

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

(1/6)

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)	Stingray (muscle)	2023/2/9	< 3.5E+00	< 3.9E+00	ND
Around 1km Offshore of Ota River (T-S1)	Black rockfish (muscle)	2023/2/9	< 3.1E+00	< 3.4E+00	ND
Around 1km Offshore of Ota River (T-S1)	Marbled sole (muscle)	2023/2/9	< 3.6E+00	< 3.4E+00	ND
Around 1km Offshore of Ota River (T-S1)	Roundnose flounder (muscle)	2023/2/9	< 3.3E+00	< 3.8E+00	ND
Around 1km Offshore of Ota River (T-S1)	Ridged-eye flounder (muscle)	2023/2/9	< 3.0E+00	< 3.7E+00	ND
Around 3km Offshore of Odaka Ward (T-S2)	Marbled sole (muscle)	2023/2/9	< 3.3E+00	< 3.5E+00	ND
Around 3km Offshore of Odaka Ward (T-S2)	Roundnose flounder (muscle)	2023/2/9	< 3.4E+00	< 3.0E+00	ND
Around 3km Offshore of Ukedo River (T-S3)	Japanese angel shark (muscle)	2023/2/10	< 3.1E+00	3.7E+00	3.7E+00
Around 3km Offshore of Ukedo River (T-S3)	Common skete (muscle)	2023/2/10	< 4.3E+00	< 3.9E+00	ND
Around 3km Offshore of Ukedo River (T-S3)	Marbled sole (muscle)	2023/2/10	< 2.7E+00	< 3.8E+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)

(2/6)

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)	Common skete (muscle)	2023/2/10	< 3.3E+00	< 4.1E+00	ND
Around 3km Offshore of 1F Site (T-S4)	Flatfish (muscle) No.1	2023/2/10	< 3.3E+00	< 3.5E+00	ND
Around 3km Offshore of 1F Site (T-S4)	Searobin (muscle)	2023/2/10	< 4.2E+00	< 3.3E+00	ND
Around 2km Offshore of Kido River (T-S5)	Common skete (muscle)	2023/2/24	< 3.8E+00	< 4.0E+00	ND
Around 2km Offshore of Kido River (T-S5)	Microstomus achne (muscle)	2023/2/24	< 3.2E+00	< 2.7E+00	ND
Around 2km Offshore of Kido River (T-S5)	Flatfish (muscle) No.1	2023/2/24	< 3.3E+00	< 3.4E+00	ND
Around 2km Offshore of Kido River (T-S5)	Red sea bream (muscle)	2023/2/24	< 3.4E+00	< 4.0E+00	ND
Around 2km Offshore of Kido River (T-S5)	Roundnose flounder (muscle)	2023/2/24	< 4.0E+00	< 3.3E+00	ND
Around 2km Offshore of 2F Site (T-S7)	Microstomus achne (muscle)	2023/2/24	< 4.0E+00	< 3.9E+00	ND
Around 2km Offshore of 2F Site (T-S7)	Flatfish (muscle) No.1	2023/2/24	< 3.5E+00	< 3.1E+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)

(3/6)

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)	2023/2/24	< 3.9E+00	< 3.4E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Greenling (muscle)	2023/2/28	< 4.3E+00	< 3.5E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Lepidotrigla microptena (muscle)	2023/2/28	< 3.5E+00	< 3.5E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Yellow goosfish (whole)	2023/2/28	< 3.5E+00	< 3.8E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Common skete (muscle)	2023/2/28	< 2.9E+00	< 3.6E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Sea bass (muscle)	2023/2/28	< 3.8E+00	< 4.5E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Microstomus achne (muscle)	2023/2/28	< 3.4E+00	< 3.3E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Flatfish (muscle) No.1	2023/2/28	< 5.1E+00	< 5.7E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Flatfish (muscle) No.2	2023/2/28	< 3.4E+00	< 3.8E+00	ND
Around 15km Offshore of Odaka Ward (T-B1)	Roundnose flounder (muscle)	2023/2/28	< 3.3E+00	< 3.1E+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)

(4/6)

