

Analysis Results of Fish

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

(1/7)

Place of Sampling	Name of Sample (Region)	Date of Sampling	Analysis Item			Analysis Laboratory
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))	
Around 1km Offshore of Ota River (T-S1)	Lepidotrigla microptena (muscle)	2023/3/24	< 3.4E+00	< 3.9E+00	ND	Tokyo Power Technology Ltd.
Around 1km Offshore of Ota River (T-S1)	Black sea bream (muscle)	2023/3/24	< 4.1E+00	< 4.0E+00	ND	Tokyo Power Technology Ltd.
Around 1km Offshore of Ota River (T-S1)	Flatfish (muscle) No.1	2023/3/24	< 4.5E+00	< 4.9E+00	ND	KAKEN Co., Ltd.
Around 1km Offshore of Ota River (T-S1)	Smooth dogfish (muscle)	2023/3/24	< 3.1E+00	< 3.6E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of Odaka Ward (T-S2)	Marbled sole (muscle)	2023/3/24	< 3.4E+00	< 3.9E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of Odaka Ward (T-S2)	Roundnose flounder (muscle)	2023/3/24	< 4.1E+00	< 3.9E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of Ukedo River (T-S3)	Microstomus achne (muscle)	2023/3/23	< 3.6E+00	< 3.8E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of Ukedo River (T-S3)	Flatfish (muscle) No.1	2023/3/23	< 5.3E+00	< 4.3E+00	ND	KAKEN Co., Ltd.
Around 3km Offshore of Ukedo River (T-S3)	Marbled sole (muscle)	2023/3/23	< 3.1E+00	< 3.4E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of 1F Site (T-S4)	Japanese angel shark (muscle)	2023/3/23	< 3.8E+00	1.1E+01	1.1E+01	Tokyo Power Technology Ltd.

- 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.
- 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			Analysis Laboratory
			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)	2023/3/23	< 3.7E+00	< 3.4E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of 1F Site (T-S4)	Flatfish (muscle) No.1	2023/3/23	< 6.5E+00	< 6.1E+00	ND	KAKEN Co., Ltd.
Around 3km Offshore of 1F Site (T-S4)	Searobin (muscle)	2023/3/23	< 3.6E+00	< 3.3E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of 1F Site (T-S4)	Marbled sole (muscle)	2023/3/23	< 3.6E+00	< 4.3E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of 1F Site (T-S4)	Roundnose flounder (muscle)	2023/3/23	< 3.3E+00	< 3.1E+00	ND	Tokyo Power Technology Ltd.
Around 2km Offshore of Kido River (T-S5)	Japanese angel shark (muscle)	2023/3/16	< 4.0E+00	4.1E+00	4.1E+00	Tokyo Power Technology Ltd.
Around 2km Offshore of Kido River (T-S5)	Common skete (muscle)	2023/3/16	< 3.6E+00	< 3.4E+00	ND	Tokyo Power Technology Ltd.
Around 2km Offshore of Kido River (T-S5)	Microstomus achne (muscle)	2023/3/16	< 3.1E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.
Around 2km Offshore of Kido River (T-S5)	Marbled sole (muscle)	2023/3/16	< 3.8E+00	< 3.4E+00	ND	Tokyo Power Technology Ltd.
Around 2km Offshore of 2F Site (T-S7)	Common skete (muscle)	2023/3/16	< 3.1E+00	< 3.6E+00	ND	Tokyo Power Technology Ltd.

- 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.
- 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			Analysis Laboratory
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))	
Around 2km Offshore of 2F Site (T-S7)	Red sea bream (muscle)	2023/3/16	< 2.7E+00	< 3.4E+00	ND	Tokyo Power Technology Ltd.
Around 4km Offshore of Kuma River (T-S8)	Greenling (muscle)	2023/3/23	< 3.7E+00	< 3.6E+00	ND	Tokyo Power Technology Ltd.
Around 4km Offshore of Kuma River (T-S8)	Common skete (muscle)	2023/3/23	< 3.5E+00	< 3.9E+00	ND	Tokyo Power Technology Ltd.
Around 4km Offshore of Kuma River (T-S8)	Microstomus achne (muscle)	2023/3/23	< 3.1E+00	< 3.8E+00	ND	Tokyo Power Technology Ltd.
Around 4km Offshore of Kuma River (T-S8)	Marbled sole (muscle)	2023/3/23	< 3.9E+00	< 3.3E+00	ND	Tokyo Power Technology Ltd.
Around 4km Offshore of Kuma River (T-S8)	Roundnose flounder (muscle)	2023/3/23	< 2.9E+00	< 3.6E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Lepidotrigla microptena (muscle)	2023/3/28	< 3.2E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Yellow goosfish (whole)	2023/3/28	< 3.2E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Common skete (muscle)	2023/3/28	< 3.4E+00	< 3.2E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Sea bass (muscle)	2023/3/28	< 3.3E+00	4.6E+00	4.6E+00	Tokyo Power Technology Ltd.

