

## FY2012 Saitama Prefecture Survey Results

### [Survey Results]

Radioactive iodine was not detectable at any of the locations tested.

#### Water Quality

##### Rivers

Radioactive cesium (Cs-134、Cs-137): Not detectable at any location

#### Sediment

##### Rivers

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

Cs-137: 12-340Bq/kg (dried mud)

#### Surrounding Environment

##### (1) Rivers

Cs-134: 8.5-210Bq/kg (dry)

Cs-137: 19-360Bq/kg (dry)

##### (2) Spatial dose

Rivers 0.06-0.08 $\mu$ Sv/h

Table 4.8.1.1 Saitama Pref. River (Water Quality)

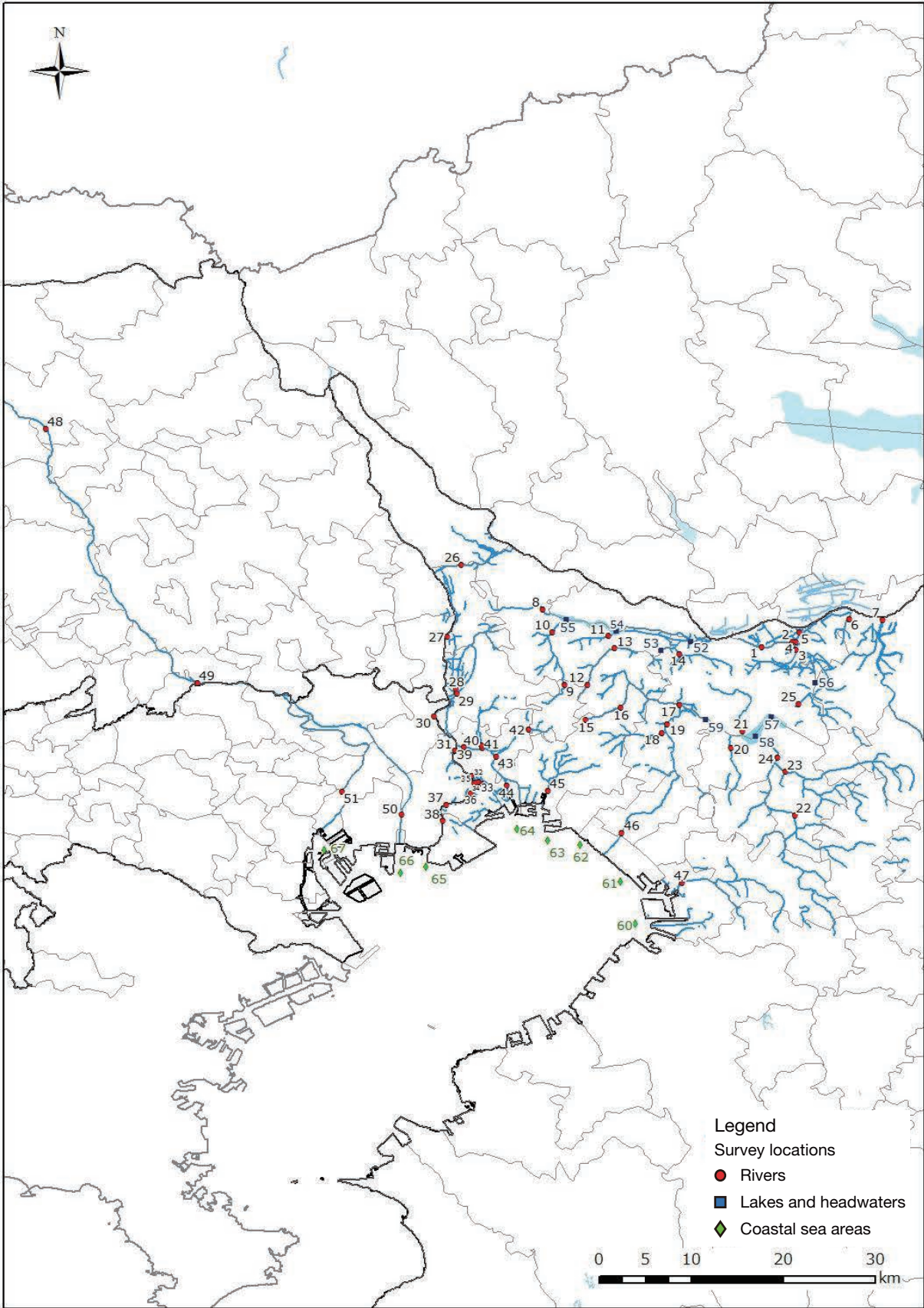
	Sampling point				Sampling date	Weather	Air temperature ℃	Full depth m	Water quality										Remarks	
	No.	Water Body	Point	Municipality					General items						Radioactive material concentrations (Bq/L) *					
									Water temperature ℃	Sampling depth m	Color	Odor	Transparency cm	Electrical conductivity mS/m	SS mg/L	Turbidity	Radioactive iodine I-131	Radioactive cesium Cs-134 Cs-137		
R i v e r s	48	R i v e r A r a k a	Arakawa River Middle Reaches	Onarihashi Bridge	Konosashi City	2012/06/15	Sunny	20.8	2.0	18.9	0.0	Grayish yellow green	None	81	17.3	2.1	1.6	<0.69	<0.87	<0.70
						2012/08/06	Cloudy	30.4	1.5	22.6	0.0	Grayish yellow	None	72	17.9	4.3	1.9	<0.41	<0.61	<0.60
						2012/11/02	Sunny	15.2	2.0	14.4	0.0	Yellowish white	None	54	27.2	12	4.6	<0.63	<0.70	<0.58
						2013/01/21	Sunny	8.0	2.0	5.6	0.0	Greenish yellowish white	None	71	30.4	4.7	2.9	<0.43	<0.60	<0.52
	49	S y w a t e r	Arakawa River Lower Reaches	Sasamehushi Bridge	Todashi City	2012/06/15	Sunny	27.6	0.2	23.3	0.0	Dark grayish yellow green	None	58	26.2	5.1	3.8	<0.47	<0.67	<0.55
						2012/08/06	Cloudy	25.6	1.0	28.7	0.0	Light grayish yellow	None	42	34.3	6.2	2.6	<0.35	<0.68	<0.59
						2012/11/02	Sunny	14.2	0.7	25.7	0.0	Yellowish white	None	45	32.3	7.2	3.3	<0.55	<0.56	<0.62
						2013/01/21	Sunny	7.7	0.7	14.5	0.0	Yellowish white	Faint seaweed	42	72.8	3.2	3.7	<0.52	<0.76	<0.57

