

(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 22-June 29, 2012 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

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

(Rivers: 51 locations, Lakes: 8 locations, Sea areas: 7 locations)

(2) Survey Method

- Measurement of concentrations of radioactive materials (radioactive cesium (Cs-134 and Cs-137) etc.) 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)

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

(Rivers)

Cs-134, Cs-137: Not detectable (ND) at any location

(*ND at any location)

(Lakes and headwaters)

Cs-134, Cs-137: Not detectable at any location

(*ND at any location)

(Coasts)

Cs-134, Cs-137: 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))

(Rivers)

Cs-134: ND-8,200Bq/kg (dried mud)

Cs-137: 19-12,000Bq/kg (dried mud)

(*Cs-134: 12-3,900Bq/kg (dried mud))

(*Cs-137: 23-5,100Bq/kg (dried mud))

(Lakes and headwaters)

Cs-134: 220-2,200Bq/kg (dried mud)

Cs-137: 380-3,100Bq/kg (dried mud)

(*Cs-134: 170-3,100Bq/kg (dried mud))

(*Cs-137: 270-4,300Bq/kg (dried mud))

(Coasts)

Cs-134: ND-190Bq/kg (dried mud)

Cs-137: ND-300Bq/kg (dried mud)

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

(Rivers)

Cs-134: 15-1,700Bq/kg (dry)

Cs-137: 21-2,400Bq/kg (dry)

(*Cs-134: 85-1,900Bq/kg (dry), (*Cs-137: 130-2,500Bq/kg (dry))

Spatial dose: 0.06-0.42 μ Sv/h

(Lakes and headwaters)

Cs-134: 100-470Bq/kg (dry)

Cs-137: 150-740Bq/kg (dry)

(*Cs-134: 340-1,000Bq/kg (dry), *Cs-137: 510-1,600Bq/kg (dry))

Spatial dose: 0.11-0.23 μ Sv/h

(Annex for details)

(Map attached)

Future Plans

In coordination with relevant organizations, MOE intends to continue to measure radioactive materials in water, sediment, etc. in rivers, lakes, etc. in Fukushima Prefecture, its neighboring prefectures, etc.

