

## FY2014 Saitama Prefecture Survey Results

[Survey Results]

(1) Water

Rivers

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

(2) Sediments

Rivers

Cs-134: ND - 18 Bq/kg (dry)

Cs-137: 4.6 - 50 Bq/kg (dry)

(3) Surrounding Environment

(a) Rivers

Cs-134: 8.3 - 130 Bq/kg (dry)

Cs-137: 40 - 380 Bq/kg (dry)

(b) Ambient dose rate

Rivers

0.04 - 0.09  $\mu$ Sv/h

# Saitama River (Water) 1/1

R i v e r s	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water											Remarks	
	No.	Water area		Location					Municipality	General items						Activity concentration(Bq/L)					
										Water temperature (°C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium			
																		Cs-134	Cs-137		
48	Arakawa River System	Arakawa River Middle Reaches		Onari Bridge	Konosu City	2014/5/23	Sunny	22.9	1.7	18.5	0.0	Light grayish yellow	faint sewage	28	13.8	24	4.0	<0.61 ± 0.16	<0.62 ± 0.14		
						2014/8/25	Cloudy	30.0	1.5	25.8	0.0	Light grayish greenish yellow	None	53	21.5	16	5.2	<0.54 ± 0.10	<0.55 ± 0.073		
						2014/11/27	Sunny	13.3	2.4	10.9	0.0	Light grayish yellow green	faint sewage	41	20.6	11	2.9	<0.61 ± 0.14	<0.56 ± 0.094		
						2015/2/18	Light rain	5.2	1.5	6.2	0.0	Light grayish reddish yellow	None	62	28.8	5	3.0	<0.60 ± 0.14	<0.55 ± 0.11		
						2014/5/23	Sunny	16.4	0.2	19.6	0.0	Grayish yellow	faint sewage	43	27.8	8	1.6	<0.62 ± 0.12	<0.63 ± 0.13		
	49	Arakawa River System	Arakawa River Lower Reaches		Sasame Bridge	Toda City /Wako City /Ihashi City	2014/8/25	Light rain	24.6	0.3	27.8	0.0	Grayish yellow	faint sewage	59	26.8	5	1.2	<0.60 ± 0.13	<0.58 ± 0.098	
							2014/11/27	Sunny	15.8	0.3	14.8	0.0	Grayish greenish yellow	Medium sewage	32	32.4	6	2.6	<0.69 ± 0.14	<0.74 ± 0.15	
							2015/2/18	Light rain	4.9	0.3	11.6	0.0	Grayish yellow	faint sewage	49	477.0	6	5.5	<0.52 ± 0.095	<0.60 ± 0.12	

