

(News Release)

The Results of Radioactive Material Monitoring of the Surface Water Bodies  
within Tokyo, Saitama, and Chiba Prefectures  
(May-June Samples)

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In accordance with the Comprehensive Radiation Monitoring Plan determined by the Monitoring Coordination Meeting, the Ministry of the Environment (MOE) is continuing to monitor radioactive materials in water environments (surface water bodies (rivers, lakes and headwaters, and coasts), etc.).

Samples taken from the surface water bodies of Tokyo, Saitama, and Chiba Prefectures during the period of May 14-June 13, 2013 have been measured as part of MOE's efforts to monitor radioactive materials; the results have recently been compiled and are released here.

The monitoring results of radioactive materials in surface water bodies carried out to date can be found at the following web page: <http://www.env.go.jp/jishin/rmp.html#monitoring>

1. Survey Overview

(1) Survey Locations

67 environmental reference points, etc. in the surface water bodies within Tokyo, Saitama, and Chiba Prefectures

(Rivers: 51 locations, Lakes and headwaters: 8, Coasts: 8 locations)

(2) Survey Method

- Measurement of concentrations of radioactive materials (radioactive cesium (Cs-134 and Cs-137)) in water and sediment
- Measurement of concentrations of radioactive materials and spatial dose-rate in soil in the surrounding environment of water and sediment sample collection points (river terraces, etc.)

2. Outline of Results (\* denotes the results of the previous survey (December 2012-February 2013))

(1) Water Quality (Lower detection limit: 1Bq/L)

Cs-134+Cs-137: Not detectable (ND) at any location (\*ND at any location)

<Reference>

Specification and Standards for Food, Food Additives, etc. in accordance with the Food Sanitation Act (Drinking Water) (Ministry of Health, Labour and Welfare Public Notice No.130, March 15, 2012)

Radioactive cesium (total for Cs-134+Cs-137): 10Bq/kg

Target value for radioactive materials in tap water (management target for water supply facilities) (March 5, 2012; 0305 Notice No.1 from the Director of the Water Supply Division, Health Service Bureau, Ministry of Health, Labour and Welfare)

Radioactive cesium (total for Cs-134+Cs-137): 10Bq/kg

(2) Sediment (Lower detection limit: 10Bq/kg (dried mud))

Overall, the levels were around 1,000Bq/kg or below at most of the locations (coasts: 500Bq/kg or below), and generally have remained constant or had a declining tendency.

(Rivers)

Cs-134 + Cs-137: 20-7,900Bq/kg (dried mud) (\*12-14,200Bq/kg (dried mud))

(Lakes)

Cs-134 + Cs-137: 151-2,530Bq/kg (dried mud) (\*460-8,200Bq/kg (dried mud))

(Coasts)

Cs-134 + Cs-137: ND-226Bq/kg (dried mud) (\*ND-780Bq/kg (dried mud))

<Reference> Number of locations by radioactive cesium concentration (500Bq/kg)  
Numbers in ( ) denote results measured on the previous occasion.

	500 or below	501 -1,000	1,001 -1,500	1,501 -2,000	2,001 -2,500	2,501 -3,000	3,001 or more	Total
Rivers	27 (22)	8 (9)	2 (8)	6 (1)	1 (2)	2 (4)	5 (5)	51 (51)
Lakes and headwaters	5 (2)	2 (9)	0 (1)	0 (2)	0 (0)	1 (0)	0 (2)	8 (16)
Coasts	8 (14)	0 (2)	-	-	-	-	-	8 (16)

(3) Surrounding Environment ((Lower detection limit: 10Bq/kg (dry))

(Rivers)

Cs-134 + Cs-137: 38-3,700Bq/kg (dry) (\*65-3,700Bq/kg (dry))

Spatial dose: 0.05-0.24μSv/h

(Lakes)

Cs-134 + Cs-137: 810-2,070Bq/kg (dry) (\*340-1,720Bq/kg (dry))

Spatial dose: 0.08-0.18μSv/h

(Annex for details)  
(Map attached)

#### Future Plans

MOE intends to continue to measure radioactive materials in water, sediment, etc. in rivers, lakes, etc. since concentrations of radioactive materials seem to show fluctuations, depending on locations, due to minor differences in sampling points or properties of samples of each survey.