○River: Water Quality Monitoring Results

No.	Sampling point			Sampling date	Weather	Full depth m	General items					Concentration of radioactive material Bq/L			Remarks					
	Water body	Point	Municipality				Sampling depth m	Transparency cm	Electrical conductivity mS/m	SS mg/L	Turbidity	Radioactive iodine I-131	Radioactive cesium Cs-134 Cs-137							
1	Tonegawa River System	Shogengawa River	Fukamashashi Bridge	Inzaishi City/Sakaemachi Town	2012/6/1	Cloudy	1.90	0.0	24	23	9	4	<1	<1	<1	<1				
2		Shimbeiashi Bridge	Inzaishi City/Sakaemachi Town	2012/6/1	Sunny	1.50	0.0	18	25	15	6	<1	<1	<1	<1	<1				
3		Intake at Masshinden Water Purification Plant	Inzaishi City/Sakaemachi Town	2012/6/1	Sunny	0.40	0.0	21	26	18	7	<1	<1	<1	<1	<1				
4		Nagatogawa River	Nagatobashi Bridge	Inzaishi City/Sakaemachi Town	2012/5/31	Cloudy	0.20	0.0	17	25	8	<1	<1	<1	<1	<1				
5		Fujimibashi Bridge	Sakaemachi Town	2012/5/31	Sunny	0.90	0.0	22	25	13	4	<1	<1	<1	<1	<1				
6		Ryudagawa River	Ryumatsunobashi Bridge	Naritashi City/Sakaemachi Town	2012/5/31	Cloudy	0.25	0.0	31	51	13	6	<1	<1	<1	<1	<1			
7		Nekonagawa River	Shinkawa Floodgate	Naritashi City	2012/5/31	Cloudy	1.70	0.0	37	77	9	4	<1	<1	<1	<1	<1			
8	Feeder Rivers of Teganuma	Ohorigawa River	Kitakashiwashi Bridge	Kashiwashi City	2012/5/22	Rain	0.75	0.0	67	38	4	1	<1	<1	<1	<1				
9		Otagawa River	Sannobashi Bridge, under	Kamagayashi City	2012/5/22	Rain	0.10	0.0	10	19	31	7	<1	<1	<1	<1				
10		Otagawa River	Kaminumabashi Bridge	Kashiwashi City	2012/5/22	Rain	0.30	0.0	39	47	12	6	<1	<1	<1	<1				
11	Lake	Someritotoshi	Someishinbashi Bridge	Kashiwashi City	2012/5/22	Rain	0.80	0.0	24	21	12	6	<1	<1	<1	<1				
12		Kanayamaotoshi	Downstream of Karuzawasukaibashi Bridge	Kamagayashi City/Usuisu City	2012/5/23	Sunny	1.70	0.0	36	17	4	3	<1	<1	<1	<1				
13	Rivers of Inbanuma	Nauchibashi Bridge	Usuisu City	2012/5/23	Sunny	0.60	0.0	30	25	8	4	<1	<1	<1	<1	<1				
14		Kamenarigawa River	Kamenaribashi Bridge	Inzaishi City	2012/5/23	Cloudy	0.60	0.0	31	24	5	5	<1	<1	<1	<1				
15		Igasuuro Channel	Downstream of Igasuuro Channel	Kamagayashi City	2012/5/23	Sunny	0.05	0.0	57	20	4	3	<1	<1	<1	<1				
16		Futacagawa River	Futacagabashi Bridge	Futabashi City/Usuisu City	2012/5/24	Sunny	0.30	0.0	>100	33	2	2	<1	<1	<1	<1				
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2012/5/24	Cloudy	1.50	0.0	52	23	9	6	<1	<1	<1	<1				
18		Kannogawa River	Kannobashi Bridge	Yachiyoshi City	2012/5/24	Cloudy	0.70	0.0	77	30	9	3	<1	<1	<1	<1				
19		Iba Discharge Channel (upper reaches)	Yachiyoshi Bridge	Yachiyoshi City	2012/5/24	Cloudy	3.30	0.0	26	24	21	9	<1	<1	<1	<1				
20		Tegurigawa River	Mumebashi Bridge	Sakurashi City	2012/5/25	Cloudy	0.70	0.0	78	32	7	3	<1	<1	<1	<1				
21		Morotogawa River	Morotobashi Bridge	Inzaishi City	2012/5/25	Cloudy	1.00	0.0	31	22	8	6	<1	<1	<1	<1				
22		Kashimogawa River	Iwatobashi Bridge	Sakurashi City	2012/5/25	Cloudy	1.00	0.0	71	23	6	3	<1	<1	<1	<1				
23		Takasakigawa River	Ryutobashi Bridge	Sakurashi City	2012/5/25	Cloudy	0.70	0.0	59	31	8	4	<1	<1	<1	<1				
24		Kashimogawa River	Kashimabashi Bridge	Sakurashi City	2012/5/23	Cloudy	2.30	0.0	47	31	11	6	<1	<1	<1	<1				
25		Ibasuuro Channel	Tsuumakibashi Bridge	Inzaishi City	2012/6/5	Cloudy	2.80	0.0	19	25	17	7	<1	<1	<1	<1				
26		Edogawa River System	Toneunga Canal	Ungabashi Bridge	Nagareyamashi City	2012/6/5	Cloudy	0.30	0.0	30	40	22	9	<1	<1	<1	<1			
