E+00	ND
Around 3km Offshore of Odaka Ward (T-S2)	Roundnose flounder (muscle)	2023/1/19	< 4.0E+00	< 3.6E+00	ND
Around 3km Offshore of Ukedo River (T-S3)	Flatfish (muscle) No.1	2023/1/13	< 6.1E+00	< 5.2E+00	ND
Around 3km Offshore of Ukedo River (T-S3)	Searobin (muscle)	2023/1/13	< 3.9E+00	< 4.2E+00	ND
Around 3km Offshore of Ukedo River (T-S3)	Roundnose flounder (muscle)	2023/1/13	< 3.3E+00	< 3.9E+00	ND
Around 3km Offshore of Ukedo River (T-S3)	Ridged-eye flounder (muscle)	2023/1/13	< 3.2E+00	< 2.9E+00	ND

- Half life of each nuclide: Cs-134 (Approx. 2 years), Cs-137 (Approx. 30 years)
- Inequality sign (<: less than) indicates that measurement result is less than the detection limit (ND).
- Reference value (on and after April 1, 2012): Sum of radioactivity concentrations for Cs-134 and Cs-137: 1.0E+02Bq/kg.
- * Analysis was conducted by Tokyo Power Technology Ltd.
- Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10¹" and equals 31. Similarly, "3.1E+00" means "3.1×10⁰" and equals 3.1, and "3.1E-01" means "3.1×10⁻¹" and equals 0.31.

Analysis Results of Fish

<Sampled within a 20km Radius of the Fukushima Daiichi Nuclear Power Station> (γ)

(2/5)

Place of Sampling	Name of Sample (Region)	Date of Sampling	Analysis Item		
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))
Around 3km Offshore of 1F Site (T-S4)	Japanese angel shark (muscle)	2023/1/13	< 4.0E+00	5.0E+00	5.0E+00
Around 3km Offshore of 1F Site (T-S4)	Yellow goosefish (whole)	2023/1/13	< 3.8E+00	< 3.7E+00	ND
Around 2km Offshore of Kido River (T-S5)	Japanese angel shark (muscle)	2023/1/20	< 3.5E+00	< 4.3E+00	ND
Around 2km Offshore of Kido River (T-S5)	Yellow goosefish (whole)	2023/1/20	< 3.6E+00	< 3.3E+00	ND
Around 2km Offshore of Kido River (T-S5)	Black sea bream (muscle)	2023/1/20	< 3.2E+00	< 3.7E+00	ND
Around 2km Offshore of Kido River (T-S5)	Common skete (muscle)	2023/1/20	< 2.9E+00	< 3.2E+00	ND
Around 2km Offshore of Kido River (T-S5)	Microstomus achne (muscle)	2023/1/20	< 2.5E+00	< 3.9E+00	ND
Around 2km Offshore of Kido River (T-S5)	Flatfish (muscle) No.1	2023/1/20	< 5.2E+00	< 5.5E+00	ND
Around 2km Offshore of Kido River (T-S5)	Searobin (muscle)	2023/1/20	< 3.1E+00	< 3.7E+00	ND
Around 2km Offshore of Kido River (T-S5)	Marbled sole (muscle)	2023/1/20	< 4.2E+00	< 3.7E+00	ND

- Half life of each nuclide: Cs-134 (Approx. 2 years), Cs-137 (Approx. 30 years)
- Inequality sign (<: less than) indicates that measurement result is less than the detection limit (ND).
- Reference value (on and after April 1, 2012): Sum of radioactivity concentrations for Cs-134 and Cs-137: 1.0E+02Bq/kg.
- * Analysis was conducted by Tokyo Power Technology Ltd.
- Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10¹" and equals 31. Similarly, "3.1E+00" means "3.1×10⁰" and equals 3.1, and "3.1E-01" means "3.1×10⁻¹" and equals 0.31.

Analysis Results of Fish

<Sampled within a 20km Radius of the Fukushima Daiichi Nuclear Power Station> (γ)