# Saitama River (Sediment) 1/1

No.	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment																Remarks								
	Water area	Location	Municipality					Sediment temperature (°C)	Sample length (cm)	Color	Odor	Grain size distribution(%)										Sediment content (%)	Density (g/cm <sup>3</sup> )		Property	Activity concentration (Bq/kg(dry))						
												Coarse gravel		Medium gravel		Fine gravel		Coarse sand		Medium sand						Fine sand		Silt	Clay	Radioactive cesium		
																															Cs-134	Cs-137
R i v e r s	Arakawa River System	Arakawa River Middle Reaches	Onari Bridge	Konosu City	2014/5/21	Sunny	22.9	1.7	18.6	2	Faint hydrogen sulfide	fine sewage	0.1	2.3	0.2	0.1	26.0	46.4	1.0	1.3	74.8	2.61	Sand/gravel	<0.0 ± 2.7	17 ± 3.6	17						
					2014/8/25	Cloudy	30.0	1.5	25.4	4	Blackish brown	faint earth	3.9	23.1	28.5	10.2	20.6	11.5	0.4	1.8	84.2	2.70	Sand/gravel	1.1 ± 0.22	4.6 ± 0.27	5.7						
					2014/11/27	Sunny	13.3	2.4	11.7	6	Black	None	0.0	0.2	0.1	0.1	60.7	32.2	1.6	5.0	73.7	2.712	Sand	<0.2 ± 1.6	10 ± 2.7	10						
		Arakawa River Lower Reaches	Sasame Bridge	Toda City/Wako City/Itabashi City	2015/2/18	Light rain	5.2	1.5	4.5	3	Faint hydrogen sulfide	None	0.0	0.5	0.1	2.4	58.0	33.6	1.4	2.4	75.2	2.607	Sand	<0.1 ± 1.9	10 ± 2.3	10						
					2014/5/21	Sunny	16.4	0.2	17.1	1	Dark olive brown	None	11.3	12.9	8.5	2.0	17.4	39.8	2.9	5.7	73.8	2.692	Gravel/sand	18 ± 4.0	35 ± 5.1	53						
					2014/8/25	Light rain	24.6	0.3	27.4	1	Dark olive brown	fine sewage	7.0	44.7	6.1	2.5	18.0	13.0	2.3	5.1	65.7	2.696	Sand/gravel	12 ± 2.6	36 ± 4.1	48						
					2014/11/27	Sunny	15.8	0.3	13.7	2	Blackish brown	None	0.0	33.4	2.4	1.7	21.0	14.6	12.1	9.3	69.1	2.687	Sand	8.4 ± 2.4	35 ± 4.4	43.8						
					2015/2/18	Light rain	4.9	0.3	8.7	1	Blackish brown	fine sewage	6.3	30.0	5.2	2.5	23.8	30.0	6.8	7.3	62.6	2.648	Sand/gravel	18 ± 3.7	30 ± 5.7	48						

# Saitama River (Surrounding Environment) 1/1

Location					Sampling Date	Weather	Air temperature (°C)	Surrounding Environment (Soil, Air dose)														Remarks
No.	Water area		Location	Municipality				Left bank							Right bank							
								Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air Dose (µSv/h)	Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air Dose (µSv/h)	
											Radioactive cesium							Radioactive cesium				
Cs-134			Cs-137			Total	Cs-134			Cs-137			Total									
R i v e r s	48	Arakawa River System	Arakawa River Middle Reaches	Onari Bridge	Konosu City	2014/5/23	Sunny	22.9	Dark olive brown	faint earth	Loamy	24 ± 5.1	59 ± 8.1	83	0.07	Dark olive brown	faint earth	Loamy	17 ± 2.5	42 ± 3.3	59	0.07
						2014/8/25	Cloudy	30.0	Blackish brown	faint earth	Loamy	18 ± 3.0	56 ± 4.8	74	0.07	Dark olive brown	faint earth	Loamy	17 ± 2.9	64 ± 4.8	81	0.07
						2014/11/27	Sunny	13.3	Blackish brown	faint earth	Loamy	19 ± 4.7	68 ± 7.7	87	0.06	Blackish brown	faint earth	Loamy	21 ± 4.3	57 ± 7.2	78	0.07
						2015/2/18	Light rain	5.2	Grayish brown	faint earth	Loamy	17 ± 4.2	46 ± 6.6	63	0.08	Faint hydrogen sulfide	faint earth	Loamy	8.3 ± 2.2	40 ± 3.8	48.3	0.07
						2014/5/23	Sunny	16.4	Blackish brown	faint earth	Loamy	130 ± 9.2	380 ± 15	510	0.05	Blackish brown	faint earth	Loamy	28 ± 6.6	120 ± 11	148	0.07
	49	Arakawa River Lower Reaches	Sasame Bridge	Toda City /Wako City /Itabashi City	2014/8/25	Light rain	24.6	Dark brown	faint earth	Loamy	120 ± 18	310 ± 27	430	0.06	Blackish brown	faint earth	Loamy	60 ± 8.6	150 ± 13	210	0.09	
					2014/1/27	Sunny	15.8	Blackish brown	faint earth	Loamy	62 ± 12	220 ± 19	282	0.04	Blackish brown	faint earth	Loamy	34 ± 6.4	150 ± 11	184	0.07	
					2015/2/18	Light rain	4.9	Blackish brown	faint earth	Loamy	65 ± 11	240 ± 21	305	0.05	Blackish brown	faint earth	Loamy	25 ± 4.6	110 ± 9.6	135	0.06	