27	Edogawa River		Nagareyamabashi Bridge	Nagareyamashi City/Misatoshi City	2012/6/5	Cloudy	0.50	0.0	34	18	4	2	<1	<1	<1	<1				
28	Sakagawa River		Bentenbashi Bridge	Matsudoshi City	2012/6/6	Cloudy	2.00	0.0	37	30	7	4	<1	<1	<1	<1				
29	Shimsakagawa River		Sakabashi Bridge	Matsudoshi City	2012/6/6	Rain	0.60	0.0	45	31	13	4	<1	<1	<1	<1				
30	Shimkatsushikabashi Bridge		Matsudoshi City/Katsushika City	2012/6/6	Rain	0.60	0.0	55	18	3	2	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)				
31	Edogawa River		Ichikawabashi Bridge	Ichikawashi City/Edogawa City	2012/6/8	Cloudy	0.30	0.0	55	21	5	2	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)			
32	Vicinity of Kevo Road		Ichikawashi City/Edogawa City	2012/6/29	Cloudy	2.90	0.0	35	21	6	3	<1	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)			
33	Gvotoku Movable Weir (upper reaches)		Ichikawashi City	2012/6/29	Cloudy	3.70	0.0	39	32	3	3	<1	<1	<1	<1	<1	<1			
34	Shingyotokubashi Bridge		Ichikawashi City	2012/6/8	Cludny, then sunny	0.20	0.0	17	3,240	18	5	<1	<1	<1	<1	<1	<1			
35	Edogawa Floodgate, down		Ichikawashi City/Edogawa City	2012/6/6	Cloudy	3.30	0.0	62	19	2	2	<1	<1	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)		
36	8 km Point to the estuary		Urayasushi City/Edogawa City	2012/6/29	Cloudy	5.60	0.0	38	20	3	2	<1	<1	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)		
37	Kyuedogawa River		Imabashi Bridge	Urayasushi City/Edogawa City	2012/6/29	Cloudy	4.60	0.0	36	25	3	1	<1	<1	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)	
38	Urayasubashi Bridge		Urayasushi City/Edogawa City	2012/6/1	Cloudy	5.40	0.0	38	39	3	2	<1	<1	<1	<1	<1	<1	<1	(Chiba Prefecture, Tokyo Prefecture)	
39	Mamagawa River		Nemoto Floodgate	Ichikawashi City	2012/6/7	Sunny	0.70	0.0	50	21	6	3	<1	<1	<1	<1	<1	<1	<1	
40	Kokubugawa River		Sawabashi Bridge	Ichikawashi City	2012/6/7	Sunny	0.30	0.0	50	45	12	6	<1	<1	<1	<1	<1	<1	<1	
41	Harukigawa River		Before the confluence with Kokubugawa River	Ichikawashi City	2012/6/7	Sunny	0.20	0.0	47	55	6	4	<1	<1	<1	<1	<1	<1	<1	
42	Hasen-okashiwagawa River		Downstream of Nakazawashinbashi Bridge	Kamagayashi City/Ichikawashi City	2012/6/7	Sunny	0.50	0.0	60	43	4	3	<1	<1	<1	<1	<1	<1	<1	
43	Okashiwagawa River		Senzenbashi Bridge	Ichikawashi City	2012/6/7	Sunny	0.50	0.0	46	45	5	3	<1	<1	<1	<1	<1	<1	<1	
44	Mamagawa River		Mitonabashi Bridge	Ichikawashi City	2012/6/8	Sunny	2.10	0.0	53	330	4	3	<1	<1	<1	<1	<1	<1	<1	
45	Ihigawa River	Yachiyoshi Bridge	Futabashi City	2012/6/1	Sunny	1.50	0.0	>100	0	1	1	<1	<1	<1	<1	<1	<1	<1		
46	Iba Discharge Channel (lower reaches)	Shinhanamigawabashi Bridge	Chibashi City	2012/6/1	Sunny	3.50	0.0	52	2	<1	<1	<1	<1	<1	<1	<1	<1	<1		
47	Miyakogawa River	Miyabashi Bridge	Chibashi City	2012/6/1	Rain	3.60	0.0	51	1	<1	<1	<1	<1	<1	<1	<1	<1	<1		
48	Arakawa River System	Arakawa River Middle Reaches	Onaribashi Bridge	Konosushi City	2012/6/15	Sunny	2.00	0.0	81	17	2	2	<1	<1	<1	<1	<1	<1	(Saitama Prefecture)	
49		Sasamehashi Bridge	Todashi City/Wakoshi City/Itabashi City	2012/6/15	Sunny	0.20	0.0	58	26	5	4	<1	<1	<1	<1	<1	<1	<1	<1	(Saitama Prefecture, Tokyo Prefecture)
50		Arakawa River Lower Reaches	Kasabashi Bridge	Koto City/Edogawa City	2012/6/11	Cloudy	1.40	0.0	10	560	32	16	<1	<1	<1	<1	<1	<1	<1	(Tokyo Prefecture)
51	Sumidagawa River	Ryogokubashi Bridge	Chuo City/Sumida City	2012/6/11	Cloudy	2.40	0.0	95	729	<1	1	<1	<1	<1	<1	<1	<1	<1	(Tokyo Prefecture)	