ORiver: Water Quality Monitoring Results

No.	Sampling point				Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks	
	Water body	Point	Municipality	Sampling depth (m)				Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium				
												Cs-134	Cs-137			
1	Tonegawa River System	Shogengawa River	Fukamaohashi Bridge	Inzaishi City/Sakaemachi Town	2013/5/14	Sunny	2.3	0.0	25	29	10	11.0	<1	<1		
2		Shinbeibashi Bridge			2013/5/14	Sunny	1.5	0.0	21	29	11	17.0	<1	<1		
3		Nagatogawa River	Intake at Maeshinden Water Purification Plant			2013/5/14	Sunny	0.4	0.0	11	26	24	28.0	<1	<1	
4			Nagatobashi Bridge	Sakaemachi Town		2013/5/15	Cloudy	0.3	0.0	20	27	18	13.0	<1	<1	
5			Fujimibashi Bridge			2013/5/15	Sunny	1.0	0.0	22	23	12	9.3	<1	<1	
6		Ryudaigawa River	Ryumatsunobashi Bridge		Naritashi City	2013/6/4	Sunny	0.2	0.0	22	55	26	15.0	<1	<1	
7		Nekonogawa River	Shinkawa Floodgate			2013/6/4	Sunny	2.0	0.0	29	37	7	7.1	<1	<1	
8	Feeder Rivers of Teganuma Lake	Ohorigawa River	Kitakashiwabashi Bridge	Kashiwashi City	2013/5/15	Sunny	0.4	0.0	40	29	19	6.2	<1	<1		
9		Otsugawa River	Sannobashi Bridge, under	Kamagayashi City	2013/5/16	Cloudy	0.2	0.0	72	38	3	2.0	<1	<1		
10			Kaminumabashi Bridge		Kashiwashi City	2013/5/16	Cloudy	0.6	0.0	28	50	14	7.7	<1	<1	
11		Someiriotoshi	Someishinbashi Bridge			2013/5/16	Cloudy	0.6	0.0	24	34	16	7.0	<1	<1	
12		Kanayamaotoshi	Downstream of Karuizawasakaibashi Bridge	Kamagayashi City/Shiroishi City		2013/5/16	Cloudy	0.1	0.0	75	40	4	2.6	<1	<1	
13			Nauchibashi Bridge	Shiroishi City		2013/5/27	Cloudy	0.6	0.0	42	32	25	8.0	<1	<1	
14		Kamenarigawa River	Kamenaribashi Bridge		Inzaishi City	2013/5/27	Cloudy	1.0	0.0	35	32	10	7.5	<1	<1	
15	Feeder Rivers of Inbanuma Lake	Igusasu Channel	Downstream of Igusasu Channel	Kamagayashi City	2013/6/7	Cloudy	0.0	0.0	36	49	5	5.2	<1	<1		
16		Futaegawa River	Tomigayabashi Bridge	Funabashishi City/Shiroishi City	2013/5/17	Sunny	0.3	0.0	74	32	1	1.7	<1	<1		
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2013/5/17	Sunny	1.5	0.0	25	29	16	8.4	<1	<1		
18		Kannogawa River	Kannobashi Bridge		Yachiyoshi City	2013/5/17	Sunny	0.4	0.0	35	31	11	6.3	<1	<1	
19		Inba Discharge Channel (upper reaches)	Yachiyobashi Bridge			2013/5/27	Cloudy	3.3	0.0	17	16	30	16.0	<1	<1	
20		Tegurigawa River	Mumeibashi Bridge		Sakurashi City	2013/5/28	Cloudy	0.7	0.0	40	37	7	4.2	<1	<1	
21		Morotogawa River	Morotobashi Bridge		Inzaishi City	2013/5/28	Cloudy	1.0	0.0	20	27	18	13.0	<1	<1	
22		Kashimagawa River	Iwatombashi Bridge			2013/5/28	Cloudy	0.6	0.0	38	27	11	5.1	<1	<1	
23		Takasakigawa River	Ryutobashi Bridge		Sakurashi City	2013/5/28	Cloudy	0.7	0.0	24	33	17	11.0	<1	<1	
24		Kashimagawa River	Kashimabashi Bridge			2013/6/4	Sunny	2.8	0.0	28	38	11	6.1	<1	<1	
