

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			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)	Stingray (muscle)	2023/5/27	< 3.8E+00	< 3.6E+00	ND	Tokyo Power Technology Ltd.
Around 1km Offshore of Ota River (T-S1)	Japanese angel shark (muscle)	2023/5/27	< 3.3E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.
Around 1km Offshore of Ota River (T-S1)	Blue crab (whole)	2023/5/27	< 3.5E+00	< 3.6E+00	ND	Tokyo Power Technology Ltd.
Around 1km Offshore of Ota River (T-S1)	Common skete (muscle)	2023/5/27	< 3.3E+00	< 4.1E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of Odaka Ward (T-S2)	Japanese angel shark (muscle)	2023/5/27	< 3.8E+00	< 3.4E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of Odaka Ward (T-S2)	Blue crab (whole)	2023/5/27	< 4.2E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of Odaka Ward (T-S2)	Flatfish (muscle) No.1	2023/5/27	< 4.3E+00	< 3.7E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of Ukedo River (T-S3)	Japanese angel shark (muscle)	2023/5/31	< 3.7E+00	< 3.8E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of Ukedo River (T-S3)	Common skete (muscle)	2023/5/31	< 2.9E+00	< 3.9E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of Ukedo River (T-S3)	Flatfish (muscle) No.1	2023/5/31	< 4.0E+00	< 4.1E+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 3km Offshore of Ukedo River (T-S3)	Searobin (muscle)	2023/5/31	< 4.0E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of Ukedo River (T-S3)	Marbled sole (muscle)	2023/5/31	< 4.0E+00	< 3.6E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of 1F Site (T-S4)	Common skete (muscle)	2023/5/31	< 4.0E+00	< 4.0E+00	ND	Tokyo Power Technology Ltd.
Around 3km Offshore of 1F Site (T-S4)	Searobin (muscle)	2023/5/31	< 4.2E+00	< 4.3E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Lepidotrigla microptena (muscle)	2023/5/30	< 2.7E+00	< 3.8E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Yellow goosfish (whole)	2023/5/30	< 3.3E+00	< 4.4E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Common skete (muscle)	2023/5/30	< 3.8E+00	< 4.1E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Takifugu snyderi (muscle)	2023/5/30	< 3.6E+00	< 4.0E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Crimson sea bream (muscle)	2023/5/30	< 3.3E+00	< 3.4E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Flatfish (muscle) No.1	2023/5/30	< 3.7E+00	< 4.4E+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)

(3/5)

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)	Flatfish (muscle) No.2	2023/5/30	< 5.9E+00	< 5.2E+00	ND	KAKEN Co., Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Red sea bream (muscle)	2023/5/30	< 3.6E+00	< 4.2E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	John dory (muscle)	2023/5/30	< 3.2E+00	< 4.0E+00	ND	Tokyo Power Technology Ltd.
Around 15km Offshore of Odaka Ward (T-B1)	Roundnose flounder (muscle)	2023/5/30	< 3.9E+00	< 4.0E+00	ND	Tokyo Power Technology Ltd.
Around 18km Offshore of Ukedo River (T-B2)	Lepidotrigla microptena (muscle)	2023/5/30	< 3.5E+00	< 4.1E+00	ND	Tokyo Power Technology Ltd.
Around 18km Offshore of Ukedo River (T-B2)	Yellow gosefish (whole)	2023/5/30	< 3.9E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.
Around 18km Offshore of Ukedo River (T-B2)	Common skete (muscle)	2023/5/30	< 3.3E+00	< 3.9E+00	ND	Tokyo Power Technology Ltd.
Around 18km Offshore of Ukedo River (T-B2)	Microstomus achne (muscle)	2023/5/30	< 3.6E+00	< 3.2E+00	ND	Tokyo Power Technology Ltd.
Around 18km Offshore of Ukedo River (T-B2)	Flatfish (muscle) No.1	2023/5/30	< 3.1E+00	< 4.2E+00	ND	Tokyo Power Technology Ltd.
Around 18km Offshore of Ukedo River (T-B2)	Flatfish (muscle) No.2	2023/5/30	< 5.3E+00	< 4.1E+00	ND	KAKEN Co., 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)	Littlemouth flounder (muscle)	2023/5/30	< 3.1E+00	< 3.7E+00	ND	Tokyo Power Technology Ltd.
Around 18km Offshore of Ukedo River (T-B2)	Marbled sole (muscle)	2023/5/30	< 3.8E+00	< 3.2E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Lepidotrigla microptena (muscle)	2023/5/27	< 3.3E+00	< 3.8E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Crimson sea bream (muscle)	2023/5/27	< 3.7E+00	< 3.4E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Flatfish (muscle) No.1	2023/5/27	< 3.8E+00	< 4.4E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Flatfish (muscle) No.2	2023/5/27	< 5.8E+00	< 5.3E+00	ND	KAKEN Co., Ltd.
Around 10km Offshore of 1F Site (T-B3)	Searobin (muscle)	2023/5/27	< 3.7E+00	< 3.9E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Marbled sole (muscle)	2023/5/27	< 3.6E+00	< 4.0E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	Red sea bream (muscle)	2023/5/27	< 3.9E+00	< 3.2E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 1F Site (T-B3)	John dory (muscle)	2023/5/27	< 3.6E+00	< 4.1E+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)