*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 iodine I-131	Radioactive cesium Cs-134 Cs-137				
1	Tonegawa River System	Shogengawa River	Fukamaobashi Bridge	Inzaishi City/Sakaemachi Town	2012/6/1	Cloudy	1.90	10	62	Silt	<30	680	980		
2		Shinbeibashi Bridge	Inzaishi City/Sakaemachi Town	2012/6/1	Sunny	1.50	3	84	Sand	<30	50	50	99		
3		Intake at Maeshinden Water Purification Plant	Inzaishi City/Sakaemachi Town	2012/6/1	Sunny	0.40	3	44	Sludge	<30	500	730			
4		Nagatogawa River	Nagatobashi Bridge	Inzaishi City/Sakaemachi Town	2012/5/31	Cloudy	0.20	3	77	Silt	<30	190	310		
5		Fujimbashi Bridge	Sakaemachi Town	2012/5/31	Sunny	0.90	10	69	Silt	<30	230	320			
6		Ryudajigawa River	Ryumatsumobashi Bridge	Narashi City/Sakaemachi Town	2012/5/31	Cloudy	0.25	5	89	Sandy	<30	58	89		
7		Nekomagawa River	Shinkawa Floodgate	Narashi City	2012/5/31	Cloudy	1.70	6	53	Silt	<30	370	540		
8	Feeder Rivers of Tegayama Lake	Ohorigawa River	Kitakashiwabashi Bridge	Kashiwashashi City	2012/5/22	Rain	0.75	3	67	Sludge	<33	4,900	7,100		
9		Otsugawa River	Sambobashi Bridge, under	Kamagayashi City	2012/5/22	Rain	0.10	10	71	Sand/mud/gravel	<30	150	240		
10		Kaminumabashi Bridge	Kashiwashashi City	2012/5/22	Rain	0.30	3	45	Sludge	<50	8,200	12,000			
11	Feeder Rivers of Inbanuma Lake	Someiriotoshi	Someishinbashi Bridge	Kashiwashashi City	2012/5/22	Rain	0.80	5	82	Sandy	<30	410	580		
12		Kanayamaotoshi	Downstream of Kanizawasakaibashi Bridge	Kamagayashi City/Usuishi City	2012/5/23	Sunny	1.70	1	47	Sludge	<35	2,900	4,200		
13		Nautsuhashi Bridge	Usuishi City	2012/5/23	Sunny	0.60	5	76	Sand/skeletal	<30	700	1,100			
14		Kamenarigawa River	Kamenaribashi Bridge	Inzaishi City	2012/5/23	Cloudy	0.60	5	87	Loamy	<30	240	360		
15		Igasasuiro Channel	Downstream of Igasasuiro Channel	Kamagayashi City	2012/5/23	Sunny	0.05	3	86	Sandy	<30	1,300	1,900		
16		Futaegawa River	Tomiyabashi Bridge	Funabashashi City/Usuishi City	2012/5/24	Sunny	0.20	2	93	Sandy	<30	670	970		
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2012/5/24	Cloudy	1.50	3	74	Mud (sandy condition)	<30	870	1,300		
18	Feeder Rivers of Inbanuma Lake	Kannogawa River	Kannobashi Bridge	Yachiyoshi City	2012/5/24	Cloudy	0.70	3	50	Silty	<30	2,000	3,000		
19		Inba Discharge Channel (upper reaches)	Yachiyobashi Bridge	Yachiyoshi City	2012/5/24	Cloudy	3.30	15	40	Silty	<30	1,300	1,900		
20		Temurigawa River	Mumeibashi Bridge	Sakurashi City	2012/5/25	Cloudy	0.70	1	87	Sandy	<30	1,200	1,800		
21		Monotogawa River	Monotobashi Bridge	Inzaishi City	2012/5/25	Cloudy	1.00	5	65	Silty condition	<30	530	810		
22		Kashimagawa River	Iwatombashi Bridge	Sakurashi City	2012/5/25	Cloudy	1.00	4	94	Sandy	<30	74	96		
23		Takasakigawa River	Ryutobashi Bridge	Sakurashi City	2012/5/25	Cloudy	0.70	5	86	Sandy	<30	130	210		
24		Kashimagawa River	Kashimabashi Bridge	Sakurashi City	2012/5/25	Cloudy	2.30	5	90	Sandy	<30	73	100		
25		Inbasuiro Channel	Tsurumakibashi Bridge	Inzaishi City	2012/6/5	Cloudy	2.80	5	82	Sludge	<30	170	240		
26		Edogawa River System	Toneunga Canal	Ungabashi Bridge	Nagareyamashi City	2012/6/5	Cloudy	0.30	5	76	Sludge	<30	910	1,300	
27			Edogawa River	Nagareyamabashi Bridge	Nagareyamashi City/Misatoshi City	2012/6/5	Cloudy	0.50	5	84	Sandy	<30	66	100	(Chiba Prefecture, Saitama Prefecture)
28	Sakagawa River		Bentenbashi Bridge	Matsudoshi City	2012/6/6	Cloudy	2.00	5	80	Sludge	<30	1,400	2,100		
29	Shinsakagawa River		Sakamabashi Bridge	Matsudoshi City	2012/6/6	Rain	0.60	3	87	Sludge	<30	1,300	2,000		
30	Shinkatashikabashi Bridge		Matsudoshi City/Katsushika City	2012/6/6	Rain	0.60	10	61	Sandy	<30	450	670	(Chiba Prefecture, Tokyo Prefecture)		
31	Ichikawabashi Bridge		Ichikawashi City/Edogawa City	2012/6/8	Cloudy	0.30	4	89	Sandy	<30	120	170	(Chiba Prefecture, Tokyo Prefecture)		
32	Edogawa River		Vicinity of Ketsu Road	Ichikawashi City/Edogawa City	2012/6/29	Cloudy	2.90	3	86	Sandy	<30	60	85	(Chiba Prefecture, Tokyo Prefecture)	
33	Gyotoku Movable Weir (upper reaches)		Ichikawashi City	2012/6/29	Cloudy	3.70	5	74	Sand/silt	<30	140	210			
34	Shingyotokubashi Bridge		Ichikawashi City	2012/6/8	Cludy, then sunny	3.20	5	71	Sludge	<30	39	65			
35	Edogawa Floodgate, down		Ichikawashi City/Edogawa City	2012/6/6	Cloudy	3.30	-	-	-	-	-	-	No sediment		
36	Edogawa River System	Kyuedogawa River	5 km Point to the estuary	Urayasushi City/Edogawa City	2012/6/29	Cloudy	5.60	3	91	Sandy	<30	38	43	(Chiba Prefecture, Tokyo Prefecture)	
37		Imabashi Bridge	Urayasushi City/Edogawa City	2012/6/29	Cloudy	4.60	3	88	Sand	<30	29	41	(Chiba Prefecture, Tokyo Prefecture)		
38		Urayasubashi Bridge	Urayasushi City/Edogawa City	2012/6/1	Cloudy	5.40	10	91	Sandy	<30	28	42	(Chiba Prefecture, Tokyo Prefecture)		
39		Mamagawa River	Nemoto Floodgate	Ichikawashi City	2012/6/7	Sunny	0.70	3	87	Sludge	<30	390	570		
40		Kokubugawa River	Suwadabashi Bridge	Ichikawashi City	2012/6/7	Sunny	0.30	3	88	Sludge	<30	480	720		
41		Harukigawa River	Before the confluence with Kokubugawa River	Ichikawashi City	2012/6/7	Sunny	0.20	5	82	Sludge	<30	480	730		
42		Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge	Kamagayashi City/Ichikawashi City	2012/6/7	Sunny	0.50	5	65	Sludge	<30	320	480		
43		Okashiwagawa River	Senegenbashi Bridge	Ichikawashi City	2012/6/7	Sunny	0.50	5	91	Sandy	<30	310	470		
44		Mamagawa River	Mitomabashi Bridge	Ichikawashi City	2012/6/8	Sunny	2.10	10	46	Sludge	<30	1,800	2,700		
45		Ihigawa River	Yachiyobashi Bridge	Funabashashi City	2012/6/1	Sunny	1.50	10	34	Sludge	<39	2,400	3,600		
46	Inba Discharge Channel (lower reaches)	Shinhanamigawabashi Bridge	Chibashi City	2012/6/1	Sunny	3.50	10	80	Sandy	<30	210	320			
47	Miyakogawa River	Miyakobashi Bridge	Chibashi City	2012/6/1	Rain	3.60	10	73	Sludge	<30	210	320			
48	Arakawa River System	Arakawa River Middle Reaches	Onaribashi Bridge	Konosushi City	2012/6/15	Sunny	2.90	5	87	Sand	<30	<10	19	(Saitama Prefecture)	
49		Arakawa River Lower Reaches	Sasamebashi Bridge	Todashi City/Wakoshi City/Itabashi City	2012/6/15	Sunny	0.20	15	68	Mud/sand	<30	96	170	(Saitama Prefecture, Tokyo Prefecture)	
50		Arakawa River Lower Reaches	Kasaibashi Bridge	Koto City/Edogawa City	2012/6/11	Cloudy	1.40	5	50	Sludge	<30	58	73	(Tokyo Prefecture)	
51	Sumidagawa River	Ryogokubashi Bridge	Chuo City/Sumida City	2012/6/11	Cloudy	2.40	5	65	Sludge	<30	100	160	(Tokyo Prefecture)		

