[Revised Version]

\* The second column of name of the sample at page 12

has been corrected to "Sea raven (Muscle)" from "Devil singer (Muscle)".

<Reference> April 12, 2013 Tokyo Electric Power Company

# Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 1/12 >

(Data summarized on April 12)

Name of Sample (Region)	Place of Sampling		Radioad	ctivity Density [Bq/kg (Raw)] (Half-life)	
	( Place No. )	Date of Sampling	Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Greenling (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	March 27, 2013	35	71	106
Common skete (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	March 27, 2013	80	150	230
Microstoms achne (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	March 27, 2013	58	120	178
Ovalipes unctatus (Whole)	Around 3km Offshore of Ukedo River (T-S3)	March 27, 2013	ND	4.8	4.8
Flatfish (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	March 27, 2013	18	36	54
Marbled sole (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	March 27, 2013	15	24	39
Pacific cod (Muscle)	Around 3km Offshore of Ukedo River (T-S3)	March 27, 2013	12	16	28
Common skete (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	March 27, 2013	65	120	185
Microstoms achne (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	March 27, 2013	150	330	480
Flatfish (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	March 27, 2013	15	43	58

\* 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)

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

## Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 2/12 >

(Data summarized on April 12)

Name of Sample	Place of Sampling		Radioad	dioactivity Density [Bq/kg (Raw)] (Half-life)		
(Region)	( Place No. )	Date of Sampling	Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total	
Marbled sole (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	March 27, 2013	62	110	172	
Pacific cod (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	March 27, 2013	10	18	28	
Octopus dofleini (Muscle)	Around 3km Offshore of Fukushima Daiichi NPS (T-S4)	March 27, 2013	ND	ND	ND	
Common skete (Muscle)	Around 2km Offshore of Kido River (T-S5)	March 29, 2013	74	140	214	
Microstoms achne (Muscle)	Around 2km Offshore of Kido River (T-S5)	March 29, 2013	120	200	320	
Flatfish (Muscle)	Around 2km Offshore of Kido River (T-S5)	March 29, 2013	49	98	147	
Pacific cod (Muscle)	Around 2km Offshore of Kido River (T-S5)	March 29, 2013	6.9	13	19.9	
Stingray (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	March 29, 2013	11	18	29	
Sea raven (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	March 29, 2013	6.7	15	21.7	
Common skete (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	March 29, 2013	130	240	370	

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

Cs-134: Approx. 3.7Bq/kg (Raw), Cs-137: Approx. 4.6Bq/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

## Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 3/12 >

(Data summarized on April 12)

Name of Sample (Region)	Place of Sampling (Place No.)		Radioactivity Density [Bq/kg (Raw)] (Half-life)		
		Date of Sampling	Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Microstoms achne (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	March 29, 2013	130	220	350
Flatfish (Muscle)	Around 2km Offshore of Fukushima Daini NPS (T-S7)	March 29, 2013	83	160	243
Common skete (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	March 26, 2013	54	100	154
Marbled sole (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	March 26, 2013	90	180	270
Pacific cod (Muscle)	Around 4km Offshore of Kumagawa (T-S8)	March 26, 2013	14	27	41
Ovalipes unctatus (Whole)	Around 4km Offshore of Kumagawa (T-S8)	March 26, 2013	ND	6.6	6.6
Greenling (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	ND	5.8	5.8
Northern dogfish (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	10	18	28
Lepidotrigla microptera (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	ND	6.8	6.8
Loliginid (Whole)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	ND	ND	ND

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

Cs-134: Approx. 4.6Bq/kg (Raw), Cs-137: Approx. 3.8Bq/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

# Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 4/12 >

(Data summarized on April 12)

Name of Sample	Place of Sampling (Place No.)		Radioad	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
(Region)		Date of Sampling	Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total	
Sea bass (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	16	33	49	
Crimson sea bream (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	ND	ND	ND	
Microstoms achne (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	9.2	13	22.2	
Flatfish (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	5	11	16	
Common Japanese conger (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	ND	5.8	5.8	
Littlemouth flounder (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	6.1	13	19.1	
Marbled sole (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	10	27	37	
Pacific cod (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	61	120	181	
Octopus dofleini (Muscle)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	ND	ND	ND	
Loligo bleekeri (Whole)	Around 15km Offshore of Odaka Ward (T-B1)	March 22, 2013	ND	ND	ND	

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

Cs-134: Approx. 4.2Bq/kg (Raw), Cs-137: Approx. 4.0Bq/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

# Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 5/12 >

(Data summarized on April 12)

Name of Sample	Place of Sampling		Radioad	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
(Region)	( Place No. )	Date of Sampling	Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total	
Greenling (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	ND	ND	ND	
Stone flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	100	190	290	
Lepidotrigla microptera (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	ND	ND	ND	
Lophius litilon (Whole)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	4.1	7.7	11.8	
Common skete (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	28	45	73	
Loliginid (Whole)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	ND	ND	ND	
Sea bass (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	12	29	41	
Crimson sea bream (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	ND	ND	ND	
Microstoms achne (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	ND	9.8	9.8	
Flatfish (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	15	28	43	

