

(News Release)  
The Results of Radioactive Material Monitoring of the Surface Water Bodies  
within Gunma Prefecture  
(May-July 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 Gunma Prefecture during the period of May 28-July 11, 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

56 environmental reference points, etc. in the surface water bodies within Gunma Prefecture  
(Rivers: 48 locations, Lakes and headwaters: 8 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 (February-March))

(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))

(Rivers)

Cs-134: ND-440Bq/kg (dried mud)

Cs-137: ND-640Bq/kg (dried mud)  
(\*Cs-134: ND-160Bq/kg (dried mud))  
(\*Cs-137: ND-250Bq/kg (dried mud))

(Lakes and headwaters)

Cs-134: 46-750Bq/kg (dried mud)  
Cs-137: 68-1,200Bq/kg (dried mud)  
(\*Cs-134: ND-870Bq/kg (dried mud))  
(\*Cs-137: ND-1,100Bq/kg (dried mud))

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

(Rivers)

Cs-134: ND-1,700Bq/kg (dry)  
Cs-137: 17-2,600Bq/kg (dry)  
(\*Cs-134: 16-2,300Bq/kg (dry))  
(\*Cs-137: 22-3,300Bq/kg (dry))  
Spatial dose: 0.04-0.38 $\mu$ Sv/h

(Lakes and headwaters)

Cs-134: 84-780Bq/kg (dry)  
Cs-137: 120-1,200Bq/kg (dry)  
(\*Cs-134: 40-430Bq/kg (dry))  
(\*Cs-137: 73-610Bq/kg (dry))  
Spatial dose: 0.04-0.34 $\mu$ 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

(Annex)