25		Inbasu Channel	Tsurumakibashi Bridge		Inzaishi City	2013/6/4	Cloudy	2.6	0.0	9	31	45	34.0	<1	<1	
26		Toneunga Canal	Ungabashi Bridge		Nagareyamashi City/Nodashi City	2013/5/31	Sunny	0.2	0.0	14	33	16	13.0	<1	<1	
27		Edogawa River	Nagareyamabashi Bridge		Nagareyamashi City/Misatoshi City	2013/5/31	Sunny	0.3	0.0	31	18	8	6.8	<1	<1	
28	Sakagawa River	Bentenbashi Bridge		Matsudoshi City	2013/6/5	Sunny	2.1	0.0	35	25	8	4.9	<1	<1		
29	Shinsakagawa River	Sakanebashi Bridge			2013/6/5	Sunny	0.6	0.0	37	31	9	5.0	<1	<1		
30	Edogawa River	Shinkatsushikabashi Bridge		Matsudoshi City/Katsushika City	2013/6/5	Sunny	0.4	0.0	20	17	14	9.2	<1	<1		
31		Ichikawabashi Bridge			2013/6/6	Cloudy	0.7	0.0	37	18	4	5.0	<1	<1		
32		Vicinity of Keiyo Road			Ichikawashi City/Edogawa City	2013/6/10	Cloudy	3.7	0.0	22	19	9	7.9	<1	<1	
33		Gyotoku Movable Weir (upper reaches)			Ichikawashi City	2013/6/10	Cloudy	4.3	0.0	24	21	6	6.0	<1	<1	
34		Shingyotokubashi Bridge				2013/6/6	Cloudy	0.2	0.0	27	3,560	11	5.2	<1	<1	
35		Edogawa Floodgate, down				2013/6/10	Cloudy	4.1	0.0	29	243	12	8.4	<1	<1	
36		8km Point to the estuary			Ichikawashi City/Edogawa City	2013/6/10	Cloudy	3.2	0.0	30	392	9	7.9	<1	<1	
37	Kyuedogawa River	Imabashi Bridge			2013/6/10	Cloudy	3.5	0.0	35	468	6	5.4	<1	<1		
38		Urayasubashi Bridge		Urayasushi City/Edogawa City	2013/6/11	Cloudy	1.5	0.0	32	1,050	9	6.5	<1	<1		
39	Mamagawa River	Nemoto Floodgate			2013/6/6	Cloudy	1.0	0.0	25	20	13	9.0	<1	<1		
40	Kokubugawa River	Suwadabashi Bridge			2013/6/6	Cloudy	0.9	0.0	58	52	3	2.9	<1	<1		
41	Harukigawa River	Before the confluence with Kokubugawa River			2013/6/6	Cloudy	0.6	0.0	39	77	8	4.0	<1	<1		
42	Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge			2013/5/31	Sunny	0.2	0.0	55	41	3	4.0	<1	<1		
43	Okashiwagawa River	Sengenbashi Bridge			3013/6/6	Cloudy	0.9	0.0	51	82	4	2.9	<1	<1		
44	Mamagawa River	Mitomaebashi Bridge			2013/6/7	Cloudy	2.2	0.0	50	974	3	3.4	<1	<1		
45	Ebigawa River	Yachiyobashi Bridge		Funabashishi City	2013/6/5	Sunny	2.8	0.0	39	779	5	5.0	<1	<1		
46	Inba Discharge Channel (lower reaches)	Shinhanamigawabashi Bridge			2013/6/5	Sunny	3.5	0.0	75	257	3	2.8	<1	<1		
47	Miyakogawa River	Miyakobashi Bridge		Chibashi City	2013/6/7	Cloudy	1.8	0.0	57	1,940	5	3.0	<1	<1		
48	Arakawa River System	Arakawa River Middle Reaches	Onarihashi Bridge	Konosushi City	2013/5/29	Cloudy	1.5	0.0	60	13	8	3.2	<1	<1		
49		Arakawa River Lower Reaches	Sasamehashi Bridge		Todashi City	2013/5/29	Cloudy	0.3	0.0	33	20	8	5.0	<1	<1	
50			Kasaibashi Bridge		Koto City/Edogawa City	2013/6/7	Sunny	2.3	0.0	30	3,200	12	5.1	<1	<1	
51	Sumidagawa River	Ryogokubashi Bridge		Chuo City	2013/6/11	Light rain	2.1	0.0	39	1,630	1	2.6	<1	<1		

\* Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.

ORiver: Sediment Monitoring Results

No.	Sampling point				Sampling date	Weather	Full depth (m)	General items			Concentration of radioactive material [Bq/kg (dried mud)]			Remarks	
	Water body	Point	Municipality	Mud sampling depth (cm)				Mud content %	Property	Radioactive cesium					
										Cs-134	Cs-137	Total			
1	Tonegawa River System	Shogengawa River	Fukamaohashi Bridge	Inzaishi City/Sakaemachi Town	2013/5/14	Sunny	2.3	5	40	Silt	600	1,200	1,800		
2			Shinbeibashi Bridge		2013/5/14	Sunny	1.5	5	83	Sand/gravel	<10	26	26		
3		Nagatogawa River	Intake at Maeshinden Water Purification Plant	Sakaemachi Town	2013/5/14	Sunny	0.4	5	44	Silt	130	290	420		
4					Nagatobashi Bridge	2013/5/15	Cloudy	0.3	5	69	Sand/silt	95	190	285	
5					Fujimbashi Bridge	2013/5/15	Sunny	1.0	5	54	Silt/sand	120	270	390	
6		Ryudaigawa River	Ryumatsunohashi Bridge	Naritashi City	2013/6/4	Sunny	0.2	5	80	Sand/gravel	76	160	236		
7		Nekonagawa River	Shinkawa Floodgate		2013/6/4	Sunny	2.0	5	33	Silt	240	480	720		
8	Feeder Rivers of Teganuma Lake	Ohorigawa River	Kitakashiwabashi Bridge	Kashiwashi City	2013/5/15	Sunny	0.4	5	47	Silt	2,700	5,200	7,900		
9		Otsugawa River	Sannobashi Bridge, under	Kamagayashi City	2013/5/16	Cloudy	0.2	5	61	Sand/gravel	500	1,100	1,600		
10			Kaminumabashi Bridge	Kashiwashi City	2013/5/16	Cloudy	0.6	5	29	Silt	2,200	4,500	6,700		
11		Someiritoshi	Someishinbashi Bridge		2013/5/16	Cloudy	0.6	5	80	Sand/gravel	95	210	305		
12		Kanayamaotoshi	Downstream of Karuizawasakaibashi Bridge	Kamagayashi City/Shiroishi City	2013/5/16	Cloudy	0.1	5	81	Sand/gravel	320	600	920		
13			Nauchibashi Bridge	Shiroishi City	2013/5/27	Cloudy	0.6	5	74	Sand/silt	430	850	1,280		
14		Kamenarigawa River	Kamenaribashi Bridge	Inzaishi City	2013/5/27	Cloudy	1.0	5	33	Silt/sand	1,200	2,400	3,600		
15	Feeder Rivers of Inbanuma Lake	Igusasuuro Channel	Downstream of Igusasuuro Channel	Kamagayashi City	2013/6/7	Cloudy	0.0	5	71	Sand	980	2,000	2,980		
16		Futaegawa River	Tomigayabashi Bridge	Funabashishi City/Shiroishi City	2013/5/17	Sunny	0.3	5	77	Sand	380	770	1,150		
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2013/5/17	Sunny	1.5	5	46	Silt	490	1,100	1,590		
18		Kannogawa River	Kannobashi Bridge	Yachiyoshi City	2013/5/17	Sunny	0.4	5	54	Sand/silt	940	1,900	2,840		
19		Inba Discharge Channel (upper reaches)	Yachiyobashi Bridge		2013/5/27	Cloudy	3.3	5	48	Silt	62	140	202		
20		Tegurigawa River	Mumcibashi Bridge	Sakurashi City	2013/5/28	Cloudy	0.7	5	80	Sand/silt	520	1,100	1,620		
21		Morotogawa River	Morotobashi Bridge	Inzaishi City	2013/5/28	Cloudy	1.0	5	27	Silt	610	1,300	1,910		
22		Kashimagawa River	Iwatombashi Bridge	Sakurashi City	2013/5/28	Cloudy	0.6	5	72	Sand/silt	84	200	284		
23		Takasakigawa River	Ryutobashi Bridge		2013/5/28	Cloudy	0.7	5	66	Sand/silt	140	310	450		
24		Kashimagawa River	Kashimabashi Bridge		2013/6/4	Sunny	2.8	5	75	Sand/silt	50	99	149		
25		Inbasuuro Channel	Tsurumakibashi Bridge	Inzaishi City	2013/6/4	Cloudy	2.6	5	51	Sand/silt	72	110	182		
26	E d o g a w a R i v e r S y s t e m	Toneunga Canal	Ungabashi Bridge	Nagareyamashi City/Nodashi City	2013/5/31	Sunny	0.2	5	57	Sand/gravel	640	1,300	1,940		
27		Edogawa River	Nagareyamabashi Bridge	Nagareyamashi City/Misatoshi City	2013/5/31	Sunny	0.3	5	73	Sand	61	130	191		
28		Sakagawa River	Bentenbashi Bridge	Matsudoshi City	2013/6/5	Sunny	2.1	5	59	Silt/sand	1,100	2,200	3,300		
29		Shinsakagawa River	Sakanebashi Bridge		2013/6/5	Sunny	0.6	5	72	Sand/gravel	750	1,600	2,350		
30		Edogawa River	Shinkatsushikabashi Bridge	Matsudoshi City/Katsushika City	2013/6/5	Sunny	0.4	5	53	Silt	300	590	890		
31					Ichikawabashi Bridge	2013/6/6	Cloudy	0.7	5	79	Sand/gravel	88	170	258	
32			Vicinity of Keiyo Road	Ichikawashi City/Edogawa City	2013/6/10	Cloudy	3.7	5	65	Sand/silt	120	260	380		
33			Gyotoku Movable Weir (upper reaches)		2013/6/10	Cloudy	4.3	5	53	Silt	210	450	660		
34		Shingyotokubashi Bridge	Ichikawashi City	2013/6/6	Cloudy	0.2	5	74	Sand	<10	20	20			
35		Edogawa Floodgate, down		2013/6/10	Cloudy	4.1	5	73	Sand	23	60	83			
36		8km Point to the estuary		Ichikawashi City/Edogawa City	2013/6/10	Cloudy	3.2	5	62	Sand/silt	93	190	283		
37		Kyuedogawa River	Imaibashi Bridge	Urayasushi City/Edogawa City	2013/6/10	Cloudy	3.5	5	75	Sand	18	30	48		
38		Urayasubashi Bridge	2013/6/11		Cloudy	1.5	5	42	Silt	230	470	700			
39		Mamagawa River	Nemoto Floodgate	Ichikawashi City	2013/6/6	Cloudy	1.0	5	79	Sand	160	320	480		
40		Kokubugawa River	Suwadabashi Bridge		2013/6/6	Cloudy	0.9	5	71	Sand	250	540	790		
41		Harukigawa River	Before the confluence with Kokubugawa River		2013/6/6	Cloudy	0.6	5	71	Sand	250	480	730		
42	Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge	2013/5/31		Sunny	0.2	5	71	Sand/gravel	160	280	440			
43	Okashiwagawa River	Sengenbashi Bridge	2013/6/6		Cloudy	0.9	5	77	Sand/gravel	140	300	440			
44	Mamagawa River	Mitomaebashi Bridge	2013/6/7		Cloudy	2.2	5	32	Silt	2,000	3,800	5,800			
45	Ebigawa River	Yachiyobashi Bridge	Funabashishi City		2013/6/5	Sunny	2.8	5	62	Silt	140	270	410		
46	Inba Discharge Channel (lower reaches)	Shinhanamigawabashi Bridge	Chibashi City	2013/6/5	Sunny	3.5	5	49	Silt/sand	280	680	960			
47	Miyakogawa River	Miyakobashi Bridge		2013/6/7	Cloudy	1.8	5	62	Sand/silt	68	170	238			
48	Arakawa River System	Arakawa River Middle Reaches	Onarihashi Bridge	Konosushi City	2013/5/29	Cloudy	1.5	5	76	Sand	11	23	34		
49		Arakawa River Lower Reaches	Sasamehashi Bridge	Todashi City	2013/5/29	Cloudy	0.3	5	78	Sand	15	26	41		
50			Kasaibashi Bridge	Koto City/Edogawa City	2013/6/7	Sunny	2.3	5	39	Silt	78	170	248		
51		Sumidagawa River	Ryogokubashi Bridge	Chuo City	2013/6/11	Light rain	2.1	5	35	Silt	140	310	450		

\* Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.

ORiver: Surrounding Environment Monitoring Results

No.	Sampling point			Sampling date	Weather	Left bank				Right bank				Remarks			
	Water body	Point	Municipality			Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose (μSv/h)	Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose (μSv/h)		
							Radioactive cesium					Radioactive cesium					
							Cs-134	Cs-137	Total			Cs-134	Cs-137			Total	
1	Tonegawa River System	Shogengawa River	Fukamaohashi Bridge	Inzaishi City/Sakaemachi Town	2013/5/14	Sunny	Loamy	390	770	1,160	0.11	Loamy	380	790	1,170	0.15	
2		Shinbeibashi Bridge	Inzaishi City/Sakaemachi Town	2013/5/14	Sunny	Loamy	110	200	310	0.07	Loamy	230	450	680	0.08		
3		Intake at Maeshinden Water Purification Plant		2013/5/14	Sunny	Loamy	240	520	760	0.10	Loamy	120	220	340	0.07		
4		Nagatogawa River	Nagatobashi Bridge	Sakaemachi Town	2013/5/15	Cloudy	Loamy	59	87	146	0.06	Loamy	180	370	550	0.07	
5		Fujimibashi Bridge		2013/5/15	Sunny	Loamy	340	680	1,020	0.05	Loamy	170	340	510	0.08		
6		Ryudaigawa River	Ryumatsunohashi Bridge	Naritashi City	2013/6/4	Sunny	Loamy	240	530	770	0.12	Loamy	150	360	510	0.11	
7		Nekonagawa River	Shinkawa Floodgate		2013/6/4	Sunny	Loamy	66	120	186	0.09	Loamy	63	150	213	0.07	
8	Feeder Rivers of Teganuma Lake	Ohorigawa River	Kitakashiwabashi Bridge	Kashiwashi City	2013/5/15	Sunny	Loamy	530	1,100	1,630	0.20	Loamy	930	1,900	2,830	0.24	
9		Otsugawa River	Sannobashi Bridge, under	Kamagayashi City	2013/5/16	Cloudy	Loamy	920	1,800	2,720	0.17	Loamy	240	510	750	0.12	
10		Kaminumabashi Bridge	Kashiwashi City	2013/5/16	Cloudy	Loamy	410	790	1,200	0.15	Loamy	88	170	258	0.17		
11		Someiriotoshi	Someishinbashi Bridge		2013/5/16	Cloudy	Loamy	390	690	1,080	0.09	Loamy	570	1,100	1,670	0.10	
12		Downstream of Karuizawasakaibashi Bridge	Kamagayashi City/Shiroishi City	2013/5/16	Cloudy	Loamy	420	850	1,270	0.13	Loamy	530	1,000	1,530	0.11		
13		Kanayamaotoshi	Nauchibashi Bridge	Shiroishi City	2013/5/27	Cloudy	Loamy	380	790	1,170	0.12	Loamy	850	1,700	2,550	0.14	
14		Kamenarigawa River	Kamenaribashi Bridge	Inzaishi City	2013/5/27	Cloudy	Loamy	670	1,300	1,970	0.10	Loamy	370	780	1,150	0.11	
15	Feeder Rivers of Inbanuma Lake	Igusasuuro Channel	Downstream of Igusasuuro Channel	Kamagayashi City	2013/6/7	Cloudy	Loamy	270	550	820	0.14	Loamy	350	720	1,070	0.11	
16		Futaegawa River	Tomigayabashi Bridge	Funabashishi City/Shiroishi City	2013/5/17	Sunny	Loamy	380	800	1,180	0.10	Loamy	310	630	940	0.11	
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2013/5/17	Sunny	Loamy	290	530	820	0.10	Loamy	120	210	330	0.08	
18		Kannogawa River	Kannobashi Bridge	Yachiyoshi City	2013/5/17	Sunny	Loamy	330	650	980	0.11	Loamy	290	570	860	0.11	
19		Inba Discharge Channel (upper reaches)	Yachiyobashi Bridge		2013/5/27	Cloudy	Loamy	290	620	910	0.09	Loamy	330	680	1,010	0.10	
20		Tegurigawa River	Muneibashi Bridge	Sakurashi City	2013/5/28	Cloudy	Loamy	330	720	1,050	0.09	Loamy	290	620	910	0.11	
21		Morotogawa River	Morotobashi Bridge	Inzaishi City	2013/5/28	Cloudy	Loamy	220	490	710	0.07	Loamy	370	710	1,080	0.11	
22		Kashimagawa River	Iwatombashi Bridge		2013/5/28	Cloudy	Loamy	57	130	187	0.06	Loamy	90	180	270	0.06	
23		Takasakigawa River	Ryutobashi Bridge	Sakurashi City	2013/5/28	Cloudy	Loamy	88	210	298	0.07	Loamy	150	350	500	0.07	
