

## FY2013 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: 4.8 - 18 Bq/kg (dry)

Cs-137: 10 - 49 Bq/kg (dry)

#### (3) Surrounding Environment

##### (a) Rivers

Cs-134: 16 - 96 Bq/kg (dry)

Cs-137: 38 - 210 Bq/kg (dry)

##### (b) Ambient dose rate

##### Rivers

0.05 - 0.07  $\mu$ Sv/h

# Saitama River (Water) 1/1

	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	
R i v e r s	48	Arakawa River System	Arakawa River Middle Reaches	Onari Bridge	Konosu City	2013/5/29	Cloudy	22.0	1.5	17.0	0.0	Dark grayish yellow green	None	60	12.6	8	3.2	<0.45	<0.47
						2013/8/21	Cloudy	29.8	2.1	26.3	0.0	Dusky greenish yellow	None	24	17.2	30	10	<0.59	<0.59
						2013/11/22	Sunny	13.8	2.2	10.3	0.0	Dull yellow green	faint sewage	>100	23.4	3	1.8	<0.60	<0.65
						2014/1/30	Cloudy	11.8	1.8	7.3	0.0	Dull yellow green	None	>100	25.4	5	1.9	<0.69	<0.59
						2013/5/29	Cloudy	21.1	0.3	23.1	0.0	Grayish greenish yellow	faint sewage	33	19.8	8	5.0	<0.37	<0.45
	49	Arakawa River System	Arakawa River Lower Reaches	Sasame Bridge	Toda City	2013/8/21	Cloudy	31.3	0.3	30.3	0.0	Grayish yellow green	faint sewage	50	28.1	8	4.8	<0.58	<0.35
						2013/11/22	Sunny	16.3	0.6	16.5	0.0	Dusky greenish yellow	faint sewage	63	46.9	3	2.4	<0.65	<0.52
						2014/1/30	Cloudy	8.5	0.5	13.3	0.0	Dark greenish yellow	faint sewage	54	429.0	6	4.2	<0.73	<0.73

# Saitama River (Sediment) 1/1

Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment																	Remarks		
No.	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	Cs-134				Cs-137		Total	
R i v e r s	48	Arakawa River Middle Reaches	Onari Bridge	Konosu City	2013/5/29	Cloudy	22.0	1.5	17.6	5	Faint hydrogen sulfide	None	0.0	1.8	1.3	0.7	29.9	59.6	1.9	4.8	76.3	2.688	Sand	11	23	34	
					2013/8/21	Cloudy	29.8	2.1	26.2	3	Faint hydrogen sulfide	Faint swamp	0.0	10.0	6.1	4.4	29.1	44.2	2.0	4.3	75.8	2.708	Sand/gravel	11	27	38	
					2013/11/22	Sunny	13.8	2.2	11.4	2	Faint hydrogen sulfide	None	0.0	0.0	0.2	0.1	51.5	44.8	1.4	2.3	76.5	2.691	Sand	4.8	10	14.8	
					2014/1/30	Cloudy	11.8	1.8	7.1	4	Faint hydrogen sulfide	None	0.0	2.0	0.0	0.1	17.2	56.5	18.2	6.0	70.6	2.694	Sand	6.2	19	25.2	
					2013/5/29	Cloudy	21.1	0.3	22.0	5	Faint hydrogen sulfide	Medium swamp	0.0	0.9	1.8	5.2	52.5	34.7	2.1	2.9	77.5	2.702	Sand	15	26	41	
	49	Arakawa River Lower Reaches	Susame Bridge	Toda City	2013/8/21	Cloudy	31.3	0.3	29.7	2	Faint hydrogen sulfide	Faint drain	0.0	4.5	2.6	4.5	42.9	41.3	1.7	2.6	75.8	2.709	Sand	13	36	49	
					2013/11/22	Sunny	16.3	0.6	15.6	1	Grayish olive	Faint swamp	0.0	19.9	3.8	3.4	26.9	29.1	7.3	9.7	62.9	2.681	Silt/sand	18	49	67	
					2014/1/30	Cloudy	8.5	0.5	11.5	1	Faint hydrogen sulfide	Faint swamp	0.0	10.1	3.9	2.9	22.2	30.7	17.5	12.6	55.1	2.651	Silt/sand	10	26	36	

# Saitama River (Surrounding Environment) 1/1

Location					Sampling Date	Weather	Air temperature (°C)	Surrounding Environment(Soil,Air dose)													Remarks	
								Left bank						Right bank								
No.	Water area		Location	Municipality			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	2013/5/29	Cloudy	22.0	Olive brown	None	Loamy	16	38	54	0.07	Olive brown	None	Loamy	28	53	81	0.06
						2013/8/21	Cloudy	29.8	Blackish brown	faint earth	Loamy	20	42	62	0.06	Dark olive brown	faint earth	Loamy	27	47	74	0.06
						2013/11/22	Sunny	13.8	Blackish brown	faint earth	Loamy	28	65	93	0.06	Dark olive brown	faint earth	Loamy	19	48	67	0.07
						2014/1/30	Cloudy	11.8	Olive brown	faint earth	Loamy	26	59	85	0.06	Dark olive brown	faint earth	Loamy	29	80	109	0.06
						2013/5/29	Cloudy	21.1	Dark brown	faint earth	Loamy	87	170	257	0.05	Dark grayish yellow	faint earth	Loamy	93	200	293	0.06
	49	Arakawa River System	Arakawa River Lower Reaches	Sasame Bridge	Toda City	2013/8/21	Cloudy	31.3	Faint hydrogen sulfide	faint earth	Loamy	96	200	296	0.05	Dark grayish yellow	faint earth	Loamy	77	150	227	0.06
						2013/11/22	Sunny	16.3	Blackish brown	faint earth	Loamy	80	210	290	0.05	Dark brown	faint earth	Loamy	74	160	234	0.06
						2014/1/30	Cloudy	8.5	Blackish brown	faint earth	Loamy	39	130	169	0.05	Blackish brown	faint earth	Loamy	63	150	213	0.07



Figure 3.5.8 Survey Locations (Chiba, Saitama, and Tokyo Prefecture)