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	Cs-134	Cs-137			
1	Tonegawa River	Hirosehashi Bridge	Minakamimachi Town	2012/5/30	Sunny	1.40	0.0	29	3	<1	1	<1	<1	<1			
2		Tonkiryonobashi Bridge		2012/5/30	Sunny	0.60	0.0	45	4	<1	1	<1	<1	<1			
3		2012/7/10		Sunny	0.70	0.0	58	4	<1	<1	<1	<1	<1				
4		Akagawaga River	Kosodebashi Bridge	Kawabamura Village	2012/5/30	Sunny	0.50	0.0	>100	6	<1	<1	<1	<1			
5		Sakuragawa River	In Oozawa Yachi		2012/5/30	Sunny	0.40	0.0	>100	5	1	<1	<1	<1			
6		2012/7/9	Sunny		0.60	0.0	100	5	2	<1	<1	<1	<1				
7		Kirinokubashi Bridge	Katashinamura Village	2012/5/30	Sunny	0.10	0.0	>100	4	3	1	<1	<1	<1			
8		Tonegawa River	Tonegachikatayota	Numata City	2012/5/31	Sunny	0.60	0.0	>100	6	<1	1	<1	<1	<1		
9		2012/7/10	Sunny		0.40	0.0	87	6	2	<1	<1	<1	<1	<1			
10		2012/5/29	Sunny		2.10	0.0	>100	8	1	<1	<1	<1	<1	<1			
11		Futaebashi Bridge	Numata City/Shiomamura Village	2012/7/10	Sunny	1.20	0.0	27	7	2	<1	<1	<1	<1			
12		Agatsumagawa River	Shintobashi Bridge	Naganoharamachi Town	2012/5/29	Cloudy	0.50	0.0	28	23	14	7	<1	<1	<1		
13		Shirasuagawa River	Shuatsubashi Bridge		Nakanomachi Town	2012/6/11	Cloudy	1.50	0.0	>100	14	1	1	<1	<1	<1	
14		Agatsumagawa River	Downstream of Azumabashi Bridge		Higashiagatsumamachi Town	2012/5/30	Sunny	0.50	0.0	24	28	15	7	<1	<1	<1	
15		Nakutagawa River	Tonodabashi Bridge	Yakayamamura Village	2012/7/10	Sunny	0.20	0.0	40	16	10	3	<1	<1	<1		
16		2012/6/15	Sunny		0.20	0.0	>100	10	2	1	<1	<1	<1	<1			
17		Agatsumagawa River	Agatsumabashi Bridge		2012/5/29	Cloudy	0.50	0.0	52	19	3	2	<1	<1	<1		
18	Tonegawa River	Taishobashi Bridge	Shibukawashi City	2012/6/27	Sunny	0.40	0.0	80	19	4	2	<1	<1	<1			
19	2012/5/29	Cloudy		1.40	0.0	>100	5	<1	1	<1	<1	<1	<1				
20	2012/6/26	Sunny		0.20	0.0	65	2	1	<1	<1	<1	<1	<1				
21	Takizawagawa River	Shintakizawabashi Bridge	Yoshiokamachi Town	2012/6/7	Sunny	0.20	0.0	93	22	4	2	<1	<1	<1			
22	Tonegawa River	Gunmaebashi Bridge		2012/6/7	Sunny	0.10	0.0	91	3	1	1	<1	<1	<1			
23	Fukushimabashi Bridge	Tamamura City		2012/6/7	Cloudy	0.30	0.0	90	12	3	2	<1	<1	<1			
24	Nagaigawa River	Kamigondabashi Bridge	Takasaki City	2012/6/6	Cloudy	0.40	0.0	>100	11	3	1	<1	<1	<1			
25	Karasugawa River	Karasugawabashi Bridge		2012/6/6	Cloudy	0.20	0.0	>100	11	2	1	<1	<1	<1			
26	Usugawa River	Nakasebashi Bridge		Amakashi City	2012/6/6	Rain	0.20	0.0	62	13	3	1	<1	<1	<1		
27	Hanokubashi Bridge	Takasaki City	2012/6/6	Cloudy	0.20	0.0	66	27	6	2	<1	<1	<1				
28	Kaburagawa River	Tadokawabashi Bridge	Tomokashi City/Shimonamachi Town	2012/6/4	Sunny	0.25	0.0	>100	22	2	1	<1	<1	<1			
29	Kaburagawabashi Bridge	Takasaki City/Fujiohoshi City		2012/6/5	Cloudy	0.25	0.0	83	28	3	3	<1	<1	<1			
30	Ogawa River	Kanzanbashi Bridge		Kanamachi Town	2012/6/13	Cloudy	0.25	0.0	>100	16	<1	1	<1	<1	<1		