24		Kashimagawa River	Kashimabashi Bridge		2013/6/4	Sunny	Loamy	110	200	310	0.06	Loamy	110	230	340	0.07	
25		Inbasuuro Channel	Tsurumakibashi Bridge	Inzaishi City	2013/6/4	Cloudy	Loamy	190	350	540	0.12	Loamy	120	250	370	0.11	
26	Edogawa River	Toneunga Canal	Ungabashi Bridge	Nagareyamashi City/Nodashi City	2013/5/31	Sunny	Loamy	260	510	770	0.14	Loamy	190	350	540	0.16	
27		Edogawa River	Nagareyamabashi Bridge	Nagareyamashi City/Misatoshi City	2013/5/31	Sunny	Loamy	440	980	1,420	0.16	Loamy	260	530	790	0.16	
28		Sakagawa River	Bentenbashi Bridge	Matsudoshi City	2013/6/5	Sunny	-	-	-	-	0.12	-	-	-	-	0.13	Soil not exposed
29		Shinsakagawa River	Sakanebashi Bridge		2013/6/5	Sunny	-	-	-	-	0.10	-	-	-	-	0.12	Soil not exposed
30		Shinkatsushikabashi Bridge	Matsudoshi City/Katsushika City	2013/6/5	Sunny	Loamy	390	820	1,210	0.16	Loamy	540	1,000	1,540	0.15		
31		Ichikawabashi Bridge	Ichikawashi City/Edogawa City	2013/6/6	Cloudy	Loamy	200	410	610	0.13	Loamy	500	1,000	1,500	0.18		
32		Vicinity of Keiyo Road		2013/6/10	Cloudy	Loamy	240	540	780	0.12	Loamy	300	650	950	0.12		
33		Gyotoku Movable Weir (upper reaches)	Ichikawashi City	2013/6/10	Cloudy	Loamy	240	530	770	0.08	Loamy	230	470	700	0.13		
34		Shingyotokubashi Bridge		2013/6/6	Cloudy	Loamy	83	160	243	0.09	Loamy	15	23	38	0.06		
35		Edogawa Floodgate, down		2013/6/10	Cloudy	Loamy	340	700	1,040	0.14	Loamy	230	470	700	0.10		
36		8km Point to the estuary	Ichikawashi City/Edogawa City	2013/6/10	Cloudy	Loamy	230	500	730	0.12	Loamy	260	490	750	0.15		
37	Kyuedogawa River	Imaibashi Bridge		2013/6/10	Cloudy	-	-	-	-	0.08	Loamy	260	480	740	0.09	Soil not exposed	
38		Urayasubashi Bridge	Urayasushi City/Edogawa City	2013/6/11	Cloudy	Loamy	1,200	2,500	3,700	0.09	Loamy	210	480	690	0.11		
39		Mamagawa River	Nemoto Floodgate		2013/6/6	Cloudy	Loamy	520	1,100	1,620	0.12	-	-	-	-	0.08	Soil not exposed
40		Kokubugawa River	Suwadabashi Bridge		2013/6/6	Cloudy	-	-	-	-	0.09	-	-	-	-	0.10	Soil not exposed
41		Harukigawa River	Before the confluence with Kokubugawa River	Ichikawashi City	2013/6/6	Cloudy	-	-	-	-	0.10	-	-	-	-	0.09	Soil not exposed
42	Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge		2013/5/31	Sunny	Loamy	440	780	1,220	0.10	Loamy	260	580	840	0.10		
43	Okashiwagawa River	Sengenbashi Bridge		2013/6/6	Cloudy	-	-	-	-	0.05	-	-	-	-	0.06	Soil not exposed	
44	Mamagawa River	Mitomaebashi Bridge		2013/6/7	Cloudy	Loamy	180	380	560	0.08	Loamy	150	290	440	0.09		
45	Ebigawa River	Yachiyobashi Bridge	Funabashishi City	2013/6/5	Sunny	Loamy	290	610	900	0.07	Loamy	300	620	920	0.08		
46	Inba Discharge Channel (lower reaches)	Shinhamamigawabashi Bridge	Chibashi City	2013/6/5	Sunny	Loamy	120	230	350	0.09	Loamy	220	470	690	0.08		
47	Miyakogawa River	Miyakobashi Bridge		2013/6/7	Cloudy	Sandy	39	74	113	0.07	Sandy	350	700	1,050	0.08		
48	Arakawa River System	Arakawa River Middle Reaches	Onarhashi Bridge	Konosushi City	2013/5/29	Cloudy	Loamy	16	38	54	0.07	Loamy	28	53	81	0.06	
49		Arakawa River Lower Reaches	Sasamehashi Bridge	Todashi City	2013/5/29	Cloudy	Loamy	87	170	257	0.05	Loamy	93	200	293	0.06	
50		Kasabashi Bridge	Koto City/Edogawa City	2013/6/7	Sunny	Loamy	420	860	1,280	0.09	Loamy	260	480	740	0.11		
51	Sumidogawa River	Ryogokubashi Bridge	Chuo City	2013/6/11	Light rain	-	-	-	-	0.06	-	-	-	-	0.06	Soil not exposed	

