

FY2024 Ibaraki Prefecture Survey Results

[Outline of results]

(1) Water

Rivers

Radioactive cesium (Cs-134, Cs-137): ND at all measurement points

Lakes and reservoirs

Radioactive cesium (Cs-134, Cs-137): ND at all measurement points

Coastal areas

Radioactive cesium (Cs-134, Cs-137): ND at all measurement points

(2) Sediments

Rivers

Cs-134: ND - 10 Bq/kg (dry)

Cs-137: ND - 530 Bq/kg (dry)

Lakes and reservoirs

Cs-134: ND - 4.6 Bq/kg (dry)

Cs-137: 16 - 550 Bq/kg (dry)

Coastal areas

Cs-134: ND at all measurement points

Cs-137: ND - 9.5 Bq/kg (dry)

(3) Surrounding Environment

(a) Soil

Rivers

Cs-134: ND - 21 Bq/kg (dry)

Cs-137: ND - 1,500 Bq/kg (dry)

Lakes and reservoirs

Cs-134: ND - 17 Bq/kg (dry)

Cs-137: ND - 940 Bq/kg (dry)

(b) Ambient dose rate

Rivers

0.04 - 0.10 μ Sv/h

Lakes and reservoirs

0.04 - 0.10 μ Sv/h

*Surveys conducted from May to August

Ibaraki River(Water) 1/5

Location				Sampling Date	Weather	Air temperature (C)	Water depth (m)	Water								Activity concentration(Bq/L)		Remarks
								General items								Radioactive cesium		
No.	Water Area	Location	Municipality	Water temperature (C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Cs-134	Cs-137					
Rivers	Tagagawa River System	Satone River	Yamagoya Bridge	Kitaibaraki City	2024/5/29	Sunny	21.5	0.1	16.1	0.0	Light grayish yellow green	None	38	11.4	7	2.5	< 0.54	< 0.56
					2024/8/1	Sunny	28.1	0.1	19.8	0.0	Light grayish yellow	None	>100	13.1	2	1.1	< 0.70	< 0.78
					2024/11/5	Sunny	13.4	0.3	13.6	0.0	Light grayish yellow	None	>100	13.0	4	1.1	< 0.68	< 0.65
					2025/1/28	Sunny	10.0	0.2	8.5	0.0	Light grayish yellow	None	>100	12.9	2	0.6	< 0.71	< 0.82
					2024/5/29	Sunny	22.2	0.5	19.6	0.0	Grayish yellow green	None	22	15.0	10	4.3	< 0.67	< 0.81
					2024/8/1	Sunny	29.6	0.5	23.9	0.0	Light grayish yellow	None	>100	19.1	<1	1.4	< 0.74	< 0.77
		Hanazono River	Murayama Bridge	Kitaibaraki City	2024/11/5	Sunny	16.2	0.2	14.5	0.0	Light grayish greenish yellow	None	92	17.2	9	1.6	< 0.52	< 0.61
					2025/1/28	Sunny	10.0	0.4	8.3	0.0	Light grayish yellow	None	>100	16.8	3	0.9	< 0.68	< 0.85
					2024/5/21	Sunny	18.0	0.4	14.8	0.0	Light grayish yellow	None	>100	5.6	2	0.5	< 0.54	< 0.84
					2024/8/1	Sunny	25.0	0.2	20.0	0.0	Light grayish yellow	None	>100	6.4	<1	0.6	< 0.89	< 0.85
					2024/11/5	Sunny	18.3	0.5	12.8	0.0	Light grayish yellow	None	>100	6.1	2	1.0	< 0.84	< 0.79
					2025/1/28	Sunny	9.0	0.4	6.0	0.0	Light grayish yellow	None	>100	6.9	<1	0.3	< 0.77	< 0.77
	Okita River	Isonare Bridge	Takahagi City	2024/5/30	Sunny	19.8	0.3	18.0	0.0	Light grayish yellow green	None	82	15.5	3	1.9	< 0.82	< 0.59	
				2024/8/1	Sunny	32.6	0.3	27.5	0.0	Light grayish reddish yellow	None	65	29.8	5	4.2	< 0.86	< 0.65	
				2024/11/5	Sunny	16.4	0.3	15.5	0.0	Light grayish yellow	None	94	20.8	3	1.6	< 0.80	< 0.72	