31	Nimokogawa River	Ozawabashi Bridge	Nimokomura Village	2012/6/13	Cloudy	0.25	0.0	>100	13	<1	1	<1	<1	<1			
32	Someyagawa River	Yakushibashi Bridge		Shintomura Village	2012/6/8	Sunny	0.20	0.0	78	22	4	2	<1	<1	<1		
33	Inogawa River	Kamakurabashi Bridge		Takasaki City	2012/6/6	Cloudy	0.20	0.0	31	25	12	3	<1	<1	<1		
34	Karasugawa River	Dwakurabashi Bridge	2012/6/7	Sunny	0.30	0.0	>100	36	3	1	<1	<1	<1	<1			
35	Shinkamabashi Bridge	Uenomura Village	2012/6/13	Cloudy	0.25	0.0	>100	13	<1	1	<1	<1	<1	<1			
36	Moritobashi Bridge	Kanamachi Town	2012/6/4	Sunny	0.50	0.0	>100	15	<1	<1	<1	<1	<1	<1			
37	Tobukyo Bridge	Fujiohoshi City/Kamikawamachi Town	2012/6/5	Cloudy	0.10	0.0	>100	23	2	1	<1	<1	<1	<1			
38	Kanagawabashi Bridge	Kanagatomachi Town	2012/6/13	Cloudy	0.40	0.0	>100	18	<1	1	<1	<1	<1	<1			
39	Tonegawa River	Bandoobashi Bridge	Hojoshi City	2012/6/5	Cloudy	0.10	0.0	65	20	3	1	<1	<1	<1			
40	Akagishirakawa River	In Shimohosonouchi Town		2012/6/8	Sunny	0.40	0.0	48	21	8	3	<1	<1	<1	<1		
41	Momonokigawa River	Utsunobashi Bridge		Maebashishi City	2012/6/7	Sunny	0.30	0.0	52	2	4	2	<1	<1	<1		
42	Atagawa River	Okubabashi Bridge	2012/6/7	Sunny	0.20	0.0	21	4	1	1	<1	<1	<1	<1			
43	Kasukawa River	Hozanbashi Bridge	2012/6/5	Cloudy	0.20	0.0	54	25	6	2	<1	<1	<1	<1			
44	Hirosegawa River	Nakamabashi Bridge	Isezakishi City	2012/6/5	Cloudy	0.20	0.0	55	23	9	4	<1	<1	<1			
45	Hayakawa River	Hayakawabashi Bridge		2012/6/12	Cloudy	0.20	0.0	39	15	3	2	<1	<1	<1	<1		
46	Maeyamabashi Bridge	Ofashi City		2012/6/12	Light rain	0.20	0.0	53	25	6	3	<1	<1	<1	<1		
47	Tonegawa River	Toneozeki Weir	Chiyodamachi Town/Gyodashi City	2012/5/28	Sunny	0.45	0.0	32	19	5	1	<1	<1	<1			
48	Kogurogawa River	Kayanobashi Bridge		Kiryushi City	2012/7/11	Sunny	0.60	0.0	34	19	12	3	<1	<1	<1		
49	2012/5/29	Sunny		0.90	0.0	>100	7	1	<1	<1	<1	<1	<1	<1			
50	2012/7/11	Sunny	0.60	0.0	>100	6	1	<1	<1	<1	<1	<1	<1				
51	Takatsudo	Midorishi City	2012/6/12	Cloudy	0.60	0.0	>100	3	1	1	<1	<1	<1	<1			
52	Watarasegawa River	Intake for Akaiwayosui water channel	Kiryushi City	2012/5/28	Cloudy	0.80	0.0	>100	10	1	1	<1	<1	<1			
53	2012/7/11	Sunny		0.50	0.0	97	8	1	<1	<1	<1	<1	<1	<1			
54	Tataragawa River	Ejirbashi Bridge		Duramachi Town	2012/6/14	Cloudy	0.15	0.0	55	19	3	1	<1	<1	<1		
55	Kiryugawa River	Kannobashi Bridge	Kiryushi City	2012/6/12	Cloudy	0.25	0.0	>100	6	<1	1	<1	<1	<1			
56	Sakaibashi Bridge	2012/5/28		Rain	0.55	0.0	39	8	2	<1	<1	<1	<1	<1			
57	2012/7/11	Sunny		0.40	0.0	>100	8	3	2	<1	<1	<1	<1	<1			
58	Tsurudagawa River	Jonumu Lake	Tatebayashishi City	2012/6/14	Cloudy	2.00	0.0	35	34	7	3	<1	<1	<1			
59	Yatagawa River	Togodabashi Bridge		Meramachi Town	2012/6/14	Cloudy	0.20	0.0	51	33	3	3	<1	<1	<1		