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

Cs-134: Approx. 4.3Bq/kg (Raw), Cs-137: Approx. 4.2Bq/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

# Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 6/12 >

(Data summarized on April 12)

Name of Sample	Place of Sampling		Radioad	Radioactivity Density [Bq/kg (Raw)] (Half-life)		
(Region)	( Place No. )	Date of Sampling	Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total	
Common Japanese conger (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	ND	4.2	4.2	
Littlemouth flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	6.7	9	15.8	
Marbled sole (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	4.9	12	16.9	
Pacific cod (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	4.7	6.2	10.9	
Octopus dofleini (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	ND	ND	ND	
Roundnose flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	4.3	5.2	9.5	
Ridged-eye flounder (Muscle)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	4.8	10	14.8	
Loligo bleekeri (Whole)	Around 18km Offshore of Ukedo River (T-B2)	March 22, 2013	ND	ND	ND	
Stone flounder (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	March 16, 2013	8.0	17	25	
Lepidotrigla microptera (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	March 16, 2013	ND	ND	ND	

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

Cs-134: Approx. 3.8Bq/kg (Raw), Cs-137: Approx. 3.8Bq/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

# Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 7/12 >

(Data summarized on April 12)

Name of Sample	Place of Sampling		Radioad	ctivity Density [Bq/kg (Raw)] (Half-life)	
(Region)	( Place No. )	Date of Sampling	Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Common skete (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	March 16, 2013	48	92	140
Microstoms achne (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	March 16, 2013	19	41	60
Flatfish (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	March 16, 2013	17	33	50
Common Japanese conger (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	March 16, 2013	8.8	13	21.8
Littlemouth flounder (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	March 16, 2013	21	43	64
Marbled sole (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	March 16, 2013	23	43	66
Pacific cod (Muscle)	Around 10km Offshore of Fukushima Daiichi NPS (T-B3)	March 16, 2013	11	21	32
Lepidotrigla microptera (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	March 16, 2013	ND	5.5	5.5
Common skete (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	March 16, 2013	64	130	194
Microstoms achne (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	March 16, 2013	43	86	129

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

Cs-134: Approx. 4.6Bq/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

# Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 8/12 >

(Data summarized on April 12)

Name of Sample	Place of Sampling		Radioad	ctivity Density [Bq/kg (Raw)] (Half-life)	
(Region)	( Place No. )	Date of Sampling	Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Flatfish (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	March 16, 2013	26	50	76
Marbled sole (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	March 16, 2013	8.0	19	27
Pacific cod (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	March 16, 2013	11	13	24
Octopus dofleini (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	March 16, 2013	ND	ND	ND
Roundnose flounder (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	March 16, 2013	4.0	5.4	9.4
Ridged-eye flounder (Muscle)	Around 10km Offshore of Fukushima Daini NPS (T-B4)	March 16, 2013	6.7	19	25.7
Greenling (Muscle) No.1	In the Port of Fukushima Daiichi NPS (Around the Port Entrance)	March 6, 2013	3400	6400	9800
Sebastes cheni (Muscle) No.1	In the Port of Fukushima Daiichi NPS (Around the Port Entrance)	March 6, 2013	45000	82000	127000
Sebastes cheni (Muscle) No.2	In the Port of Fukushima Daiichi NPS (Around the Port Entrance)	March 6, 2013	32000	59000	91000
Flatfish (Muscle)	In the Port of Fukushima Daiichi NPS (Around the Port Entrance)	March 6, 2013	73	180	253

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

Cs-134: Approx. 3.9Bq/kg (Raw), Cs-137: Approx. 3.7Bq/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

\* Analysis at T-B4 was conducted 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) < 9/12 >

(Data summarized on April 12)

Name of Sample	Place of Sampling		Radioad	ctivity Density [Bq/kg (Raw)] (Half-life)	
(Region)	( Place No. )	Date of Sampling	Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Marbled sole (Muscle) No.1	In the Port of Fukushima Daiichi NPS (Around the Port Entrance)	March 6, 2013	5600	11000	16600
Pacific cod (Muscle)	In the Port of Fukushima Daiichi NPS (Around the Port Entrance)	March 6, 2013	88	90	178
Spotbelly rockfish (Muscle) No.1	In the Port of Fukushima Daiichi NPS (Around the Port Entrance)	March 6, 2013	26000	47000	73000
Sebastes cheni (Muscle) No.3	In the Port of Fukushima Daiichi NPS (Around the Port Entrance)	March 7, 2013	43000	79000	122000
Sebastes cheni (Muscle) No.4	In the Port of Fukushima Daiichi NPS (Around the Port Entrance)	March 7, 2013	43000	78000	121000
Greenling (Muscle) No.2	In the Port of Fukushima Daiichi NPS (Around the Port Entrance)	March 8, 2013	150000	280000	430000
Sebastes cheni (Muscle) No.5	In the Port of Fukushima Daiichi NPS (Around the Port Entrance)	March 8, 2013	30000	55000	85000
Striped mullet (Muscle) No.1	In the Port of Fukushima Daiichi NPS (Around the Port Entrance)	March 8, 2013	390	780	1170
Sebastes cheni (Muscle) No.6	In the Port of Fukushima Daiichi NPS (Around the South Breakwater)	March 8, 2013	24000	43000	67000
Sebastes cheni (Muscle) No.7	In the Port of Fukushima Daiichi NPS (Around the South Breakwater)	March 8, 2013	20000	36000	56000

#### Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 10/12 >

(Data summarized on April 12)

Name of Sample	Place of Sampling		Radioad	tivity Density [Bq/kg (Raw)] (Half-life)	
(Region)	( Place No. )	Date of Sampling	Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Greenling (Muscle) No.3	In the Port of Fukushima Daiichi NPS (Around the East Seawall Break)	March 13, 2013	7400	14000	21400
Brown hakeling (Muscle)	In the Port of Fukushima Daiichi NPS (Around the East Seawall Break)	March 13, 2013	660	1300	1960
Marbled sole (Muscle) No.2	In the Port of Fukushima Daiichi NPS (Around the East Seawall Break)	March 13, 2013	200	460	660
Marbled sole (Muscle) No.3	In the Port of Fukushima Daiichi NPS (Around the East Seawall Break)	March 22, 2013	1300	2300	3600
Greenling (Muscle) No.4	In the Port of Fukushima Daiichi NPS (Around the East Seawall Break)	March 28, 2013	38000	71000	109000
Embiotocidae (Muscle)	In the Port of Fukushima Daiichi NPS (Around the East Seawall Break)	March 28, 2013	ND	62	62
Sebastes cheni (Muscle) No.8	In the Port of Fukushima Daiichi NPS (Around the East Seawall Break)	March 28, 2013	54000	100000	154000
Spotbelly rockfish (Muscle) No.2	In the Port of Fukushima Daiichi NPS (Around the East Seawall Break)	March 28, 2013	150000	280000	430000
Greenling (Muscle) No.5	In the Port of Fukushima Daiichi NPS (Around the North Breakwater)	March 13, 2013	27000	51000	78000
Schlegel's black rockfish (Muscle) No.1	In the Port of Fukushima Daiichi NPS (Around the North Breakwater)	March 13, 2013	14000	25000	39000

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

Cs-134: Approx. 42Bq/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.

# Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 11/12 >

(Data summarized on April 12)

Name of Sample	Place of Sampling		Radioad	ctivity Density [Bq/kg (Raw)] (Half-life)	
(Region)	( Place No. )	Date of Sampling	Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Marbled sole (Muscle) No.4	In the Port of Fukushima Daiichi NPS (Around the North Breakwater)	March 13, 2013	20000	36000	56000
Marbled sole (Muscle) No.5	In the Port of Fukushima Daiichi NPS (Around the North Breakwater)	March 13, 2013	17000	32000	49000
Spotbelly rockfish (Muscle) No.3	In the Port of Fukushima Daiichi NPS (Around the North Breakwater)	March 13, 2013	53000	98000	151000
Greenling (Muscle) No.6	In the Port of Fukushima Daiichi NPS (Around the North Breakwater)	March 22, 2013	20000	37000	57000
Sebastes cheni (Muscle) No.9	In the Port of Fukushima Daiichi NPS (Around the North Breakwater)	March 22, 2013	22000	41000	63000
Spotbelly rockfish (Muscle) No.4	In the Port of Fukushima Daiichi NPS (Around the North Breakwater)	March 22, 2013	25000	46000	71000
Schlegel's black rockfish (Muscle) No.2	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	March 13, 2013	11000	21000	32000
Striped mullet (Muscle) No.2	In the Port of Fukushima Daiichi NPS (Around the Shallow Draft Quay)	March 28, 2013	1600	3000	4600
Marbled sole (Muscle) No.6	In the Port of Fukushima Daiichi NPS (Around the center of the port)	March 16, 2013	11000	21000	32000
Marbled sole (Muscle) No.7	In the Port of Fukushima Daiichi NPS (Around the center of the port)	March 16, 2013	7400	14000	21400

# Nuclide Analysis Results of Fish and Shellfish (The Ocean Area Within 20km Radius of Fukushima Daiichi NPS) < 12/12 >

(Data summarized on April 12)

Name of Sample	Place of Sampling (Place No.)		Radioad	ctivity Density [Bq/kg (Raw)] (Half-life)	
(Region)		Date of Sampling	Cs-134 (Approx. 2 years)	Cs-137 (Approx. 30 years)	Total
Greenling (Muscle) No.7	In the Port of Fukushima Daiichi NPS (Around the center of the port)	March 26, 2013	38000	70000	108000
Sea raven (Muscle)	In the Port of Fukushima Daiichi NPS (Around the center of the port)	March 26, 2013	410	820	1230
Gizzard shad (Muscle)	In the Port of Fukushima Daiichi NPS (Around the center of the port)	March 26, 2013	34	47	81
Sebastes cheni (Muscle) No.10	In the Port of Fukushima Daiichi NPS (Around the center of the port)	March 26, 2013	49000	92000	141000