				2025/1/28	Sunny	10.0	0.2	7.0	0.0	Light grayish yellow	None	>100	62.0	<1	1.9	< 0.74	< 0.77	
				2024/5/21	Sunny	22.0	0.3	17.0	0.0	Light grayish yellow	None	65	6.2	22	2.4	< 0.83	< 0.81	
				2024/8/1	Sunny	27.7	0.3	19.3	0.0	Light grayish yellow	None	>100	6.4	3	1.3	< 0.57	< 0.74	
	Sakai Bridge	Kitaibaraki City	Takahagi City	2024/11/5	Sunny	18.1	0.3	12.4	0.0	Light grayish yellow	None	>100	6.9	2	1.0	< 0.75	< 0.59	
				2025/1/28	Sunny	8.0	0.3	5.7	0.0	Light grayish yellow	None	>100	7.5	<1	0.3	< 0.93	< 0.77	
				2024/5/30	Sunny	23.6	0.4	19.3	0.0	Light grayish yellow	None	53	11.1	7	1.9	< 0.61	< 0.47	
				2024/8/1	Sunny	31.5	0.3	25.6	0.0	Light grayish reddish yellow	None	80	12.8	6	2.7	< 0.45	< 0.86	
				2024/11/5	Sunny	16.9	0.4	14.8	0.0	Light grayish greenish yellow	None	88	12.2	5	1.7	< 0.81	< 0.79	
				2025/1/28	Sunny	11.0	0.2	7.1	0.0	Light grayish yellow	None	>100	11.7	<1	0.9	< 0.83	< 0.69	
	Shinhananuki Bridge	Takahagi City	Takahagi City	2024/5/30	Sunny	24.5	0.3	21.5	0.0	Light grayish greenish yellow	None	43	10.8	9	2.3	< 0.55	< 0.59	
				2024/8/1	Sunny	31.6	0.3	28.9	0.0	Grayish reddish yellow	None	>100	11.8	6	2.2	< 0.62	< 0.76	
				2024/11/5	Sunny	18.5	0.2	17.4	0.0	Light grayish yellow	None	96	11.5	5	1.3	< 0.48	< 0.61	
				2025/1/28	Sunny	10.0	0.2	8.0	0.0	Light grayish greenish yellow	None	>100	12.4	3	0.8	< 0.87	< 0.64	
				2024/5/14	Sunny	22.1	0.5	16.5	0.0	Light grayish yellow green	None	16	8.7	20	6.5	< 0.89	< 0.77	
				2024/8/1	Sunny	28.6	0.3	28.2	0.0	Light grayish reddish yellow	None	>100	12.0	3	2.2	< 0.64	< 0.61	
	Iwai Bridge	Hitachiomiya City	Hitachiomiya City	2024/11/5	Cloudy	15.6	0.6	15.3	0.0	Light grayish yellow green	None	>100	11.4	2	1.1	< 0.64	< 0.47	
				2025/1/27	Sunny	7.0	0.3	6.4	0.0	Light grayish reddish yellow	None	>100	11.6	<1	0.7	< 0.53	< 0.52	
				2024/5/15	Sunny	20.5	0.6	16.4	0.0	Light grayish yellow green	None	23	10.3	19	5.2	< 0.78	< 0.64	
				2024/8/1	Sunny	29.1	0.8	28.5	0.0	Grayish yellow green	None	60	14.0	8	5.6	< 0.66	< 0.88	
				2024/11/5	Sunny	17.0	0.9	15.7	0.0	Grayish greenish yellow	None	42	13.6	6	2.2	< 0.57	< 0.67	
				2025/1/27	Sunny	8.0	0.6	6.3	0.0	Grayish yellow green	None	>100	46.2	<1	0.8	< 0.72	< 0.68	
Sakaki Bridge	Hitachi City/ Tokai Village	Hitachiomiya City/ Shiroshato Town	2024/5/14	Sunny	16.9	0.6	17.9	0.0	Light grayish yellow green	None	27	12.7	12	2.3	< 0.77	< 0.65		
			2024/8/1	Sunny	30.1	0.2	29.8	0.0	Grayish yellow green	None	65	15.7	3	3.0	< 0.60	< 0.71		
			2024/11/5	Sunny	16.4	0.5	16.4	0.0	Grayish yellow green	None	>100	14.9	4	1.2	< 0.84	< 0.77		
			2025/1/29	Sunny	10.0	0.3	9.0	0.0	Grayish yellow green	None	>100	17.1	<1	0.4	< 0.75	< 0.62		
			2024/5/15	Sunny	23.1	1.0	20.0	0.0	Light grayish yellow green	None	53	12.6	9	2.0	< 0.65	< 0.81		