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)	Lepidotrigla microptena (muscle)	2023/2/28	< 4.1E+00	< 3.8E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Yellow goosfish (whole)	2023/2/28	< 4.2E+00	< 3.6E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Sea bass (muscle)	2023/2/28	< 3.3E+00	< 3.3E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Flatfish (muscle) No.1	2023/2/28	< 3.9E+00	< 3.7E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Chub mackerel (muscle)	2023/2/28	< 3.4E+00	< 3.3E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Roundnose flounder (muscle)	2023/2/28	< 3.7E+00	< 3.1E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Ridged-eye flounder (muscle)	2023/2/28	< 3.2E+00	< 3.3E+00	ND
Around 18km Offshore of Ukedo River (T-B2)	Willow flounder (muscle)	2023/2/28	< 3.5E+00	< 3.7E+00	ND
Around 10km Offshore of 1F Site (T-B3)	Lepidotrigla microptena (muscle)	2023/2/22	< 4.7E+00	< 4.0E+00	ND
Around 10km Offshore of 1F Site (T-B3)	Black rockfish (muscle)	2023/2/22	< 3.0E+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)

(5/6)

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 10km Offshore of 1F Site (T-B3)	Common skete (muscle)	2023/2/22	< 3.7E+00	< 3.4E+00	ND
Around 10km Offshore of 1F Site (T-B3)	Takifugu snyderi (muscle)	2023/2/22	< 3.6E+00	< 3.4E+00	ND
Around 10km Offshore of 1F Site (T-B3)	Sea bass (muscle)	2023/2/22	< 3.7E+00	< 2.9E+00	ND
Around 10km Offshore of 1F Site (T-B3)	Flatfish (muscle) No.1	2023/2/22	< 3.4E+00	< 4.8E+00	ND
Around 10km Offshore of 1F Site (T-B3)	Searobin (muscle)	2023/2/22	< 2.9E+00	< 3.8E+00	ND
Around 10km Offshore of 1F Site (T-B3)	Smooth dogfish (muscle)	2023/2/22	< 3.6E+00	< 3.7E+00	ND
Around 10km Offshore of 1F Site (T-B3)	Red sea bream (muscle)	2023/2/22	< 3.3E+00	< 3.5E+00	ND
Around 10km Offshore of 1F Site (T-B3)	Roundnose flounder (muscle)	2023/2/22	< 3.5E+00	< 3.2E+00	ND
Around 10km Offshore of 2F Site (T-B4)	Lepidotrigla microptena (muscle)	2023/2/22	< 3.1E+00	< 3.9E+00	ND
Around 10km Offshore of 2F Site (T-B4)	Yellow goosefish (whole)	2023/2/22	< 3.9E+00	< 3.9E+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)

(6/6)

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 10km Offshore of 2F Site (T-B4)	Takifugu snyderi (muscle)	2023/2/22	< 3.5E+00	< 3.1E+00	ND
Around 10km Offshore of 2F Site (T-B4)	Sea bass (muscle)	2023/2/22	< 3.3E+00	< 3.1E+00	ND
Around 10km Offshore of 2F Site (T-B4)	Pointhead flounder (muscle)	2023/2/22	< 3.8E+00	< 3.4E+00	ND
Around 10km Offshore of 2F Site (T-B4)	Microstomus achne (muscle)	2023/2/22	< 3.1E+00	< 3.9E+00	ND
Around 10km Offshore of 2F Site (T-B4)	Flatfish (muscle) No.1	2023/2/22	< 3.7E+00	< 4.0E+00	ND
Around 10km Offshore of 2F Site (T-B4)	Flatfish (muscle) No.2	2023/2/22	< 6.3E+00	< 5.1E+00	ND
Around 10km Offshore of 2F Site (T-B4)	Searobin (muscle)	2023/2/22	< 3.3E+00	< 3.2E+00	ND
Around 10km Offshore of 2F Site (T-B4)	Smooth dogfish (muscle)	2023/2/22	< 3.1E+00	< 3.8E+00	ND
Around 10km Offshore of 2F Site (T-B4)	Red sea bream (muscle)	2023/2/22	< 3.8E+00	< 3.5E+00	ND
Around 10km Offshore of 2F Site (T-B4)	Ridged-eye flounder (muscle)	2023/2/22	< 3.9E+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)

(1/1)