- 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.
- 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			Analysis Laboratory
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))	
Around 15km Offshore of Odaka Ward (T-B1)	Pointhead flounder (muscle)	2023/3/28	< 2.8E+00	< 3.1E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Microstomus achne (muscle)	2023/3/28	< 3.2E+00	< 4.0E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Flatfish (muscle) No.1	2023/3/28	< 3.9E+00	< 3.6E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Flatfish (muscle) No.2	2023/3/28	< 6.2E+00	< 4.6E+00	ND	KAKEN Co., Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Searobin (muscle)	2023/3/28	< 3.9E+00	< 3.6E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Marbled sole (muscle)	2023/3/28	< 3.1E+00	< 3.3E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Red sea bream (muscle)	2023/3/28	< 2.8E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Roundnose flounder (muscle)	2023/3/28	< 4.0E+00	< 3.0E+00	ND	Tokyo Power Technology Ltd.
Around 18km Offshore of Ukedo River (T-B2)	Lepidotrigla microptena (muscle)	2023/3/28	< 3.1E+00	< 3.8E+00	ND	Tokyo Power Technology Ltd.
Around 18km Offshore of Ukedo River (T-B2)	Yellow goosfish (whole)	2023/3/28	< 3.7E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.

• 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.

• 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			Analysis Laboratory
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))	
Around 18km Offshore of Ukedo River (T-B2)	Flatfish (muscle) No.1	2023/3/28	< 3.4E+00	< 3.3E+00	ND	Tokyo Power Technology Ltd.
Around 18km Offshore of Ukedo River (T-B2)	Flatfish (muscle) No.2	2023/3/28	< 5.8E+00	< 5.3E+00	ND	KAKEN Co., Ltd.
Around 18km Offshore of Ukedo River (T-B2)	Smooth dogfish (muscle)	2023/3/28	< 3.6E+00	< 3.3E+00	ND	Tokyo Power Technology Ltd.
Around 18km Offshore of Ukedo River (T-B2)	Roundnose flounder (muscle)	2023/3/28	< 3.3E+00	< 3.3E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Lepidotrigla microptena (muscle)	2023/3/20	< 3.5E+00	< 3.9E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Common skete (muscle)	2023/3/20	< 3.5E+00	< 3.8E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Takifugu snyderi (muscle)	2023/3/20	< 3.5E+00	< 3.3E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Sea bass (muscle)	2023/3/20	< 2.9E+00	< 3.4E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Crimson sea bream (muscle)	2023/3/20	< 3.2E+00	< 3.1E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Microstomus achne (muscle)	2023/3/20	< 4.2E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.

- 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.
- 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			Analysis Laboratory
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))	
Around 10km Offshore of 1F Site (T-B3)	Flatfish (muscle) No.1	2023/3/20	< 3.7E+00	< 3.9E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Flatfish (muscle) No.2	2023/3/20	< 4.5E+00	< 4.8E+00	ND	KAKEN Co., Ltd.
Around 10km Offshore of 1F Site (T-B3)	Searobin (muscle)	2023/3/20	< 3.0E+00	< 3.2E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Smooth dogfish (muscle)	2023/3/20	< 3.6E+00	< 4.0E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Marbled sole (muscle)	2023/3/20	< 3.4E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Roundnose flounder (muscle)	2023/3/20	< 3.4E+00	< 3.8E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Ridged-eye flounder (muscle)	2023/3/20	< 4.1E+00	< 3.6E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 2F Site (T-B4)	Lepidotrigla microptena (muscle)	2023/3/20	< 2.5E+00	< 3.8E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 2F Site (T-B4)	Common skete (muscle)	2023/3/20	< 3.7E+00	< 4.1E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 2F Site (T-B4)	Takifugu snyderi (muscle)	2023/3/20	< 3.2E+00	< 3.4E+00	ND	Tokyo Power Technology Ltd.