			2024/8/1	Sunny	30.5	0.8	28.9	0.0	Grayish yellow green	None	70	14.6	4	2.6	< 0.71	< 0.81		
Shimokunii	Mito City	Mito City	2024/11/5	Sunny	15.2	1.2	16.3	0.0	Grayish yellow green	None	32	14.8	5	1.5	< 0.71	< 0.64		
			2025/1/29	Sunny	11.0	0.8	7.7	0.0	Grayish yellow green	None	>100	16.8	2	1.0	< 0.71	< 0.73		
			2024/5/15	Sunny	21.7	4.8	18.6	0.0	Light grayish yellow green	None	37	17.9	20	3.1	< 0.87	< 0.83		
			2024/8/2	Sunny	26.1	5.0	26.5	0.0	Grayish greenish yellow	None	60	720	8	4.2	< 0.63	< 0.85		
			2024/11/5	Cloudy	14.2	6.0	16.1	0.0	Dark grayish yellow green	None	84	17.8	3	2.0	< 0.74	< 0.80		
			2025/1/29	Sunny	11.0	4.0	9.0	0.0	Grayish greenish yellow	None	>100	734	3	1.9	< 0.68	< 0.69		
Katsuta Bridge	Mito City/ Hitachinaka City	Hitachinaka City	2024/5/16	Light Rain	19.9	1.2	19.4	0.0	Light grayish yellow green	None	52	33.0	11	3.5	< 0.72	< 0.59		
			2024/8/2	Sunny	31.6	1.2	27.1	0.0	Light grayish yellow	None	20	189	22	8.5	< 0.84	< 0.78		
			2024/11/6	Cloudy	13.2	1.6	16.0	0.0	Grayish yellow green	None	34	113	5	4.5	< 0.75	< 0.72		
			2025/1/29	Sunny	11.0	1.1	10.3	0.0	Light grayish yellow	None	70	839	6	5.5	< 0.99	< 0.80		
			2024/5/14	Sunny	16.9	0.6	17.9	0.0	Light grayish yellow green	None	27	12.7	12	2.3	< 0.77	< 0.65		
			2024/8/1	Sunny	30.1	0.2	29.8	0.0	Grayish yellow green	None	65	15.7	3	3.0	< 0.60	< 0.71		
Nakagawa River	Mito City	Mito City	2024/11/5	Sunny	15.2	1.2	16.3	0.0	Grayish yellow green	None	32	14.8	5	1.5	< 0.71	< 0.64		
			2025/1/29	Sunny	11.0	0.8	7.7	0.0	Grayish yellow green	None	>100	16.8	2	1.0	< 0.71	< 0.73		
			2024/5/15	Sunny	23.1	1.0	20.0	0.0	Light grayish yellow green	None	53	12.6	9	2.0	< 0.65	< 0.81		
			2024/8/1	Sunny	30.5	0.8	28.9	0.0	Grayish yellow green	None	70	14.6	4	2.6	< 0.71	< 0.81		
			2024/11/5	Sunny	15.2	1.2	16.3	0.0	Grayish yellow green	None	32	14.8	5	1.5	< 0.71	< 0.64		
			2025/1/29	Sunny	11.0	0.8	7.7	0.0	Grayish yellow green	None	>100	16.8	2	1.0	< 0.71	< 0.73		
Yanagisawa Bridge	Hitachinaka City	Hitachinaka City	2024/5/15	Sunny	21.7	4.8	18.6	0.0	Light grayish yellow green	None	37	17.9	20	3.1	< 0.87	< 0.83		
			2024/8/2	Sunny	26.1	5.0	26.5	0.0	Grayish greenish yellow	None	60	720	8	4.2	< 0.63	< 0.85		
			2024/11/5	Cloudy	14.2	6.0	16.1	0.0	Dark grayish yellow green	None	84	17.8	3	2.0	< 0.74	< 0.80		
			2025/1/29	Sunny	11.0	4.0	9.0	0.0	Grayish greenish yellow	None	>100	734	3	1.9	< 0.68	< 0.69		
			2024/5/16	Light Rain	19.9	1.2	19.4	0.0	Light grayish yellow green	None	52	33.0	11	3.5	< 0.72	< 0.59		
			2024/8/2	Sunny	31.6	1.2	27.1	0.0	Light grayish yellow	None	20	189	22	8.5	< 0.84	< 0.78		
Nakamaru River	Hitachinaka City	Hitachinaka City	2024/11/6	Cloudy	13.2	1.6	16.0	0.0	Grayish yellow green	None	34	113	5	4.5	< 0.75	< 0.72		
			2025/1/29	Sunny	11.0	1.1	10.3	0.0	Light grayish yellow	None	70	839	6	5.5	< 0.99	< 0.80		