\* Samples for surrounding environment (soil) were generally collected from 5 points in 3m square in the river terrace, etc., and mixed. Depending on the site situation, factors, such as the area of sampling may be much smaller, may cause figures to vary significantly.

\* Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.

\* Air dose was measured with a survey meter, TCS-172B of Hitachi-Aloka Medical, Ltd.

## OLake and Headwater: Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items				Radioactive material concentrations (Bq)		Remarks	
No.	Point		Sampling depth (m)				Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium			
											Cs-134	Cs-137		
1	Teganuma Lake	Fusashita	Surface layer	2013/5/20	Light rain	2.6	0.5	0.5	28	20	17.0	<1	<1	
		Lower layer	1.6				28		24	18.0	<1	<1		
2	Teganuma Lake	Shimoteganuma Chuo	Surface layer	2013/5/20	Light rain	1.6	0.5	0.4	31	32	30.0	<1	<1	
		Lower layer	0.6				31		29	28.0	<1	<1		
3	Teganuma Lake	Teganuma Chuo	Surface layer	2013/5/20	Light rain	1.7	0.5	0.4	26	23	20.0	<1	<1	
		Lower layer	0.7				27		32	20.0	<1	<1		
4	Teganuma Lake	Nedoshita	Surface layer	2013/5/20	Light rain	2.3	0.5	0.8	24	9	7.3	<1	<1	
		Lower layer	1.3				24		12	7.7	<1	<1		
5	Inbanuma Lake	Kita Inbanuma Chuo	Surface layer	2013/5/20	Light rain	1.6	0.5	0.6	29	23	14.0	<1	<1	
		Lower layer	0.6				29		21	13.0	<1	<1		
6	Inbanuma Lake	Ipponmatsushita	Surface layer	2013/5/20	Light rain	1.6	0.5	0.5	26	32	28.0	<1	<1	
		Lower layer	0.6				26		37	26.0	<1	<1		
7	Inbanuma Lake	Lower area of Josuido water intake	Surface layer	2013/5/20	Light rain	1.7	0.5	0.5	27	22	18.0	<1	<1	
		Lower layer	0.7				27		34	18.0	<1	<1		
8	Inbanuma Lake	Asobashi Bridge	Surface layer	2013/5/20	Light rain	1.8	0.5	0.7	27	19	10.0	<1	<1	
		Lower layer	0.8				28		18	13.0	<1	<1		

• Sampling points are listed from north to south.

## OLake and Headwater: Sediment and Surrounding Environment (Lake Shore) Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	Sediment					Surrounding environment (lake shore)					Remarks
No.	Point		General items				Concentration of radioactive material [Bq/kg (dried m...)]		Property	Soil							
			Mud sampling depth (cm)				Mud content (%)	Property		Radioactive cesium			Property	Concentration of radioactive material [Bq/kg (dry)]			
				Cs-134	Cs-137	Total											
1	Teganuma Lake	Fusashita	2013/5/20	Light rain	2.6	3	62	Silt/clay	220	440	660	-	-	-	-	-	-
2		Shimoteganuma Chuo	2013/5/20	Light rain	1.6	10	66	Silt	140	280	420	Loamy	570	1,100	1,670	0.11	-
3		Teganuma Chuo	2013/5/20	Light rain	1.7	8	68	Silt	140	280	420	-	-	-	-	-	-
4		Nedoshita	2013/5/20	Light rain	2.3	10	64	Silt	830	1,700	2,530	Loamy	670	1,400	2,070	0.18	-
5	Inbanuma Lake	Kita Inbanuma Chuo	2013/5/20	Light rain	1.6	10	68	Silt	51	100	151	Loamy	320	610	930	0.16	-
6		Ipponmatsushita	2013/5/20	Light rain	1.6	10	70	Silt	55	97	152	-	-	-	-	-	-
7		Lower area of Josuido water intake	2013/5/20	Light rain	1.7	7	69	Silt	110	230	340	-	-	-	-	-	-
8		Asobashi Bridge	2013/5/20	Light rain	1.8	3	75	Sand/silt	270	500	770	Loamy	260	550	810	0.08	-

• Samples for surrounding environment (soil) were generally collected from 5 points in 3m square in the river terrace, etc., and mixed. Depending on the site situation, factors, such as the area of sampling may be much smaller, may cause figures to vary significantly.