* 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 μ Sv/h	Property	Concentration of radioactive material Bq/kg (dry)			Air dose μ Sv/h		
							Radioactive iodine I-131	Radioactive cesium Cs-134	Radioactive cesium Cs-137			Radioactive iodine I-131	Radioactive cesium Cs-134			Radioactive cesium Cs-137	
1	Tonegawa River System	Shogengawa River	Fukamohashi Bridge	Inzaishi City/Sakaemachi Town	2012/6/1	Cloudy	Loamy	<30	380	600	0.15	Loamy	<30	300	470	0.24	
2		Shinbeihashi Bridge	Inzaishi City/Sakaemachi Town	2012/6/1	Sunny	Loamy	<30	170	260	0.09	Loamy	<30	140	210	0.11		
3		Intake at Maeshinden Water Purification Plant	Inzaishi City/Sakaemachi Town	2012/6/1	Sunny	Loamy	<30	120	180	0.10	Loamy	<30	180	260	0.13		
4		Nagatogawa River	Nagatobashi Bridge	Inzaishi City/Sakaemachi Town	2012/5/31	Cloudy	Loamy	<30	160	260	0.11	Sandy	<30	15	21	0.06	
5		Fujimbashi Bridge	Sakaemachi Town	2012/5/31	Sunny	Loamy	<30	93	140	0.10	Loamy	<30	160	250	0.11		
6		Ryudogawa River	Ryujimasurohoshi Bridge	Narimasu City/Sakaemachi Town	2012/5/31	Cloudy	Loamy	<30	540	830	0.13	Loamy	<30	170	250	0.15	
7		Nekogawa River	Shinkawa Floodgate	Narimasu City	2012/5/31	Cloudy	Loamy	<30	140	230	0.09	Loamy	<30	160	230	0.09	
8	Feeder Rivers of Toganuma Lake	Ohorigawa River	Kitakashiwabashi Bridge	Kashiwashi City	2012/5/22	Rain	Loamy	<30	710	1,000	0.42	Loamy	<30	270	370	0.30	
9		Osugawa River	Samebashi Bridge, under	Kamagayashi City	2012/5/22	Rain	Clay	<30	660	970	0.18	Loamy	<30	400	570	0.16	
10	Someshinbashi Bridge	Kashiwashi City	2012/5/22	Rain	Loamy	<30	540	790	0.26	Loamy	<30	1,780	2,400	0.23			
11		Kashiwashi City	2012/5/22	Rain	Loamy	<30	290	410	0.14	Loamy (roots included)	<30	860	1,200	0.13			
12	Lake	Downstream of Karuzawasakabashi Bridge	Kamagayashi City/Usuisu City	2012/5/23	Sunny	-	-	-	-	-	Loamy	<30	1,500	2,100	0.15	Soil not exposed	
13		Nauchibashi Bridge	Usuisu City	2012/5/23	Sunny	Loamy	<30	230	330	0.17	Loamy	<30	390	570	0.18		
14		Kamenaribashi Bridge	Inzaishi City	2012/5/23	Cloudy	Loamy	<30	1,100	1,300	0.20	Loamy	<30	1,100	1,700	0.19		
15	Inbanuma Lake	Ijassuuro Channel	Downstream of Ijassuuro Channel	Kamagayashi City	2012/5/23	Sunny	Loamy	<30	480	650	0.17	Loamy	<30	310	440	0.14	
16		Futazogawa River	Tomogayabashi Bridge	Futabashibashi City/Usuisu City	2012/5/24	Sunny	Loamy (with gravel)	<30	510	740	0.17	Loamy	<30	340	480	0.19	
17		Kanzakigawa River	Kanzakibashi Bridge	Yachiyoshi City/Inzaishi City	2012/5/24	Cloudy	Loamy (with gravel)	<30	580	830	0.13	Loamy	<30	290	430	0.13	
18		Kamogawa River	Kamobashi Bridge	Yachiyoshi City	2012/5/24	Cloudy	Loamy	<30	380	550	0.12	Loamy	<30	330	480	0.14	
19		Inba Discharge Channel (upper reaches)	Yachiyoshi Bridge	Yachiyoshi City	2012/5/24	Cloudy	Loamy	<30	450	660	0.14	Loamy	<30	380	570	0.14	
20		Teigurigawa River	Morotobashi Bridge	Sakurashi City	2012/5/25	Cloudy	Loamy	<30	660	910	0.15	Loamy	<30	440	630	0.14	
21		Morotogawa River	Morotobashi Bridge	Inzaishi City	2012/5/25	Cloudy	Loamy	<30	130	210	0.12	Loamy	<30	230	330	0.11	
22		Kashimagawa River	Iwatomibashi Bridge	Sakurashi City	2012/5/25	Cloudy	Loamy	<30	81	71	0.08	Loamy	<30	93	150	0.07	
23		Takasakigawa River	Ryutobashi Bridge	Sakurashi City	2012/5/25	Cloudy	Leaf mold	<30	190	290	0.09	Leaf mold	<30	130	190	0.08	
24		Kashimagawa River	Kashimabashi Bridge	Sakurashi City	2012/5/25	Cloudy	Loamy (with gravel)	<30	140	210	0.09	Loamy	<30	610	910	0.12	
25		Inbasuuro Channel	Tsurumakibashi Bridge	Inzaishi City	2012/6/5	Cloudy	Loamy	<30	440	660	0.17	Sandy	<30	230	370	0.17	
26	Lineuma Canal	Unabashi Bridge	Nagayamashi City	2012/6/5	Cloudy	Loamy	<30	310	460	0.24	Loamy	<30	890	1,400	0.24		