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)	Sea bass (muscle)	2023/3/10	< 3.8E+00	< 4.2E+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) *2	Flatfish (muscle)	2022/9/30	1.1E-01	< 2.4E-01	8.5E-02	< 2.8E-02	ND	Seawater	2022/9/29	1.1E-01
Around 3km Offshore of Odaka Ward (T-S2) *2	—	—	—	—	—	—	—	Seawater	2022/9/29	9.8E-02
Around 3km Offshore of Ukedo River (T-S3) *2	—	—	—	—	—	—	—	Seawater	2022/9/6	1.5E-01
Around 3km Offshore of 1F Site (T-S4) *2	—	—	—	—	—	—	—	Seawater	2022/9/6	9.3E-02
Around 2km Offshore of Kido River (T-S5) *2	Flatfish (muscle)	2022/9/15	< 7.5E-02	< 2.7E-01	< 5.8E-02	< 3.8E-02	ND	Seawater	2022/9/14	1.2E-01
Around 2km Offshore of 2F Site (T-S7) *2	Flatfish (muscle)	2022/9/15	— *4	— *4	— *4	— *4	ND	Seawater	2022/9/14	< 3.2E-01
Around 4km Offshore of Kuma River (T-S8) *1	Flatfish (muscle)	2022/9/13	8.6E-02	< 2.7E-01	6.7E-02	< 4.1E-02	ND	Seawater	2022/9/12	9.3E-02
Around 15km Offshore of Odaka Ward (T-B1)	—	—	—	—	—	—	—	Seawater	2022/9/13	< 3.2E-01
Around 18km Offshore of Ukedo River (T-B2)	—	—	—	—	—	—	—	Seawater	2022/9/13	< 3.2E-01
Around 10km Offshore of 1F Site (T-B3)	—	—	—	—	—	—	—	Seawater	2022/9/27	< 3.3E-01
Around 10km Offshore of 2F Site (T-B4)	—	—	—	—	—	—	—	Seawater	2022/9/27	< 3.3E-01
<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. • For the evaluation of the analysis results, please refer to the "Status of the Fukushima Daiichi NPS (Daily Report)"(in Japanese only). https://www.tepco.co.jp/press/report/ 									WHO Guidelines for Drinking-water Quality ^{*3}	1.0E+04

*1 Analysed by Kyushu Environmental Evaluation Assosiation

*2 Analysed by KAKEN Co., Ltd.

*3 Guideline level for H-3 in WHO Guidelines for Drinking-water Quality

*4 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.

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) *2	Flatfish (muscle)	2022/11/9	under analysis	under analysis	under analysis	under analysis	ND	Seawater	2022/11/8	1.3E-01
Around 3km Offshore of Odaka Ward (T-S2) *2	Flatfish (muscle)	2022/11/9	1.6E-01	< 2.6E-01	1.2E-01	< 3.8E-02	ND	Seawater	2022/11/8	1.4E-01
Around 3km Offshore of Ukedo River (T-S3) *2	Flatfish (muscle)	2022/11/17	under analysis	under analysis	under analysis	under analysis	ND	Seawater	2022/11/16	1.2E-01
Around 3km Offshore of 1F Site (T-S4) *2	Flatfish (muscle)	2022/11/17	under analysis	under analysis	under analysis	under analysis	ND	Seawater	2022/11/16	< 7.1E-02
Around 2km Offshore of Kido River (T-S5) *2	Flatfish (muscle)	2022/11/9	under analysis	under analysis	under analysis	under analysis	ND	Seawater	2022/11/8	1.5E-01
Around 2km Offshore of 2F Site (T-S7) *1	Flatfish (muscle)	2022/11/9	6.9E-02	< 2.8E-01	5.2E-02	< 4.3E-02	ND	Seawater	2022/11/8	< 3.1E-01
Around 4km Offshore of Kuma River (T-S8) *1	Flatfish (muscle)	2022/12/8	under analysis	under analysis	under analysis	under analysis	ND	Seawater	2022/12/7	6.3E-02
Around 15km Offshore of Odaka Ward (T-B1) *2	Flatfish (muscle)	2022/12/6	under analysis	under analysis	under analysis	under analysis	ND	Seawater	2022/12/6	< 3.2E-01
Around 18km Offshore of Ukedo River (T-B2)	—	—	—	—	—	—	—	Seawater	2022/12/6	< 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. • For the evaluation of the analysis results, please refer to the "Status of the Fukushima Daiichi NPS (Daily Report)"(in Japanese only). https://www.tepco.co.jp/press/report/ 									WHO Guidelines for Drinking-water Quality ^{*3}	1.0E+04

*1 Analysed by Kyushu Environmental Evaluation Assosiation

*2 Analysed by KAKEN Co., Ltd.

*3 Guideline level for H-3 in WHO Guidelines for Drinking-water Quality