• Sampling points are listed from north to south.

• Air dose was measured with a survey meter, TCS-172B of Hitachi-Aloka Medical, Ltd.

### Coast: Water Quality Monitoring Results

Sampling point			Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks
No.	Water body					Sampling depth (m)	Secchi disk depth (m)	Salinity (%)	SS (mg/L)	Turbidity	Radioactive cesium		
											Cs-134	Cs-137	
1	Tokyowan Bay 7	Offshore of Yorogawa River Estuary	2013/6/3	Cloudy	9.5	0.5	5.2	28.3	1	1	<1	<1	
		Lower layer	-	-	-	8.5	-	30.4	1	1	<1	<1	
2	Tokyowan Bay 5	Offshore of Miyakogawa River Estuary	2013/6/3	Cloudy	8.5	0.5	5.0	27.4	1	1	<1	<1	
		Lower layer	-	-	-	7.5	-	30.5	2	1	<1	<1	
3	Coastal sea area of Makuhari	Offshore of Inbanuma Discharge Channel	2013/6/3	Cloudy	5.1	0.5	3.5	27.2	2	2	<1	<1	
		Lower layer	-	-	-	4.1	-	27.9	2	1	<1	<1	
4	Approx. 1 km offshore of Ebigawa River Estuary	Coastal area of Keiyo Port (Ebigawa River Estuary)	2013/6/3	Cloudy	6.5	0.5	3.1	27.2	2	2	<1	<1	
		Lower layer	-	-	-	5.5	-	28.5	2	1	<1	<1	
5	Approx. 1 km offshore of Edogawa River Estuary	Coastal area of Keiyo Port (Ebigawa River Estuary)	2013/6/3	Cloudy	5.8	0.5	2.2	26.0	3	3	<1	<1	
		Lower layer	-	-	-	4.8	-	27.4	3	3	<1	<1	
6	Approx. 1 km offshore of Kyuedogawa River Estuary	Offshore of Kyuedogawa River Estuary	2013/6/13	Light rain	7.6	0.5	1.4	22.2	6	5	<1	<1	
		Lower layer	-	-	-	6.6	-	26.7	8	6	<1	<1	
7	St-8	Offshore of Arakawa River/Kyuedogawa River Estuaries	2013/6/13	Light rain	4.8	0.5	0.7	17.8	12	8	<1	<1	
		Lower layer	-	-	-	3.8	-	21.1	13	7	<1	<1	
8	Southwestern area of Toyosu Wharf	Offshore of Sumidagawa River Estuary	2013/6/13	Light rain	10.2	0.5	1.7	23.6	2	3	<1	<1	
		Lower layer	-	-	-	9.2	-	26.8	2	2	<1	<1	

\* Sampling points are listed from north to south.

### Coast: Sediment Monitoring Results

Sampling point			Sampling date	Weather	Full depth (m)	General items		Concentration of radioactive material [Bq/kg (dried mud)]			Remarks
No.	Water body					Mud content %	Property	Radioactive cesium			
								Cs-134	Cs-137	Total	
1	Tokyowan Bay 7	Offshore of Yorogawa River Estuary	2013/6/3	Cloudy	9.5	48.1	Silt	<10	<10	-	-
2	Tokyowan Bay 5	Offshore of Miyakogawa River Estuary	2013/6/3	Cloudy	8.5	44.5	Silt	<10	19	19	-
3	Coastal sea area of Makuhari	Offshore of Inbanuma Discharge Channel	2013/6/3	Cloudy	5.1	74.1	Silt	<10	<10	-	-
4	Approx. 1 km offshore of Ebigawa River Estuary	Coastal area of Keiyo Port (Ebigawa River Estuary)	2013/6/3	Cloudy	6.5	71.0	Sand/silt	<10	<10	-	-
5	Approx. 1 km offshore of Edogawa River Estuary	Coastal area of Keiyo Port (Edogawa River Estuary)	2013/6/3	Cloudy	5.8	67.2	Sand/silt	13	25	38	-
6	Approx. 1 km offshore of Kyuedogawa River Estuary	Offshore of Kyuedogawa River Estuary	2013/6/13	Light rain	7.6	35.8	Silt	76	150	226	-
7	St-8	Offshore of Arakawa River/Kyuedogawa River Estuaries	2013/6/13	Light rain	4.8	37.6	Silt	28	69	97	-
8	Southwestern area of Toyosu Wharf	Offshore of Sumidagawa River Estuary	2013/6/13	Light rain	10.2	25.8	Silt	<10	12	12	-

\* Sampling points are listed from north to south.