27	Edogawa River	Nagayamabashi Bridge	Nagayamashi City/Misato City	2012/6/5	Cloudy	Loamy	<30	740	1,100	0.26	Loamy	<30	270	400	0.21	(Chiba Prefecture, Saitama Prefecture)	
28	Sakagawa River	Bentenbashi Bridge	Matsudoshi City	2012/6/6	Cloudy	-	-	-	0.22	-	-	-	-	-	0.21	Soil not exposed	
29	Shinsakagawa River	Sakanbashi Bridge	Matsudoshi City	2012/6/6	Rain	-	-	-	0.18	-	-	-	-	-	0.18	Soil not exposed	
30		Shinkasushikabashi Bridge	Matsudoshi City/Katsushika City	2012/6/6	Rain	Loamy	<30	270	380	0.19	Loamy	<30	460	720	0.20	(Chiba Prefecture, Tokyo Prefecture)	
31	Edogawa River	Ichikawabashi Bridge	Ichikawashi City/Edogawa City	2012/6/8	Cloudy	Loamy	<30	430	660	0.16	Loamy	<30	180	270	0.20	(Chiba Prefecture, Tokyo Prefecture)	
32		Vicinity of Keiyo Road	Ichikawashi City/Edogawa City	2012/6/29	Cloudy	Loamy	<30	320	480	0.17	Loamy	<30	450	660	0.15	(Chiba Prefecture, Tokyo Prefecture)	
33		Gyotoku Movable Weir (upper reaches)	Ichikawashi City	2012/6/29	Cloudy	Loamy	<30	370	560	0.14	Loamy	<30	430	640	0.18		
34		Shingyotokubashi Bridge	Ichikawashi City	2012/6/8	Cloudy, then sunny	Loamy	<30	100	140	0.10	Loamy	<30	82	120	0.10		
35		Edogawa Floodgate, down	Ichikawashi City/Edogawa City	2012/6/6	Cloudy	Loamy	<30	420	610	0.15	Loamy	<30	230	340	0.11	(Chiba Prefecture, Tokyo Prefecture)	
36		8 km Point to the estuary	Urayasushi City/Edogawa City	2012/6/29	Cloudy	Loamy	<30	420	620	0.16	Loamy	<30	640	960	0.15	(Chiba Prefecture, Tokyo Prefecture)	
37		Imabashi Bridge	Urayasushi City/Edogawa City	2012/6/29	Cloudy	-	-	-	-	-	Loamy	<30	260	390	0.15	Soil not exposed	
38		Urayasubashi Bridge	Urayasushi City/Edogawa City	2012/6/1	Cloudy	Loamy	<30	360	550	0.11	Loamy	<30	250	410	0.13	(Chiba Prefecture, Tokyo Prefecture)	
39		Mamagawa River	Nemoto Floodgate	Ichikawashi City	2012/6/7	Sunny	Loamy	<30	790	1,100	0.16	-	-	-	-	0.14	Soil not exposed
40		Kokubugawa River	Suwabashi Bridge	Ichikawashi City	2012/6/7	Sunny	-	-	-	0.14	-	-	-	-	-	0.13	Soil not exposed
41	Harukigawa River	Before the confluence with Kokubugawa River	Ichikawashi City	2012/6/7	Sunny	-	-	-	0.13	-	-	-	-	-	0.13	Soil not exposed	
42	Hasen-okashiwagawa River	Downstream of Nakazawashinbashi Bridge	Kamagayashi City/Ichikawashi City	2012/6/7	Sunny	Loamy	<30	990	1,500	0.18	Loamy	<30	950	1,500	0.17	Soil not exposed	
43	Okashiwagawa River	Sengenbashi Bridge	Ichikawashi City	2012/6/7	Sunny	-	-	-	0.06	-	-	-	-	-	0.08	Soil not exposed	
44	Mamagawa River	Mitomebashi Bridge	Ichikawashi City	2012/6/8	Sunny	Loamy	<30	280	390	0.11	Loamy	<30	230	340	0.10		
45	Utsugawa River	Yachiyobashi Bridge	Futabashibashi City	2012/6/1	Sunny	Loamy	<30	140	200	0.10	Loamy	<30	620	900	0.09		
46	Inba Discharge Channel (lower reaches)	Shinhanamigawabashi Bridge	Chihashi City	2012/6/1	Sunny	Loamy	<30	100	160	0.11	Loamy	<30	200	310	0.11		
47	Miyakogawa River	Miyakobashi Bridge	Chihashi City	2012/6/1	Rain	Loamy	<30	35	48	0.08	Loamy	<30	590	860	0.08		
48	Arakawa River System	Arakawa River Middle Reaches	Onaribashi Bridge	Konosushi City	2012/6/15	Sunny	Earth	<30	48	74	0.07	Earth	<30	96	140	0.07	(Saitama Prefecture)
49		Arakawa River Lower Reaches	Sasamebashi Bridge	Todashi City/Wakoshi City/Iiabashi City	2012/6/15	Sunny	Earth	<30	190	270	0.07	Earth	<30	110	160	0.08	(Saitama Prefecture, Tokyo Prefecture)
50		Arakawa River Lower Reaches	Kasaibashi Bridge	Koto City/Edogawa City	2012/6/11	Cloudy	Loamy	<30	470	740	0.12	Loamy	<30	170	270	0.10	(Tokyo Prefecture)
51	Sumidagawa River	Ryogokubashi Bridge	Chuo City/Sumida City	2012/6/11	Cloudy	-	-	-	-	0.06	-	-	-	-	0.06	Soil not exposed	