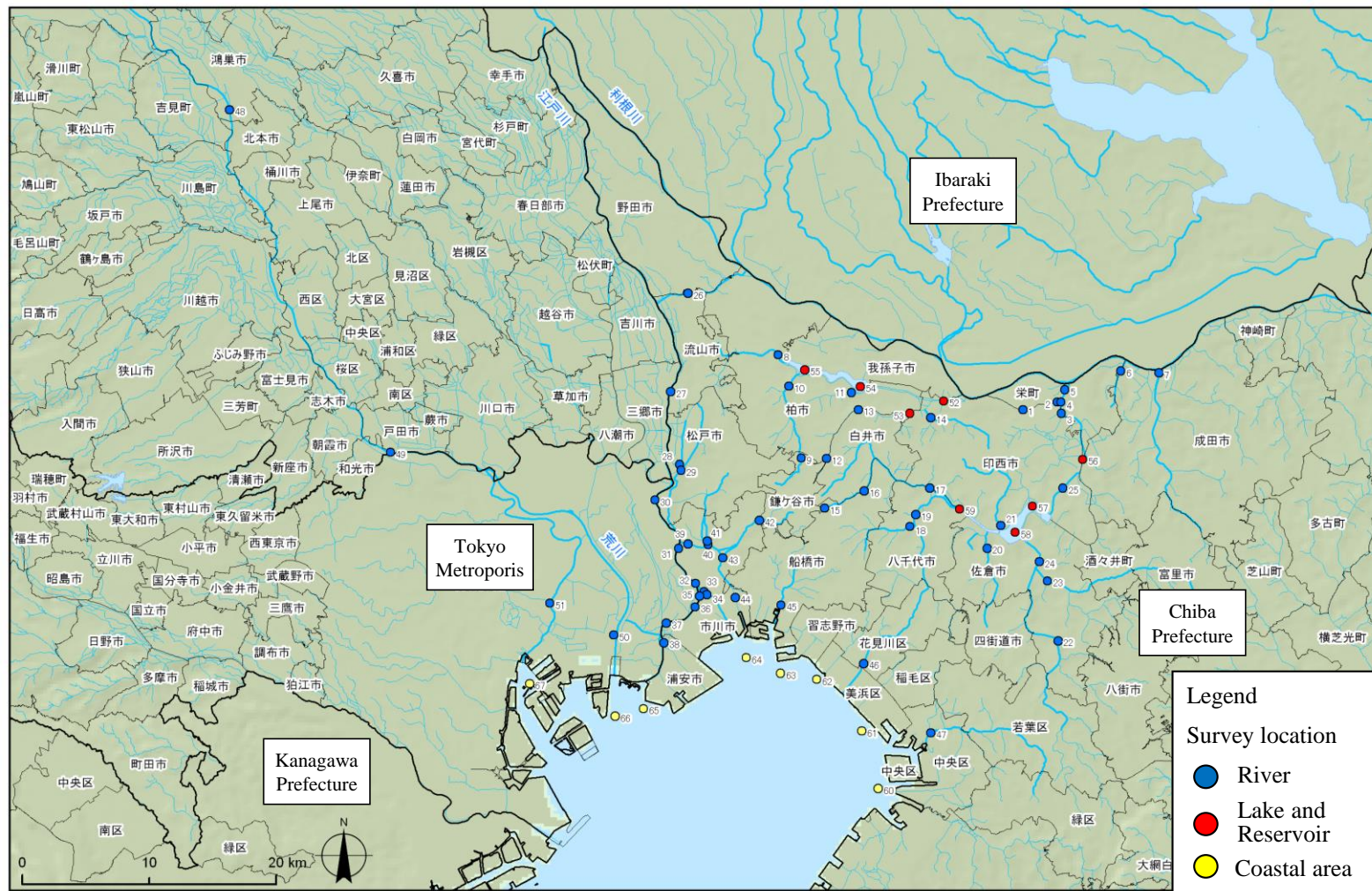


Figure 3.5.8 Survey Locations (Chiba, Saitama, Tokyo Prefectures)