Table 4.8.1.2 Saitama Pref. River (Sediment)

	Sampling point				Sampling date	Weather	Air temperature °C	Full depth m	Sediment														Radioactive material concentrations (Bq/kg dried mud)			Remarks
	No.	Water Body	Point	Municipality					General items											Mud content %	Density g/cm <sup>3</sup>	Property	Radioactive iodine I-131	Radioactive cesium		
									Mud temperature °C	Mud sampling depth cm	Color	Odor	Mechanical composition %													
													Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay					Cs-134	Cs-137	
R i v e r s	48	Ri v e r A r a k i	Arakawa River Middle Reach	Onarihashi Bridge	Konosu City	2012/06/15	Sunny	20.8	2.0	18.5	5	Reddish yellowish dark gray	None	0.0	0.0	0.9	71.5	24.2	3.1	0.0	87.4	2.699	Sand	<5.1	9.3	19
						2012/08/06	Cloudy	30.4	1.5	25.6	5	Yellowish white	None	0.0	0.0	0.0	27.5	60.4	12.2	0.0	84.6	2.693	Sand	<4.4	10	15
						2012/11/02	Sunny	15.2	2.0	14.4	1	Dark grayish yellow	None	4.1	3.8	0.0	36.3	45.0	10.8	0.0	82.2	2.685	Silt	<4.1	15	22
						2013/01/21	Sunny	8.0	2.0	5.3	3	Dark grayish reddish yellow	Faint aroused	16.2	19.4	11.4	43.6	6.6	2.8	0.0	89.8	2.698	Sand	<4.7	<6.3	12
49	S y s t e m	Arakawa River Lower Reach	Sasamehashi Bridge	Todashi City	2012/06/15	Sunny	27.6	0.2	28.9	15	Yellowish dark gray	None	0.0	0.0	0.0	19.4	42.2	38.0	0.4	68.3	2.65	Mud/sand	<6.0	96	170	
					2012/08/06	Cloudy	25.6	1.0	28.6	2	Yellowish dark gray	None	0.0	0.0	0.0	46.1	44.3	9.6	0.0	84.5	2.756	Sand	<5.2	25	36	
					2012/11/02	Sunny	14.2	0.7	16.0	2	Yellowish black	None	3.1	4.7	0.0	17.3	18.6	55.5	0.7	57.7	2.598	Sand	<8.2	190	300	
					2013/01/21	Sunny	7.7	0.7	12.2	1	Dark grayish reddish yellow	None	2.7	0.0	0.0	3.9	34.7	56.9	1.9	56.6	2.6	Sand/clay	<9.0	200	340	

