

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 3km Offshore of Odaka Ward (T-S2) *2	Flatfish (muscle) No.1	2022/11/9	< 6.1E+00	< 5.2E+00	ND
Around 2km Offshore of 2F Site (T-S7) *1	Flatfish (muscle) No.1	2022/11/9	< 3.7E+00	< 3.4E+00	ND
Around 15km Offshore of Odaka Ward (T-B1) *2	Flatfish (muscle) No.2	2022/12/6	< 6.6E+00	< 5.5E+00	ND
Around 18km Offshore of Ukedo River (T-B2) *2	Flatfish (muscle) No.1	2022/12/6	< 6.3E+00	< 5.5E+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.
- \*1 Analysis was conducted by Tokyo Power Technology Ltd.
- \*2 Analysis was conducted by KAKEN Co., Ltd.
- Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10<sup>1</sup>" and equals 31. Similarly, "3.1E+00" means "3.1×10<sup>0</sup>" and equals 3.1, and "3.1E-01" means "3.1×10<sup>-1</sup>" and equals 0.31.

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) *1	Stone flounder (muscle)	2022/12/8	< 3.1E+00	< 3.7E+00	ND
Around 1km Offshore of Ota River (T-S1) *1	Lepidotrigla microptena (muscle)	2022/12/8	< 3.4E+00	< 3.5E+00	ND
Around 1km Offshore of Ota River (T-S1) *1	Black sea bream (muscle)	2022/12/8	< 3.4E+00	< 3.2E+00	ND
Around 1km Offshore of Ota River (T-S1) *1	Common skete (muscle)	2022/12/8	< 3.5E+00	< 3.4E+00	ND
Around 1km Offshore of Ota River (T-S1) *1	Flatfish (muscle) No.1	2022/12/8	< 3.8E+00	< 3.3E+00	ND
Around 1km Offshore of Ota River (T-S1) *2	Flatfish (muscle) No.2	2022/12/8	< 6.2E+00	< 4.9E+00	ND
Around 3km Offshore of Odaka Ward (T-S2) *1	Lepidotrigla microptena (muscle)	2022/12/8	< 4.5E+00	< 3.9E+00	ND
Around 3km Offshore of Odaka Ward (T-S2) *1	Flatfish (muscle) No.1	2022/12/8	< 3.8E+00	< 3.4E+00	ND
Around 3km Offshore of Odaka Ward (T-S2) *2	Flatfish (muscle) No.2	2022/12/8	< 5.1E+00	< 4.8E+00	ND
Around 3km Offshore of Ukedo River (T-S3) *2	Flatfish (muscle) No.1	2022/12/22	< 5.1E+00	< 5.3E+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.

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### 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 3km Offshore of Ukedo River (T-S3) *1	Searobin (muscle)	2022/12/22	< 3.6E+00	< 3.1E+00	ND
Around 3km Offshore of 1F Site (T-S4) *1	Banded houndshark (muscle)	2022/12/22	< 3.3E+00	6.1E+00	6.1E+00
Around 3km Offshore of 1F Site (T-S4) *1	Flatfish (muscle) No.1	2022/12/22	< 3.6E+00	< 2.9E+00	ND
Around 3km Offshore of 1F Site (T-S4) *2	Flatfish (muscle) No.2	2022/12/22	< 5.5E+00	< 5.6E+00	ND
Around 3km Offshore of 1F Site (T-S4) *1	Searobin (muscle)	2022/12/22	< 3.5E+00	< 2.9E+00	ND
Around 3km Offshore of 1F Site (T-S4) *1	Ridged-eye flounder (muscle)	2022/12/22	< 3.3E+00	< 3.9E+00	ND
Around 4km Offshore of Kuma River (T-S8) *1	Stone flounder (muscle)	2022/12/22	< 3.8E+00	< 3.5E+00	ND
Around 4km Offshore of Kuma River (T-S8) *1	Japanese angel shark (muscle)	2022/12/22	< 3.6E+00	< 4.3E+00	ND
Around 4km Offshore of Kuma River (T-S8) *1	Flatfish (muscle) No.1	2022/12/22	< 3.3E+00	< 3.3E+00	ND
Around 4km Offshore of Kuma River (T-S8) *1	Flatfish (muscle) No.2	2022/12/22	< 4.1E+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.