*Air dose was measured with a survey meter, TCS-171 or TCS-172 of Hitachi-Aloka Medical, Ltd.

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

OLake and Headwater: Water Quality Monitoring Results

Sampling point			Sampling date	Weather	Full depth m	General items				Concentration of radioactive material Bq/L			Remarks				
No.	Point					Sampling depth m	Transparency cm	Electrical conductivity mS/m	SS mg/L	Turbidity	Radioactive iodine I-131	Radioactive cesium Cs-134 Cs-137					
1	Teganuma Lake	Fusashita	Surface layer	2012/6/13	Sunny	2.40	0.5	0.5	32	15	10	<1	<1	<1			
			Lower layer				1.4		29	15	9	<1	<1	<1			
		Shimogeganuma Chuo	Surface layer				0.5		31	26	12	<1	<1	<1			
			Lower layer				0.7		30	24	11	<1	<1	<1			
3	Teganuma Chuo	Surface layer	2012/6/13	Cloudy	1.70	0.5	0.3	32	34	13	<1	<1	<1				
			Lower layer			0.7		29	23	11	<1	<1	<1				
		Nedoshita	Surface layer			2012/6/13		Cloudy	2.50	0.5	0.6	28	11	5	<1	<1	<1
			Lower layer							1.5		26	16	8	<1	<1	<1
Kita Inbanuma Chuo	Surface layer	2012/6/14	Cloudy	1.70	0.5		0.4			40		36	17	<1	<1	<1	
	Lower layer				0.7					28		37	17	<1	<1	<1	
Ipponmatsushita	Surface layer				2012/6/14	Sunny		1.70	0.5	0.5	28	17	8	<1	<1	<1	
	Lower layer								0.7		28	19	10	<1	<1	<1	
Lower area of Josuido water intake	Surface layer	2012/6/14	Sunny	1.70			0.5		0.4		27	51	25	<1	<1	<1	
	Lower layer						0.7				27	46	24	<1	<1	<1	
Asobashi Bridge	Surface layer				2012/6/14	Cloudy	1.90	0.5		0.6	27	25	12	<1	<1	<1	
	Lower layer							0.9			26	20	9	<1	<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 mud)			Property	Soil			
			Mud sampling depth cm	Mud content %	Property	Radioactive iodine I-131	Radioactive cesium Cs-134 Cs-137		Property	Concentration of radioactive material Bq/kg (dry)			Air dose μSv/h			
										Radioactive iodine I-131	Radioactive cesium Cs-134 Cs-137					
1	Teganuma Lake	Fusashita	2012/6/13	Sunny	2.40	5	74	Sandy condition	<30	400	580	-	-	-	-	
2		Shimogeganuma Chuo	2012/6/13	Cloudy	1.70	20	51	Muddy condition	<30	260	390	-	370	-	0.17	
3		Teganuma Chuo	2012/6/13	Cloudy	1.70	20	34	Muddy condition	<30	610	-	-	-	550	-	
4		Nedoshita	2012/6/13	Cloudy	2.50	20	41	Muddy condition	<30	2,300	3,100	Loamy	-	100	150	0.23
5	Inbanuma Lake	Kita Inbanuma Chuo	2012/6/14	Cloudy	1.70	15	36	Muddy condition	<30	340	570	Loamy	<30	470	740	0.20
6		Ipponmatsushita	2012/6/14	Sunny	1.70	20	33	Muddy condition	<30	220	380	-	-	-	-	-
7		Lower area of Josuido water intake	2012/6/14	Sunny	1.70	20	38	Muddy condition	<30	340	600	-	-	-	-	-
8		Asobashi Bridge	2012/6/14	Cloudy	1.90	3	80	Sandy	<30	390	590	Loamy	<30	470	660	0.11