- 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.
- 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)

(7/7)

Place of Sampling	Name of Sample (Region)	Date of Sampling	Analysis Item			Analysis Laboratory
			Cs-134 (Bq/kg(Raw))	Cs-137 (Bq/kg(Raw))	Cs (Sum) (Bq/kg(Raw))	
Around 10km Offshore of 2F Site (T-B4)	Sea bass (muscle)	2023/3/20	< 3.9E+00	< 3.8E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 2F Site (T-B4)	Pointhead flounder (muscle)	2023/3/20	< 3.5E+00	< 3.8E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 2F Site (T-B4)	Flatfish (muscle) No.1	2023/3/20	< 4.1E+00	< 3.2E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 2F Site (T-B4)	Flatfish (muscle) No.2	2023/3/20	< 5.5E+00	< 4.8E+00	ND	KAKEN Co., Ltd.
Around 10km Offshore of 2F Site (T-B4)	Roundnose flounder (muscle)	2023/3/20	< 4.0E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 2F Site (T-B4)	Ridged-eye flounder (muscle)	2023/3/20	< 3.3E+00	< 3.4E+00	ND	Tokyo Power Technology Ltd.

- 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.
- 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))	Analysis Laboratory	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)	—	—	—	—	—	—	—	Seawater	2022/10/6	9.4E-02	
Around 3km Offshore of Odaka Ward (T-S2)	Flatfish (muscle)	2022/10/7	< 7.4E-02	< 2.9E-01	< 5.8E-02	< 3.8E-02	ND	KAKEN Co., Ltd.	2022/10/6	8.2E-02	
Around 3km Offshore of Ukedo River (T-S3)	Flatfish (muscle)	2022/10/20	< 7.1E-02	< 2.5E-01	< 5.6E-02	< 3.3E-02	ND	KAKEN Co., Ltd.	2022/10/19	9.7E-02	
Around 3km Offshore of 1F Site (T-S4)	Flatfish (muscle)	2022/10/20	< 7.3E-02	< 2.5E-01	< 5.8E-02	< 3.3E-02	ND	KAKEN Co., Ltd.	2022/10/19	9.4E-02	
Around 2km Offshore of Kido River (T-S5)	Flatfish (muscle)	2022/10/13	< 7.5E-02	< 2.9E-01	< 5.8E-02	< 4.0E-02	ND	KAKEN Co., Ltd.	2022/10/12	8.3E-02	
Around 2km Offshore of 2F Site (T-S7)	Flatfish (muscle)	2022/10/13	1.3E-01	< 2.6E-01	9.9E-02	< 3.8E-02	ND	KAKEN Co., Ltd.	2022/10/12	< 3.3E-01	
Around 4km Offshore of Kuma River (T-S8)	Flatfish (muscle)	2022/10/4	7.4E-02	< 2.8E-01	5.6E-02	< 4.2E-02	ND	Kyushu Environmental Evaluation Association	2022/10/3	1.2E-01	
Around 15km Offshore of Odaka Ward (T-B1)	—	—	—	—	—	—	—	Seawater	2022/11/10	< 3.2E-01	
Around 18km Offshore of Ukedo River (T-B2)	—	—	—	—	—	—	—	Seawater	2022/11/10	< 3.1E-01	
Around 10km Offshore of 1F Site (T-B3)	Flatfish (muscle)	2022/10/28	1.5E-01	< 2.7E-01	1.1E-01	< 3.6E-02	ND	KAKEN Co., Ltd.	2022/10/28	< 3.2E-01	
Around 10km Offshore of 2F Site (T-B4)	Flatfish (muscle)	2022/10/28	1.1E-01	< 2.7E-01	8.6E-02	< 3.7E-02	ND	KAKEN Co., Ltd.	2022/10/28	< 3.2E-01	
									WHO Guidelines for Drinking-water Quality ^{*1}	1.0E+04	

- 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.tepcoco.jp/press/report/>

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