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### 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 4km Offshore of Kuma River (T-S8) *1	Searobin (muscle)	2022/12/22	< 3.5E+00	< 3.6E+00	ND
Around 4km Offshore of Kuma River (T-S8) *1	Marbled sole (muscle)	2022/12/22	< 4.1E+00	< 3.4E+00	ND
Around 4km Offshore of Kuma River (T-S8) *1	John dory (muscle)	2022/12/22	< 3.0E+00	< 3.1E+00	ND
Around 15km Offshore of Odaka Ward (T-B1) *1	Lepidotrigla microptena (muscle)	2022/12/13	< 3.5E+00	< 4.2E+00	ND
Around 15km Offshore of Odaka Ward (T-B1) *1	Takifugu snyderi (muscle)	2022/12/13	< 3.9E+00	< 3.6E+00	ND
Around 15km Offshore of Odaka Ward (T-B1) *1	Crimson sea bream (muscle)	2022/12/13	< 3.5E+00	< 3.9E+00	ND
Around 15km Offshore of Odaka Ward (T-B1) *2	Flatfish (muscle) No.1	2022/12/13	< 6.0E+00	< 5.4E+00	ND
Around 15km Offshore of Odaka Ward (T-B1) *1	Marbled sole (muscle)	2022/12/13	< 3.3E+00	< 3.1E+00	ND
Around 15km Offshore of Odaka Ward (T-B1) *1	Red sea bream (muscle)	2022/12/13	< 3.8E+00	< 3.8E+00	ND
Around 15km Offshore of Odaka Ward (T-B1) *1	John dory (muscle)	2022/12/13	< 3.7E+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.

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- Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10<sup>1</sup>" and equals 31. Similarly, "3.1E+00" means "3.1×10<sup>0</sup>" and equals 3.1, and "3.1E-01" means "3.1×10<sup>-1</sup>" 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 15km Offshore of Odaka Ward (T-B1) *1	Roundnose flounder (muscle)	2022/12/13	< 3.7E+00	< 3.5E+00	ND
Around 18km Offshore of Ukedo River (T-B2) *1	Lepidotrigla microptena (muscle)	2022/12/13	< 3.5E+00	< 3.4E+00	ND
Around 18km Offshore of Ukedo River (T-B2) *1	Common skete (muscle)	2022/12/13	< 4.0E+00	< 3.5E+00	ND
Around 18km Offshore of Ukedo River (T-B2) *1	Crimson sea bream (muscle)	2022/12/13	< 3.8E+00	< 4.3E+00	ND
Around 18km Offshore of Ukedo River (T-B2) *1	Flatfish (muscle) No.1	2022/12/13	< 3.4E+00	< 3.5E+00	ND
Around 18km Offshore of Ukedo River (T-B2) *2	Flatfish (muscle) No.2	2022/12/13	< 6.3E+00	< 5.2E+00	ND
Around 18km Offshore of Ukedo River (T-B2) *1	John dory (muscle)	2022/12/13	< 3.4E+00	< 3.4E+00	ND
Around 18km Offshore of Ukedo River (T-B2) *1	Roundnose flounder (muscle)	2022/12/13	< 4.1E+00	< 3.5E+00	ND
Around 18km Offshore of Ukedo River (T-B2) *1	Ridged-eye flounder (muscle)	2022/12/13	< 3.8E+00	< 3.2E+00	ND
Around 10km Offshore of 1F Site (T-B3) *1	Takifugu snyderi (muscle)	2022/12/20	< 3.2E+00	< 3.6E+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.