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Place of Sampling	Name of Sample (Region)	Date of Sampling	Analysis Item		
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))
Around 2km Offshore of 2F Site (T-S7)	Greenling (muscle)	2023/1/20	< 3.2E+00	< 4.0E+00	ND
Around 2km Offshore of 2F Site (T-S7)	Common skate (muscle)	2023/1/20	< 3.6E+00	< 3.4E+00	ND
Around 2km Offshore of 2F Site (T-S7)	Microstomus achne (muscle)	2023/1/20	< 3.5E+00	< 3.4E+00	ND
Around 2km Offshore of 2F Site (T-S7)	Flatfish (muscle) No.1	2023/1/20	< 5.9E+00	< 5.3E+00	ND
Around 4km Offshore of Kuma River (T-S8)	Stone flounder (muscle)	2023/1/13	< 3.7E+00	< 3.9E+00	ND
Around 4km Offshore of Kuma River (T-S8)	Japanese angel shark (muscle)	2023/1/13	< 3.6E+00	< 4.0E+00	ND
Around 4km Offshore of Kuma River (T-S8)	Yellow goosefish (whole)	2023/1/13	< 3.8E+00	< 3.8E+00	ND
Around 4km Offshore of Kuma River (T-S8)	Common skate (muscle)	2023/1/13	< 3.3E+00	< 3.6E+00	ND
Around 4km Offshore of Kuma River (T-S8)	Flatfish (muscle) No.1	2023/1/13	< 3.2E+00	< 3.5E+00	ND
Around 4km Offshore of Kuma River (T-S8)	Searobin (muscle)	2023/1/13	< 3.6E+00	< 3.4E+00	ND

- Half life of each nuclide: Cs-134 (Approx. 2 years), Cs-137 (Approx. 30 years)
- Inequality sign (<: less than) indicates that measurement result is less than the detection limit (ND).
- Reference value (on and after April 1, 2012): Sum of radioactivity concentrations for Cs-134 and Cs-137: 1.0E+02Bq/kg.
- * Analysis was conducted by Tokyo Power Technology Ltd.
- Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10¹" and equals 31. Similarly, "3.1E+00" means "3.1×10⁰" and equals 3.1, and "3.1E-01" means "3.1×10⁻¹" and equals 0.31.

Analysis Results of Fish

<Sampled within a 20km Radius of the Fukushima Daiichi Nuclear Power Station> (γ)

(4/5)

Place of Sampling	Name of Sample (Region)	Date of Sampling	Analysis Item		
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))
Around 4km Offshore of Kuma River (T-S8)	Flathead (muscle)	2023/1/13	< 4.0E+00	< 3.3E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Lepidotrigla microptena (muscle)	2023/1/26	< 3.5E+00	< 4.6E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Common skate (muscle)	2023/1/26	< 3.0E+00	< 4.8E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Sea bass (muscle)	2023/1/26	< 3.4E+00	< 3.4E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Flatfish (muscle) No.1	2023/1/26	< 3.8E+00	< 2.8E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Flatfish (muscle) No.2	2023/1/26	< 5.7E+00	< 5.2E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Smooth dogfish (muscle)	2023/1/26	< 4.0E+00	< 3.9E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Roundnose flounder (muscle)	2023/1/26	< 2.7E+00	< 3.0E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Ridged-eye flounder (muscle)	2023/1/26	< 3.3E+00	< 3.5E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Lepidotrigla microptena (muscle)	2023/1/26	< 3.5E+00	< 4.9E+00	ND

- Half life of each nuclide: Cs-134 (Approx. 2 years), Cs-137 (Approx. 30 years)
- Inequality sign (<: less than) indicates that measurement result is less than the detection limit (ND).
- Reference value (on and after April 1, 2012): Sum of radioactivity concentrations for Cs-134 and Cs-137: 1.0E+02Bq/kg.
- * Analysis was conducted by Tokyo Power Technology Ltd.
- Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10¹" and equals 31. Similarly, "3.1E+00" means "3.1×10⁰" and equals 3.1, and "3.1E-01" means "3.1×10⁻¹" and equals 0.31.

Analysis Results of Fish

<Sampled within a 20km Radius of the Fukushima Daiichi Nuclear Power Station> (γ)

(5/5)

Place of Sampling	Name of Sample (Region)	Date of Sampling	Analysis Item		
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))
Around 18km Offshore of Ukedo River (T-B2)	Common skete (muscle)	2023/1/26	< 4.2E+00	< 3.2E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Sea bass (muscle)	2023/1/26	< 3.2E+00	< 3.5E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Flatfish (muscle) No.1	2023/1/26	< 4.0E+00	< 3.7E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Flatfish (muscle) No.2	2023/1/26	< 6.0E+00	< 5.5E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Smooth dogfish (muscle)	2023/1/26	< 4.1E+00	< 3.7E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Littlemouth flounder (muscle)	2023/1/26	< 3.5E+00	< 3.1E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Roundnose flounder (muscle)	2023/1/26	< 3.9E+00	< 4.1E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Ridged-eye flounder (muscle)	2023/1/26	< 3.3E+00	< 3.1E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Willowy flounder (muscle)	2023/1/26	< 3.9E+00	< 4.0E+00	ND

- Half life of each nuclide: Cs-134 (Approx. 2 years), Cs-137 (Approx. 30 years)
- Inequality sign (<: less than) indicates that measurement result is less than the detection limit (ND).
- Reference value (on and after April 1, 2012): Sum of radioactivity concentrations for Cs-134 and Cs-137: 1.0E+02Bq/kg.
- * Analysis was conducted by Tokyo Power Technology Ltd.
- Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10¹" and equals 31. Similarly, "3.1E+00" means "3.1×10⁰" and equals 3.1, and "3.1E-01" means "3.1×10⁻¹" and equals 0.31.