\*Collection points for rivers are listed from North to South, and for different points along the river, from upstream to downstream.

Unable to collect samples due to river construction

○River: 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	Radioactive cesium Cs-137			
T o n e g a w a	Tonegawa River	Hiroeshashi Bridge	Minakamimachi Town	2012/5/30	Sunny	1.40	5	70	Sand	<30	130	220			
		Tsukiyonobashi Bridge		2012/5/30	Sunny	0.60	5	87	Sand	<30	89	63			
				2012/7/10	Sunny	0.70	3	95	Sand	<30	13	24			
			Akayagawa River	Koodebashi Bridge		2012/5/30	Sunny	0.50	5	81	Sand	<30	28	40	
			Sakuragawa River	In Oozu Yachi	Kawabamura Village	2012/5/30	Sunny	0.40	5	79	Sand	<30	160	250	
						2012/7/9	Sunny	0.60	3	87	Sand	<30	94	150	
				Kiritsukibashi Bridge	Katahimmura Village	2012/5/30	Sunny	0.10	5	91	Sand	<30	14	24	
				Tonemachitakatoya	Numatsi City	2012/5/31	Sunny	0.60	5	94	Sand	<30	<10	<10	
						2012/7/10	Sunny	0.40	3	89	Sand	<30	<10	10	
				Futaebashi Bridge	Numatsi City>Showamura Village	2012/5/29	Sunny	2.10	5	92	Sand	<30	17	22	
				2012/7/10	Sunny	1.20	2	83	Sand	<30	32	54			
		Shintobashi Bridge	Naganoharamachi Town	2012/5/29	Cloudy	0.50	5	92	Sand	<30	<10	11			
		Shirasagawa River	Nakanojomachi Town	2012/6/11	Cloudy	1.50	-	-	-	-	-	-	Unable to collect sediment as steep cliffs at both sides of the river prevented us to get down to the river.		
				2012/5/30	Sunny	0.50	5	92	Sand	<30	<10	11			
				2012/7/10	Sunny	0.20	2	92	Sand	<30	10	12			
		Nakutagawa River	Tonodabashi Bridge	Takayamamura Village	2012/6/15	Sunny	0.20	3	85	Sand	<30	47	86		
				2012/5/29	Cloudy	0.50	5	88	Sand	<30	17	36			
				2012/6/27	Sunny	0.40	5	92	Sand	<30	<10	19			
				2012/5/29	Cloudy	1.40	5	92	Sand	<30	13	18			
				2012/6/26	Sunny	0.20	3	92	Sand	<30	17	32			
				2012/6/27	Sunny	0.20	3	92	Sand	<30	30	50			
				2012/6/7	Sunny	0.10	2	86	Sand	<30	26	38			
				2012/6/7	Cloudy	0.30	5	89	Sand	<30	16	28			
				2012/6/6	Cloudy	0.40	4	88	Sand	<30	120	190			
				2012/6/6	Cloudy	0.20	5	86	Sand	<30	20	32			
				2012/6/6	Rain	0.20	5	85	Sand	<30	140	230			
				2012/6/6	Cloudy	0.20	2	84	Sand	<30	29	45			
				2012/6/4	Sunny	0.25	5	91	Sand	<30	23	33			
				2012/6/5	Cloudy	0.25	5	91	Sand	<30	19	23			
				2012/6/13	Cloudy	0.25	2	91	Sand	<30	34	53			
				2012/6/13	Cloudy	0.25	5	89	Sand	<30	29	39			
				2012/6/8	Sunny	0.20	3	88	Sand/mud	<30	45	68			
				2012/6/6	Cloudy	0.20	5	77	Mud	<30	56	69			
				2012/6/7	Sunny	0.30	2	62	Mud/sand	<30	40	61			
				2012/6/13	Cloudy	0.25	5	89	Sand	<30	14	23			
				2012/6/4	Sunny	0.50	5	92	Sand	<30	<10	<10			
				2012/6/5	Cloudy	0.10	5	93	Sand	<30	<10	<10			
				2012/6/13	Cloudy	0.40	5	90	Sand	<30	<10	14			
				2012/6/5	Cloudy	0.10	10	78	Mud	<30	35	58			
				2012/6/8	Sunny	0.40	4	86	Sand	<30	15	25			
				2012/6/7	Sunny	0.30	4	83	Sand	<30	31	44			
				2012/6/7									Unable to collect samples due to river construction		
				2012/6/5	Cloudy	0.20	4	91	Sand	<30	14	25			
				2012/6/5	Cloudy	0.20	4	85	Sand	<30	26	42			
				2012/6/12	Cloudy	0.20	3	90	Sand	<30	61	86			
				2012/6/12	Light rain	0.20	5	78	Sand	<30	63	120			
				2012/5/28	Sunny	0.45	5	67	Mud	<30	160	250			
				2012/7/11	Sunny	0.60	5	63	Silt	<30	130	210			
				2012/5/29	Sunny	0.90	5	86	Sand	<30	40	63			
				2012/7/11	Sunny	0.60	3	87	Sand	<30	54	82			
				2012/6/12	Cloudy	0.60	10	91	Sand	<30	26	34			
				2012/5/28	Cloudy	0.80	5	92	Sand	<30	32	50			
				2012/7/11	Sunny	0.50	3	89	Sand	<30	23	46			
				2012/6/14	Cloudy	0.15	5	86	Mud	<30	240	390			
				2012/6/12	Cloudy	0.25	4	84	Sand	<30	90	150			
				2012/5/28	Rain	0.55	5	91	Sand	<30	49	73			
				2012/7/11	Sunny	0.40	2	81	Sand	<30	93	150			
				2012/6/14	Cloudy	2.00	20	39	Mud	<30	440	640			
				2012/6/14	Cloudy	0.20	5	58	Mud	<30	250	390			