Table 4.8.1.3 Saitama Pref. River (Surrounding Environment)

R i v e r s	Sampling point				Sampling date	Weather	Air temperature °C	Surrounding Environment (Soil and Air dose)											Remarks			
	No.	Water Body	Point	Municipality				Left bank					Right bank					Air dose μSv/h				
								Soil			Soil			Soil			Soil					
								General items			Radioactive material concentrations (Bq/kg (dry))			Radioactive material concentrations (Bq/kg (dry))			Radioactive material concentrations (Bq/kg (dry))			Air dose μSv/h		
								Color	Odor	Property	Radioactive iodine I-131	Radioactive cesium		Color	Odor	Property	Radioactive iodine I-131				Radioactive cesium	
				Cs-134	Cs-137					Cs-134	Cs-137											
48	Ri v e r s k a	Saitama River Middle Reach	Onarihashi Bridge	Kumogashi City	2012/06/15	Sunny	20.8	Very dark reddish yellow	Earth	Loamy	-4.7	48	74	0.07	Very dark reddish yellow	Earth	Loamy	-5.8	96	140	0.07	
					2012/08/06	Cloudy	30.4	Dark grayish yellow	Faint earth	Loamy	-4.8	52	88	0.08	Dark grayish yellow	Faint earth	Loamy	-5.9	100	170	0.08	
					2012/11/02	Sunny	15.2	Very dark reddish yellow	Earth	Loamy	-6.4	51	100	0.08	Very dark reddish yellow	Earth	Loamy	-6.8	85	130	0.08	
					2013/01/21	Sunny	8.0	Very dark yellow red	Earth	Loamy	-5.0	31	48	0.07	Very dark yellow red	Earth	Loamy	-5.8	96	150	0.07	
49	S y w a s t e m	Saitama River Lower Reach	Sasamehashi Bridge	Todaishi City	2012/06/15	Sunny	27.6	Very dark reddish yellow	Earth	Loamy	-12	190	270	0.07	Very dark reddish yellow	Earth	Loamy	-5.5	110	160	0.08	
					2012/08/06	Cloudy	25.6	Dark yellow red	Faint earth	Loamy	-12	210	360	0.06	Very dark reddish yellow	Faint earth	Loamy	-7.4	140	210	0.07	
					2012/11/02	Sunny	14.2	Very dark reddish yellow	Earth	Loamy	-9.9	200	320	0.07	Very dark yellow red	Earth	Loamy	-3.9	8.5	19	0.06	
					2013/01/21	Sunny	7.7	Very dark yellow red	Earth	Loamy	-8.4	110	200	0.06	Very dark yellow red	Density g/cm <sup>3</sup>	Loamy	-6.1	73	130	0.07	



Survey Locations (Chiba, Saitama and Tokyo Prefectures)