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- Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10<sup>1</sup>" and equals 31. Similarly, "3.1E+00" means "3.1×10<sup>0</sup>" and equals 3.1, and "3.1E-01" means "3.1×10<sup>-1</sup>" 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 10km Offshore of 1F Site (T-B3) *1	Crimson sea bream (muscle)	2022/12/20	< 3.8E+00	< 3.9E+00	ND
Around 10km Offshore of 1F Site (T-B3) *1	Smooth dogfish (muscle)	2022/12/20	< 3.0E+00	< 3.2E+00	ND
Around 10km Offshore of 1F Site (T-B3) *1	Marbled sole (muscle)	2022/12/20	< 3.9E+00	< 3.5E+00	ND
Around 10km Offshore of 1F Site (T-B3) *1	Ridged-eye flounder (muscle)	2022/12/20	< 4.1E+00	< 3.2E+00	ND
Around 10km Offshore of 2F Site (T-B4) *1	Lepidotrigla microptena (muscle)	2022/12/20	< 3.7E+00	4.5E+00	4.5E+00
Around 10km Offshore of 2F Site (T-B4) *1	Common skete (muscle)	2022/12/20	< 3.6E+00	< 4.0E+00	ND
Around 10km Offshore of 2F Site (T-B4) *1	Takifugu snyderi (muscle)	2022/12/20	< 3.8E+00	< 3.1E+00	ND
Around 10km Offshore of 2F Site (T-B4) *1	Crimson sea bream (muscle)	2022/12/20	< 3.6E+00	< 3.9E+00	ND
Around 10km Offshore of 2F Site (T-B4) *2	Flatfish (muscle) No.1	2022/12/20	< 6.0E+00	< 5.2E+00	ND
Around 10km Offshore of 2F Site (T-B4) *1	Searobin (muscle)	2022/12/20	< 4.0E+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.

\*1 Analysis was conducted by Tokyo Power Technology Ltd.

\*2 Analysis was conducted by KAKEN Co., Ltd.

- Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10<sup>1</sup>" and equals 31. Similarly, "3.1E+00" means "3.1×10<sup>0</sup>" and equals 3.1, and "3.1E-01" means "3.1×10<sup>-1</sup>" 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) *1	Smooth dogfish (muscle)	2022/12/20	< 3.0E+00	< 3.3E+00	ND
Around 10km Offshore of 2F Site (T-B4) *1	Red sea bream (muscle)	2022/12/20	< 3.2E+00	< 3.4E+00	ND
Around 10km Offshore of 2F Site (T-B4) *1	John dory (muscle)	2022/12/20	< 4.0E+00	< 3.2E+00	ND
Around 10km Offshore of 2F Site (T-B4) *1	Ridged-eye flounder (muscle)	2022/12/20	< 3.7E+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.
- \*1 Analysis was conducted by Tokyo Power Technology Ltd.
- \*2 Analysis was conducted by KAKEN Co., Ltd.
- Values are expressed in exponential notation. For example, "3.1E+01" means "3.1×10<sup>1</sup>" and equals 31. Similarly, "3.1E+00" means "3.1×10<sup>0</sup>" and equals 3.1, and "3.1E-01" means "3.1×10<sup>-1</sup>" 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)	2022/6/3	1.5E-01	< 2.8E-01	1.2E-01	< 4.1E-02	ND	Seawater	2022/6/2	< 6.8E-02
Around 3km Offshore of Odaka Ward (T-S2) *2	Flatfish (muscle)	2022/6/3	1.2E-01	< 3.9E-01	9.6E-02	< 5.5E-02	ND	Seawater	2022/6/2	< 7.4E-02
Around 3km Offshore of Ukedo River (T-S3) *2	Flatfish (muscle)	2022/6/23	1.2E-01	< 2.6E-01**	9.5E-02	< 3.8E-02**	ND	Seawater	2022/6/22	1.4E-01
Around 3km Offshore of 1F Site (T-S4) *2	Flatfish (muscle)	2022/6/23	1.3E-01	< 2.7E-01	1.0E-01	< 4.2E-02	ND	Seawater	2022/6/22	1.4E-01
Around 2km Offshore of Kido River (T-S5) *2	Flatfish (muscle)	2022/6/30	1.5E-01	< 2.8E-01	1.2E-01	< 4.1E-02	ND	Seawater	2022/6/29	1.1E-01
Around 2km Offshore of 2F Site (T-S7)	Flatfish (muscle)	2022/6/30	- *4 **	- *4 **	- *4 **	- *4 **	ND	Seawater	2022/6/29	3.9E-01
Around 4km Offshore of Kuma River (T-S8) *1	Flatfish (muscle)	2022/6/28	7.5E-02	< 2.7E-01	5.7E-02	< 4.1E-02	ND	Seawater	2022/6/27	7.5E-02
Around 15km Offshore of Odaka Ward (T-B1)	Flatfish (muscle)	2022/6/21	- *4	- *4	- *4	- *4	ND	Seawater	2022/6/21	< 3.3E-01
Around 18km Offshore of Ukedo River (T-B2)	Marbled sole (muscle)	2022/6/21	- *4	-	- *4	-	ND	Seawater	2022/6/21	< 3.3E-01
Around 10km Offshore of 1F Site (T-B3)	Flatfish (muscle)	2022/6/28	- *4	- *4	- *4	- *4	ND	Seawater	2022/6/28	< 3.3E-01
Around 10km Offshore of 2F Site (T-B4)	Flatfish (muscle)	2022/6/28	- *4	- *4	- *4	- *4	ND	Seawater	2022/6/28	< 3.3E-01
								WHO Guidelines for Drinking-water Quality <sup>*3</sup>	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 "3.1×10<sup>1</sup>" and equals 31. Similarly, "3.1E+00" means "3.1×10<sup>0</sup>" and equals 3.1, and "3.1E-01" means "3.1×10<sup>-1</sup>" 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)"(Japanese only).  
<https://www.tepco.co.jp/press/report/>
- Data except for "\*" has already been released.
- \*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)	2022/7/22	< 7.6E-02	< 2.9E-01	< 5.9E-02	< 3.9E-02	ND	Seawater	2022/7/21	2.1E-01
Around 3km Offshore of Odaka Ward (T-S2) *2	Flatfish (muscle)	2022/7/22	< 7.6E-02	< 2.6E-01	< 6.0E-02	< 3.5E-02	ND	Seawater	2022/7/21	2.0E-01
Around 3km Offshore of Ukedo River (T-S3) *2	Flatfish (muscle)	2022/7/12	1.3E-01	< 2.9E-01	1.0E-01	< 4.0E-02	ND	Seawater	2022/7/11	1.3E-01
Around 3km Offshore of 1F Site (T-S4) *2	Flatfish (muscle)	2022/7/12	1.1E-01	< 2.7E-01	8.9E-02	< 3.9E-02	ND	Seawater	2022/7/11	1.3E-01
Around 2km Offshore of Kido River (T-S5) *2	Flatfish (muscle)	2022/7/21	< 8.2E-02	< 2.8E-01	< 6.3E-02	< 4.0E-02	ND	Seawater	2022/7/20	1.3E-01
