

## Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 1/6 >

(Data summarized on November 2)

Name of Sample (Region)	Place of Sampling ( Place No. )	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Greenling (Muscle) No.53	Around 1km Offshore of Ota River (T-S1)	October 9, 2012	23	49	72
Greenling (Muscle) No.54	Around 1km Offshore of Ota River (T-S1)	October 10, 2012	20	35	55
Greenling (Muscle) No.55	Around 1km Offshore of Ota River (T-S1)	October 10, 2012	21	37	58
Greenling (Muscle) No.56	Around 1km Offshore of Ota River (T-S1)	October 10, 2012	38	70	108
Greenling (Muscle) No.57	Around 1km Offshore of Ota River (T-S1)	October 10, 2012	ND	15	15
Cynoglossus joyneri (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 13, 2012	11	23	34
Blue crab (Whole)	Around 3km Offshore of Ukedo River (T-S3)	October 13, 2012	16	21	37
Common Skete (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 13, 2012	160	280	440
Sea bass (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 13, 2012	22	42	64
Drumfish (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 13, 2012	14	31	45

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 7.0Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

**Nuclide Analysis Results of Fish and Shellfish**  
**(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 2/6 >**

(Data summarized on November 2)

Name of Sample (Region)	Place of Sampling ( Place No. )	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Flatfish (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 13, 2012	86	140	226
Spotted halibut (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 13, 2012	65	100	165
Smooth dogfish (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 13, 2012	7.3	9.0	16.3
Flathead (Platycephalus sp.) (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 13, 2012	30	56	86
Pagrus major (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	October 13, 2012	5.7	10	15.7
Greenling (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	66	130	196
Blue crab (Whole)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	ND	ND	ND
Angel shark (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	ND	8.7	8.7
Common Skete (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	72	120	192
Chum salmon (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	ND	ND	ND

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 5.4Bq/kg (Raw), Cs-137: Approx. 3.4Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

Nuclide Analysis Results of Fish and Shellfish  
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 3/6 >

(Data summarized on November 2)

Name of Sample (Region)	Place of Sampling ( Place No. )	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Drumfish (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	13	31	44
Ovalipes punctatus (Whole)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	ND	4.3	4.3
Flatfish (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	31	38	69
Yellowtail (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	ND	3.6	3.6
Dasyatis matsubara (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	ND	7.5	7.5
Common horse mackerel (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	6.9	12	18.9
Marbled sole (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	100	190	290
Pagrus major (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	9.0	16	25
Carcharhinus (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	October 13, 2012	ND	5.6	5.6
Blue crab (Whole)	Around 2km Offshore of Kido River (T-S5)	October 15, 2012	3.6	4.9	8.5

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 4.7Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

**Nuclide Analysis Results of Fish and Shellfish**  
**(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 4/6 >**

(Data summarized on November 2)

Name of Sample (Region)	Place of Sampling ( Place No. )	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Common Skete (Muscle)	Around 2km Offshore of Kido River (T-S5)	October 15, 2012	290	490	780
Banded dogfish (Muscle)	Around 2km Offshore of Kido River (T-S5)	October 15, 2012	110	160	270
Drumfish (Muscle)	Around 2km Offshore of Kido River (T-S5)	October 15, 2012	11	28	39
Flatfish (Muscle)	Around 2km Offshore of Kido River (T-S5)	October 15, 2012	130	220	350
Greenling (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	October 15, 2012	170	280	450
Blue crab (Whole)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	October 15, 2012	ND	ND	ND
Schlegel's black rockfish (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	October 15, 2012	560	910	1470
Acanthopagrus schlegeli (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	October 15, 2012	28	47	75
Common Skete (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	October 15, 2012	170	290	460
Drumfish (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	October 15, 2012	13	22	35

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 4.4Bq/kg (Raw), Cs-137: Approx. 4.1Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

Nuclide Analysis Results of Fish and Shellfish  
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 5/6 >

(Data summarized on November 2)

Name of Sample (Region)	Place of Sampling ( Place No. )	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Flatfish (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	October 15, 2012	69	120	189
Smooth dogfish (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	October 15, 2012	7.9	16	23.9
Dory (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	October 15, 2012	6.8	12	18.8
Stingray (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 14, 2012	33	59	92
Blue crab (Whole)	Around 4km Offshore of Kumagawa (T-S8)	October 14, 2012	ND	ND	ND
Common Skete (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 14, 2012	120	180	300
Pennahia argentata (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 14, 2012	ND	8.9	8.9
Drumfish (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 14, 2012	20	37	57
Ovalipes punctatus (Whole)	Around 4km Offshore of Kumagawa (T-S8)	October 14, 2012	6.9	13	19.9
Flatfish (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 14, 2012	32	60	92

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 4.4Bq/kg (Raw), Cs-137: Approx. 4.3Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

Nuclide Analysis Results of Fish and Shellfish  
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 6/6 >

(Data summarized on November 2)

Name of Sample (Region)	Place of Sampling ( Place No. )	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Smooth dogfish (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 14, 2012	43	78	121
Flathead (Platycephalus sp.) (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	October 14, 2012	8.9	23	31.9
Brown hakeling (Muscle)	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	October 10, 2012	1600	2600	4200
Schlegel's black rockfish (Muscle) No.1	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	October 10, 2012	660	1100	1760
Schlegel's black rockfish (Muscle) No.2	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	October 10, 2012	830	1400	2230
Common Japanese conger (Muscle)	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	October 10, 2012	5900	9600	15500

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.

Nuclide Analysis Results of Forage Fish and Shellfish  
(The Ocean Area Within 20km Radius of Fukushima Daiichi NPS)

(Data summarized on November 2)

Name of Sample (Region)	Place of Sampling ( Place No. )	Date of Sampling	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
			Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Cynoglossus joyneri (Large) (Muscle)	Around 1km Offshore of Ota River (T-S1)	October 16, 2012	7.1	10	17.1
Cynoglossus joyneri (Small) (Muscle)	Around 1km Offshore of Ota River (T-S1)	October 16, 2012	ND	7.1	7.1
Crangonidae (Whole)	Around 1km Offshore of Ota River (T-S1)	October 16, 2012	ND	ND	ND
Metapenaeopsis dalei (Whole)	Around 1km Offshore of Ota River (T-S1)	October 16, 2012	ND	ND	ND
Southern rough shrimp (Large) (Whole)	Around 1km Offshore of Ota River (T-S1)	October 16, 2012	6.2	7.5	13.7
Southern rough shrimp (Small) (Whole)	Around 1km Offshore of Ota River (T-S1)	October 16, 2012	ND	ND	ND
Pennahia argentata (Whole)	Around 1km Offshore of Ota River (T-S1)	October 16, 2012	ND	4.7	4.7
Loliginid (Whole)	Around 1km Offshore of Ota River (T-S1)	October 16, 2012	ND	ND	ND
Philyra syndactyla Ortmann (Whole)	Around 1km Offshore of Ota River (T-S1)	October 16, 2012	ND	ND	ND
Common horse mackerel (Whole)	Around 1km Offshore of Ota River (T-S1)	October 16, 2012	4.9	6.4	11.3

\* When the measurement value is below the detection limit, "ND" is marked. The detection limits are as follows.

Cs-134: Approx. 11Bq/kg (Raw), Cs-137: Approx. 8.9Bq/kg (Raw)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

\* Standard Value (after April 1, 2012) Cs-134+Cs-137: 100Bq/kg

\* Analyzed by Tokyo Electric Power Environmental Engineering Co., Inc.