Analysis Results of Fish <Sampled within a 20km Radius of the Fukushima Daiichi Nuclear Power Station> (H-3)

Place of Sampling	Name of Sample (Region)	Date of Sampling	Analysis Item				Reference Cs (Sum) (Bq/kg(Raw))	Name of Sample	Date of Sampling	Reference H-3 (Bq/L)
			H-3(Bq/L)		H-3(Bq/kg(Raw))					
			Free Water Tritium	Organically Bound Tritium	Free Water Tritium	Organically Bound Tritium				
Around 1km Offshore of Ota River (T-S1) *1	Flatfish (muscle)	2022/5/11	1.1E-01	- *3	8.7E-02	- *3	ND	Seawater	2022/5/10	7.7E-02
Around 3km Offshore of Odaka Ward (T-S2) *1	Flatfish (muscle)	2022/5/11	< 5.6E-02	< 2.7E-01	< 4.3E-02	< 4.3E-02	ND	Seawater	2022/5/10	< 6.5E-02
Around 3km Offshore of Ukedo River (T-S3) *1	Flatfish (muscle)	2022/5/12	1.1E-01	< 2.7E-01	8.0E-02	< 4.6E-02	ND	Seawater	2022/5/11	6.7E-02
Around 3km Offshore of 1F Site (T-S4) *1	Flatfish (muscle)	2022/5/12	5.3E-02	< 2.7E-01	4.0E-02	< 4.2E-02	ND	Seawater	2022/5/11	< 6.7E-02
Around 2km Offshore of Kido River (T-S5) *1	-	-	-	-	-	-	-	Seawater	-	-
Around 2km Offshore of 2F Site (T-S7)	-	-	-	-	-	-	-	Seawater	-	-
Around 4km Offshore of Kuma River (T-S8) *1	Flatfish (muscle)	2022/5/10	5.7E-02	< 2.7E-01	4.4E-02	< 4.3E-02	ND	Seawater	2022/5/9	7.0E-02
Around 15km Offshore of Odaka Ward (T-B1)	Flatfish (muscle)	2022/5/17	- *3	- *3	- *3	- *3	ND	Seawater	2022/5/17	< 3.2E-01
Around 18km Offshore of Ukedo River (T-B2)	Microstomus achne (muscle)	2022/5/17	- *3	- *3	- *3	- *3	ND	Seawater	2022/5/17	< 3.2E-01
Around 10km Offshore of 1F Site (T-B3)	-	-	-	-	-	-	-	Seawater	-	-
Around 10km Offshore of 2F Site (T-B4)	-	-	-	-	-	-	-	Seawater	-	-
<ul style="list-style-type: none"> · Seawater is sampled from the surface layer. · Half life of each nuclide: H-3 (Approx. 12 years), Cs-134 (Approx. 2 years), Cs-137 (Approx. 30 years) · Inequality sign (<: less than) indicates that measurement result is less than the detection limit (ND). · "-" indicates that the sampling was stopped or samples could not be collected, or the analysis was stopped due to lack of samples. · Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10¹" and equals 31. Similarly, "3.1E+00" means "3.1×10⁰" and equals 3.1, and "3.1E-01" means "3.1×10⁻¹" and equals 0.31. · Reference value (on and after April 1, 2012): Sum of radioactivity concentrations for Cs-134 and Cs-137: 1.0E+02Bq/kg. · Free Water Tritium means tritium which exists in the tissues of plants and animals as water and is discharged from tissues in the same manner as water. · Organically Bound Tritium means tritium which organically bonds with protein etc. in the tissues of plants and animals and is taken into the tissues, and is discharged from the tissues through cellular metabolism. · Data other than organically bound H-3 of T-S2, T-S3 and T-S4 have already been released. 								WHO Guidelines for Drinking-water Quality ^{*2}		1.0E+04

*1 Analysed by KAKEN Co., Ltd. or Kyushu Environmental Evaluation Assosiation
*2 Guideline level for H-3 in WHO Guidelines for Drinking-water Quality
· For the evaluation of the analysis results, please refer to the "Status of the Fukushima Daiichi NPS (Daily Report)"(Japanese only).
<https://www.tepco.co.jp/press/report/>
*3 Analysis was stopped since sufficient samples did not remain available for re-analysis as required pursuant to the improved procedure, which was revised in August 2022.