* Air dose was measured with a survey meter, TCS-171 or TCS-172 of Hitachi-Aloka Medical, Ltd.

* Sampling points are listed from north to south.

○Coast: Water Quality Monitoring Results

Sampling point		Sampling date	Weather	Full depth	General items					Concentration of radioactive material Bq/L			Remarks	
No.	Water body				Sampling depth m	Secchi disk depth m	Salinity ‰	SS mg/L	Turbidity	Radioactive iodine I-131	Radioactive cesium Cs-134	Cs-137		
1	Offshore of Yorogawa River Estuary	Surface layer	2012/6/25	Cloudy	9.30	0.5	3.2	28	<1	1	<1	<1	<1	(Chiba Prefecture)
		Lower layer				8.3		29						
2	Offshore of Miyakogawa River Estuary	Surface layer	2012/6/25	Cloudy	8.90	0.5	3.3	28	<1	2	<1	<1	<1	(Chiba Prefecture)
		Lower layer				7.9		29						
3	Offshore of Inbanuma Discharge Channel	Surface layer	2012/6/25	Cloudy	5.30	0.5	4.5	26	1	2	<1	<1	<1	(Chiba Prefecture)
		Lower layer				4.3		27						
4	Coastal area of Keiyo Port (Ebigawa River Estuary)	Surface layer	2012/6/25	Cloudy	6.70	0.5	1.5	25	3	2	<1	<1	<1	(Chiba Prefecture)
		Lower layer				5.7		27						
5	Coastal area of Keiyo Port (Edogawa River Estuary)	Surface layer	2012/6/28	Cloudy	4.50	0.5	1.2	26	2	2	<1	<1	<1	(Chiba Prefecture)
		Lower layer				3.5		29						
6	Offshore of Sumidagawa River Estuary	Surface layer	2012/5/31	Sunny	11.10	0.5	1.3	19	2	1	<1	<1	<1	(Tokyo Prefecture)
		Lower layer				10.1		28						
		Surface layer	2012/6/27	Sunny	11.30	1.0	1.4	16	4	3	<1	<1	<1	(Tokyo Prefecture)
		Lower layer				10.3		30						
7	Offshore of Arakawa River/Kyuedogawa River Estuaries	Surface layer	2012/5/31	Cloudy	5.60	0.5	0.8	16	3	2	<1	<1	<1	(Tokyo Prefecture)
		Lower layer				4.6		28						
		Surface layer	2012/6/27	Sunny	5.80	1.0	0.2	9	5	5	<1	<1	<1	(Tokyo Prefecture)
		Lower layer				4.8		28						

○Coast: Sediment Monitoring Results

Sampling point		Sampling date	Weather	Full depth	General items			Concentration of radioactive material Bq/kg (dried mud)			Remarks
No.	Water body				Mud sampling depth cm	Mud content %	Property	Radioactive iodine I-131	Radioactive cesium Cs-134	Cs-137	
1	Offshore of Yorogawa River Estuary	2012/6/25	Cloudy	9.30	5	48	Muddy	<30	<10	<10	(Chiba Prefecture)
2	Offshore of Miyakogawa River Estuary	2012/6/25	Cloudy	8.90	3	53	Muddy	<30	<10	17	(Chiba Prefecture)
3	Offshore of Inbanuma Discharge Channel	2012/6/25	Cloudy	5.30	2	71	MudSandy	<30	<10	<10	(Chiba Prefecture)
4	Coastal area of Keiyo Port (Ebigawa River Estuary)	2012/6/25	Cloudy	6.70	3	55	Muddy	<30	53	81	(Chiba Prefecture)
5	Coastal area of Keiyo Port (Edogawa River Estuary)	2012/6/28	Cloudy	4.50	5	69	Muddy	<30	13	24	(Chiba Prefecture)
6	Offshore of Sumidagawa River Estuary	2012/5/31	Sunny	11.10	10	42	Sludge	<30	<10	16	(Tokyo Prefecture)
		2012/6/27	Sunny	11.30	20	42	Sludge	<30	<10	11	
7	Offshore of Arakawa River/Kyuedogawa River Estuaries	2012/5/31	Cloudy	5.60	10	54	Sludge	<30	190	300	(Tokyo Prefecture)
		2012/6/27	Sunny	5.80	20	58	Sludge	<30	160	280	