\*Collection points for rivers are listed from North to South, and for different points along the river, from upstream to downstream.

○River: 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 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	Tonegawa River	Hirosebashu Bridge	2012/5/30	Sunny	Loamy	<30	870	1,300	0.30	Loamy	<30	460	720	0.27		
2		Tonegawa River	Fukuyonobashi Bridge	Minakaminachi Town	2012/5/30	Sunny	Loamy	<30	140	210	0.14	Loamy	<30	410	620	0.12	
3		Akayagawa River	Kosodebashi Bridge		2012/7/10	Sunny	Loamy	<30	150	230	0.13	Loamy	<30	140	230	0.13	
4		Sakuragawa River	In Oozu Yaichi	Kawabamura Village	2012/5/30	Sunny	Loamy	<30	390	620	0.08	Loamy	<30	140	230	0.10	
5					2012/5/30	Sunny	Loamy	<30	1,100	1,600	0.38	Loamy	<30	1,100	1,700	0.32	
6					2012/7/9	Sunny	Loamy	<30	840	1,400	0.35	Loamy	<30	640	1,000	0.28	
7					2012/5/30	Sunny	Loamy	<30	210	320	0.14	Loamy	<30	340	530	0.16	
8					2012/5/31	Sunny	Sandy	<30	22	36	0.12	Sandy	<30	48	83	0.12	
9					2012/7/10	Sunny	Sandy	<30	30	43	0.10	Loamy	<30	340	550	0.11	
10					2012/5/29	Sunny	Loamy	<30	650	940	0.11	Loamy	<30	140	210	0.10	
11					2012/7/10	Sunny	Loamy	<30	350	580	0.11	Loamy	<30	310	460	0.12	
12					2012/5/29	Cloudy	Loamy	<30	38	53	0.09	Loamy	<30	140	210	0.13	
13					2012/6/11	Cloudy	Loamy	<30	110	180	0.06	Loamy	<30	400	650	0.10	
14					2012/5/30	Sunny	Loamy	<30	890	1,400	0.29	Loamy	<30	100	150	0.09	
15					2012/7/10	Sunny	Sandy	<30	340	390	0.06	Loamy	<30	33	62	0.09	
16					2012/6/15	Sunny	Loamy	<30	130	180	0.08	Loamy	<30	230	350	0.07	
17				2012/5/29	Cloudy	Loamy	<30	360	560	0.11	Loamy	<30	550	850	0.11		
18				2012/6/27	Sunny	Loamy	<30	440	630	0.12	Loamy	<30	480	760	0.11		
19				2012/5/29	Cloudy	Loamy	<30	510	830	0.10	Loamy	<30	480	730	0.10		
20				2012/6/26	Sunny	Loamy	<30	390	620	0.10	Loamy	<30	820	1,300	0.10		
21				2012/6/7	Sunny	Loamy	<30	170	260	0.07	Loamy	<30	160	250	0.07		
22				2012/6/7	Sunny	Loamy	<30	11	24	0.04	Loamy	<30	150	240	0.08		
23				2012/6/7	Cloudy	Loamy	<30	22	37	0.06	Loamy	<30	44	79	0.06		
24				2012/6/6	Cloudy	Loamy	<30	240	390	0.14	Loamy	<30	970	1,500	0.16		
25				2012/6/6	Cloudy	Loamy	<30	280	450	0.12	Loamy	<30	580	930	0.17		
26				2012/6/6	Rain	Loamy	<30	200	310	0.15	Loamy	<30	350	510	0.18		
27				2012/6/6	Cloudy	Loamy	<30	210	320	0.08	Loamy	<30	200	300	0.09		
28				2012/6/4	Sunny	Sandy/loamy	<30	140	220	0.11	Cloudy/sandy	<30	180	270	0.11		