Around 2km Offshore of 2F Site (T-S7)	Flatfish (muscle)	2022/7/21	- *4	- *4	- *4	- *4	ND	Seawater	2022/7/20	< 3.3E-01
Around 4km Offshore of Kuma River (T-S8) *1	Flatfish (muscle)	2022/7/14	8.5E-02	< 2.8E-01	6.6E-02	< 4.2E-02	ND	Seawater	2022/7/13	8.1E-02
Around 15km Offshore of Odaka Ward (T-B1)	-	-	-	-	-	-	-	Seawater	2022/8/5	< 3.2E-01
Around 18km Offshore of Ukedo River (T-B2)	-	-	-	-	-	-	-	Seawater	2022/8/5	< 3.2E-01
Around 10km Offshore of 1F Site (T-B3)	-	-	-	-	-	-	-	Seawater	-	-
Around 10km Offshore of 2F Site (T-B4)	-	-	-	-	-	-	-	Seawater	-	-
								WHO Guidelines for Drinking-water Quality <sup>*3</sup>	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.
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- 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)"(Japanese only).  
<https://www.tepco.co.jp/press/report/>
- Data of T-S8 has already been released.
- \*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)	2022/8/4	1.3E-01	< 2.6E-01	1.0E-01	< 4.2E-02	ND	Seawater	2022/8/3	< 7.8E-02
Around 3km Offshore of Odaka Ward (T-S2) *2	Flatfish (muscle)	2022/8/4	1.5E-01	< 2.6E-01	1.1E-01	< 3.7E-02	ND	Seawater	2022/8/3	1.0E-01
Around 3km Offshore of Ukedo River (T-S3) *2	Flatfish (muscle)	2022/8/3	1.2E-01	< 2.6E-01	9.4E-02	< 3.9E-02	ND	Seawater	2022/8/2	< 7.7E-02
Around 3km Offshore of 1F Site (T-S4) *2	Flatfish (muscle)	2022/8/3	1.4E-01	< 2.6E-01	1.0E-01	< 4.3E-02	ND	Seawater	2022/8/2	< 7.7E-02
Around 2km Offshore of Kido River (T-S5) *2	Flatfish (muscle)	2022/8/30	1.0E-01	< 2.6E-01	7.8E-02	< 3.8E-02	ND	Seawater	2022/8/29	8.8E-02
Around 2km Offshore of 2F Site (T-S7)	Flatfish (muscle)	2022/8/30	- *4	- *4	- *4	- *4	ND	Seawater	2022/8/29	< 3.2E-01
Around 4km Offshore of Kuma River (T-S8) *1	-	-	-	-	-	-	-	Seawater	2022/8/8	7.9E-02
Around 15km Offshore of Odaka Ward (T-B1)	-	-	-	-	-	-	-	Seawater	2022/8/26	< 3.1E-01
Around 18km Offshore of Ukedo River (T-B2)	-	-	-	-	-	-	-	Seawater	2022/8/26	< 3.1E-01
Around 10km Offshore of 1F Site (T-B3)	-	-	-	-	-	-	-	Seawater	2022/8/30	< 3.2E-01
Around 10km Offshore of 2F Site (T-B4)	-	-	-	-	-	-	-	Seawater	2022/8/30	< 3.2E-01
<ul style="list-style-type: none"> <li>· Seawater is sampled from the surface layer.</li> <li>· Half life of each nuclide: H-3 (Approx. 12 years), Cs-134 (Approx. 2 years), Cs-137 (Approx. 30 years)</li> <li>· Inequality sign (&lt;: less than) indicates that measurement result is less than the detection limit (ND).</li> <li>· “-” indicates that the sampling was stopped or samples could not be collected, or the analysis was stopped due to lack of samples.</li> <li>· Values are expressed in exponential notation. For example, “3.1E+01” means “3.1×10<sup>1</sup>” and equals 31. Similarly, “3.1E+00” means “3.1×10<sup>0</sup>” and equals 3.1, and “3.1E-01” means “3.1×10<sup>-1</sup>” and equals 0.31.</li> <li>· Reference value (on and after April 1, 2012): Sum of radioactivity concentrations for Cs-134 and Cs-137: 1.0E+02Bq/kg.</li> <li>· 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.</li> <li>· 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.</li> <li>· For the evaluation of the analysis results, please refer to the “Status of the Fukushima Daiichi NPS (Daily Report)”(Japanese only). <a href="https://www.tepco.co.jp/press/report/">https://www.tepco.co.jp/press/report/</a></li> </ul>								WHO Guidelines for Drinking-water Quality <sup>*3</sup>	1.0E+04	

\*1 Analysed by Kyushu Environmental Evaluation Association

\*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.