(5/5)

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)	Lepidotrigla microptena (muscle)	2023/5/27	< 3.8E+00	< 2.9E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 2F Site (T-B4)	Yellow goosfish (whole)	2023/5/27	< 3.7E+00	< 4.0E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 2F Site (T-B4)	Crimson sea bream (muscle)	2023/5/27	< 3.2E+00	< 3.1E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 2F Site (T-B4)	Flatfish (muscle) No.1	2023/5/27	< 6.0E+00	< 5.4E+00	ND	KAKEN Co., Ltd.
Around 10km Offshore of 2F Site (T-B4)	Red sea bream (muscle)	2023/5/27	< 3.1E+00	< 3.9E+00	ND	Tokyo Power Technology Ltd.
Around 10km Offshore of 2F Site (T-B4)	Roundnose flounder (muscle)	2023/5/27	< 3.3E+00	< 3.4E+00	ND	Tokyo Power Technology Ltd.
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- 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)

(1/1)

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 4km Offshore of Kuma River (T-S8)	Yellow goosfish (whole)	2023/6/6	< 3.8E+00	< 4.3E+00	ND	Tokyo Power Technology Ltd.
Around 4km Offshore of Kuma River (T-S8)	Common skate (muscle)	2023/6/6	< 3.5E+00	< 3.6E+00	ND	Tokyo Power Technology Ltd.
Around 4km Offshore of Kuma River (T-S8)	Flatfish (muscle) No.1	2023/6/6	< 3.9E+00	< 4.6E+00	ND	Tokyo Power Technology Ltd.
Around 4km Offshore of Kuma River (T-S8)	Flatfish (muscle) No.2	2023/6/6	< 4.0E+00	< 3.5E+00	ND	Tokyo Power Technology Ltd.
Around 4km Offshore of Kuma River (T-S8)	Searobin (muscle)	2023/6/6	< 3.4E+00	< 3.9E+00	ND	Tokyo Power Technology Ltd.
Around 4km Offshore of Kuma River (T-S8)	Red sea bream (muscle)	2023/6/6	< 3.9E+00	< 4.0E+00	ND	Tokyo Power Technology Ltd.
Around 4km Offshore of Kuma River (T-S8)	John dory (muscle)	2023/6/6	< 3.2E+00	< 4.1E+00	ND	Tokyo Power Technology Ltd.
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- 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)	Flatfish (muscle)	2022/12/8	< 8.1E-02	< 2.8E-01	< 6.4E-02	< 3.7E-02	ND	KAKEN Co., Ltd.	Seawater	2022/12/7	< 7.8E-02
Around 3km Offshore of Odaka Ward (T-S2)	Flatfish (muscle)	2022/12/8	< 8.0E-02	< 2.8E-01	< 6.3E-02	< 3.8E-02	ND	KAKEN Co., Ltd.	Seawater	2022/12/7	< 7.7E-02
Around 3km Offshore of Ukedo River (T-S3)	Flatfish (muscle)	2022/12/22	< 7.9E-02	< 2.8E-01	< 6.3E-02	< 3.6E-02	ND	KAKEN Co., Ltd.	Seawater	2022/12/21	< 7.8E-02
Around 3km Offshore of 1F Site (T-S4)	Flatfish (muscle)	2022/12/22	< 8.0E-02	< 2.7E-01	< 6.4E-02	< 3.5E-02	ND	KAKEN Co., Ltd.	Seawater	2022/12/21	< 7.9E-02
Around 2km Offshore of Kido River (T-S5)	—	—	—	—	—	—	—	—	Seawater	2023/1/11	< 8.5E-02
Around 2km Offshore of 2F Site (T-S7)	Flatfish (muscle)	2023/1/12	9.5E-02	< 2.6E-01	7.4E-02	< 3.5E-02	ND	KAKEN Co., Ltd.	Seawater	2023/1/11	< 3.1E-01
Around 4km Offshore of Kuma River (T-S8)	Flatfish (muscle)	2022/12/22	6.8E-02	< 2.7E-01	5.4E-02	< 3.5E-02	ND	Kyushu Environmental Evaluation Association	Seawater	2022/12/21	4.5E-02
Around 15km Offshore of Odaka Ward (T-B1)	—	—	—	—	—	—	—	—	Seawater	2022/12/13	< 3.3E-01
Around 18km Offshore of Ukedo River (T-B2)	Flatfish (muscle)	2022/12/13	< 8.2E-02	< 2.7E-01	< 6.5E-02	< 3.6E-02	ND	KAKEN Co., Ltd.	Seawater	2022/12/13	< 3.3E-01
Around 10km Offshore of 1F Site (T-B3)	—	—	—	—	—	—	—	—	Seawater	2022/12/20	< 3.5E-01
Around 10km Offshore of 2F Site (T-B4)	Flatfish (muscle)	2022/12/20	< 8.2E-02	< 2.8E-01	< 6.4E-02	< 3.8E-02	ND	KAKEN Co., Ltd.	Seawater	2022/12/20	< 3.5E-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.tepco.co.jp/press/report/>

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