29				2012/6/5	Loamy	Loamy	<30	43	83	0.06	Loamy	<30	28	48	0.05		
30				2012/6/13	Cloudy	Loamy	<30	71	110	0.07	Loamy	<30	110	150	0.09		
31				2012/6/13	Cloudy	Loamy	<30	340	370	0.09	Loamy	<30	250	330	0.13		
32				2012/6/8	Sunny	Loamy	<30	260	370	0.07	Loamy	<30	310	470	0.06		
33				2012/6/6	Cloudy	Loamy	<30	50	76	0.05	Loamy	<30	120	180	0.06		
34				2012/6/7	Sunny	Loamy	<30	76	110	0.06	Loamy	<30	100	160	0.06		
35				2012/6/13	Cloudy	Loamy	<30	180	270	0.09	Loamy	<30	120	160	0.10		
36				2012/6/4	Sunny	Loamy	<30	94	130	0.07	Sandy/loamy	<30	<10	17	0.06		
37				2012/6/5	Cloudy	Loamy	<30	53	95	0.08	Loamy	<30	45	71	0.09		
38				2012/6/15	Cloudy	Loamy	<30	26	45	0.06	Loamy	<30	31	53	0.07		
39				2012/6/5	Cloudy	Loamy	<30	120	200	0.09	Loamy	<30	47	73	0.07		
40				2012/6/8	Sunny	Loamy	<30	76	120	0.07	Loamy	<30	88	130	0.06		
41				2012/6/7	Sunny	Loamy	<30	100	150	0.07	Loamy	<30	170	270	0.07		
42				2012/6/7	Sunny	Loamy	<30	100	150	0.07	Loamy	<30	170	270	0.07	Unable to collect samples due to river construction	
43				2012/6/5	Cloudy	Loamy	<30	35	51	0.06	Loamy	<30	71	100	0.06		
44				2012/6/5	Cloudy	Loamy	<30	62	98	0.06	Loamy	<30	36	55	0.06		
45				2012/6/12	Cloudy	Loamy	<30	120	180	0.08	Loamy	<30	85	150	0.07		
46				2012/6/12	Light rain	Loamy	<30	62	83	0.07	Loamy	<30	55	78	0.09		
47				2012/5/28	Sunny	Loamy	<30	57	80	0.08	Loamy	<30	260	370	0.12		
48				2012/7/11	Sunny	Loamy	<30	180	280	0.08	Loamy	<30	130	210	0.11		
49				2012/5/29	Sunny	Loamy	<30	130	190	0.26	Loamy	<30	1,300	2,000	0.26		
50				2012/7/11	Sunny	Leaf mold	<30	560	930	0.25	Leaf mold	<30	1,700	2,600	0.23		
51				2012/6/12	Cloudy	Loamy	<30	41	68	0.09	Loamy	<30	110	180	0.10		
52				2012/5/28	Cloudy	Loamy	<30	320	460	0.11	Sandy	<30	57	81	0.10		
53				2012/7/11	Sunny	Loamy	<30	98	140	0.09	Loamy	<30	70	120	0.08		
54				2012/6/14	Cloudy	Loamy	<30	240	350	0.07	Loamy	<30	70	110	0.06		
55				2012/6/12	Cloudy	Loamy	<30	120	200	0.09	Loamy	<30	140	210	0.08		
56				2012/5/28	Rain	Loamy	<30	59	99	0.08	Loamy	<30	85	110	0.08		
57				2012/7/11	Sunny	Loamy	<30	100	140	0.07	Loamy	<30	190	300	0.08		
58				2012/6/14	Cloudy	Loamy	<30	82	120	0.07	Loamy	<30	100	160	0.07		
59				2012/6/14	Cloudy	Loamy	<30	82	120	0.08	Loamy	<30	130	210	0.08		

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

\*Collection points for rivers are listed from North to South, and for different points along the river, from upstream to downstream.

○Lake 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	Secchi disk depth m	Electrical conductivity mS/m	SS mg/L	Turbidity	Radioactive iodine I-131	Radioactive cesium Cs-134 Cs-137	
1	Agatsunagawa River Water Body	Tashiroko Lake (Kazawa Dam)	Center	2012/6/29	Sunny	6.30	0.5	1.7	8	<1	1	<1	<1	<1
			Surface layer				5.3							
2	W K a a t R e i r s u	Harunako Lake	Center	2012/6/28	Sunny	14.50	0.5	5.8	8	<1	0	<1	<1	<1
			Surface layer				13.5							
3	t R e i r s u	Kirizumiko Lake (Kirizumi Dam)	Center	2012/6/28	Cloudy	10.50	0.5	2.4	8	<1	1	<1	<1	<1
			Surface layer				9.5							
4	e i r s u	Usaiko Lake (Sakamoto Dam)	Center	2012/6/27	Sunny	13.00	0.5	3.3	8	<1	0	<1	<1	<1
			Surface layer				12.0							
5	B e g a d w y a	Arafuneko Lake (Dodairagawa Dam)	Center	2012/6/27	Sunny	26.50	0.5	2.5	44	<1	1	<1	<1	<1
			Surface layer				25.5							
6	o r a	Kannako Lake (Shimokubo Dam)	Center	2012/6/26	Sunny	78.00	0.5	2.6	14	<1	1	<1	<1	<1
			Surface layer				77.0							
7	y a	Hebikamiko Lake (Shiozawa Dam)	Center	2012/6/26	Sunny	6.70	0.5	1.4	11	6	3	<1	<1	<1
			Surface layer				5.7							
8	Watarasagawa River Water Body	Umedako Lake (Kiriyugawa Dam)	Center	2012/6/25	Rain	27.00	0.5	1.3	8	<1	1	<1	<1	<1
			Surface layer				26.0							

○Lake 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	Cs-134	Cs-137								
1	Agatsunagawa River Water Body	Tashiroko Lake (Kazawa Dam)	Center	2012/6/29	Sunny	6.30	15	37	Mud	<30	230	310	Loamy	<30	370	590	0.12
2	W K a a t R e i r s u	Harunako Lake	Center	2012/6/28	Sunny	14.50	15	17	Mud	<30	46	68	Loamy	<30	780	1,200	0.34
3		Kirizumiko Lake (Kirizumi Dam)	Center	2012/6/28	Cloudy	10.50	10	46	Mud	<30	310	480	Loamy	<30	380	580	0.13
4	B e g a d w y a	Usaiko Lake (Sakamoto Dam)	Center	2012/6/27	Sunny	13.00	10	40	Mud	<30	750	1,200	Loamy	<30	360	550	0.14
5		Arafuneko Lake (Dodairagawa Dam)	Center	2012/6/27	Sunny	26.50	20	52	Mud	<30	130	180	Loamy	<30	280	410	0.12
6	o r a	Kannako Lake (Shimokubo Dam)	Center	2012/6/26	Sunny	78.00	15	56	Mud	<30	48	80	Loamy	<30	84	120	0.04
7		Hebikamiko Lake (Shiozawa Dam)	Center	2012/6/26	Sunny	6.70	4	62	Mud	<30	260	430	Loamy	<30	100	160	0.09
8	Watarasagawa River Water Body	Umedako Lake (Kiriyugawa Dam)	Center	2012/6/25	Rain	27.00	10	41	Mud	<30	52	71	Loamy	<30	190	300	0.09

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\*Collection points are listed from North to South.