Ibaraki River(Water) 2/5

Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water								Activity concentration(Bq/L)		Remarks	
								General items								Radioactive cesium			
No.	Water Area		Location	Municipality	Water temperature (°C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Cs-134	Cs-137					
Rivers	Nakagawa River System	Hinumamae River Area	Hinumamae River	Nagaoka Bridge	Ibaraki Town	2024/5/17	Sunny	29.2	0.2	20.9	0.0	Light grayish greenish yellow	None	52	17.4	10	4.4	< 0.56	< 0.58
						2024/8/2	Sunny	33.3	0.3	27.8	0.0	Light grayish yellow green	None	50	20.8	6	4.4	< 0.65	< 0.61
						2024/1/16	Sunny	15.0	0.2	16.7	0.0	Light grayish yellow green	None	42	19.7	8	4.1	< 0.84	< 0.82
			2025/1/28	Sunny	4.1	0.2	7.9	0.0	Light grayish greenish yellow	None	80	26.6	7	3.9	< 0.81	< 0.62			
			2024/5/17	Sunny	26.8	0.2	20.0	0.0	Light grayish greenish yellow	None	49	18.8	15	3.6	< 0.75	< 0.72			
			2024/8/2	Sunny	34.9	0.2	27.9	0.0	Light grayish reddish yellow	None	48	20.8	9	5.0	< 0.63	< 0.69			
		Hinuma River Area	Hinuma River	Takahashi	Ibaraki Town	2024/1/16	Sunny	14.1	0.3	16.5	0.0	Light grayish yellow	None	54	19.6	10	3.8	< 0.78	< 0.85
						2025/1/28	Sunny	7.8	0.1	6.8	0.0	Light grayish reddish yellow	None	>100	26.5	3	1.9	< 0.86	< 0.69
						2024/5/17	Sunny	22.1	0.2	17.0	0.0	Light grayish greenish yellow	None	35	22.5	15	5.4	< 0.57	< 0.74
			Kansei River	Kansei Bridge	2024/8/2	Sunny	32.0	0.4	27.9	0.0	Light grayish reddish yellow	None	58	26.6	6	2.4	< 0.60	< 0.79	
					2024/1/16	Cloudy	16.2	0.3	15.2	0.0	Light grayish yellow	None	52	24.1	14	3.2	< 0.87	< 0.68	
					2025/1/28	Sunny	9.8	0.3	9.9	0.0	Light grayish yellow	None	83	26.2	4	2.3	< 0.96	< 0.89	
	Oya River	Oya Bridge	Hokota City	2024/5/16	Cloudy	21.3	1.3	18.5	0.0	Grayish greenish yellow	None	24	29.8	14	5.3	< 0.68	< 0.69		
				2024/8/2	Sunny	30.7	1.1	23.7	0.0	Grayish yellow	None	50	33.6	8	2.4	< 0.59	< 0.52		
				2024/1/16	Sunny	16.8	0.5	16.0	0.0	Grayish yellow	None	42	35.4	13	5.6	< 0.64	< 0.79		
		Hinuma River	Hinuma Bridge	Mito City/ Oarai Town	2025/1/29	Sunny	11.0	0.6	11.0	0.0	Grayish yellow	None	76	36.2	7	2.4	< 0.81	< 0.83	
					2024/5/16	Cloudy	20.5	0.6	19.3	0.0	Light grayish yellow green	None	32	620	18	4.9	< 0.68	< 0.72	
					2024/8/2	Sunny	29.6	0.5	29.1	0.0	Light grayish reddish yellow	None	65	1,960	9	2.4	< 0.90	< 0.85	
	Tonegawa River System	Hokota River Area	Hokota River	Asahi Bridge	Hokota City	2024/1/16	Sunny	16.3	0.5	17.1	0.0	Grayish yellow	None	52	2,780	8	4.5	< 0.71	< 0.59
						2025/1/29	Sunny	11.0	0.5	10.8	0.0	Light grayish reddish yellow	None	>100	4,390	12	4.6	< 0.72	< 0.82
						2024/5/30	Sunny	26.9	0.6	21.6	0.0	Grayish yellow	None	38	34.8	11	3.7	< 0.82	< 0.84
			Tomoe River	Shintomogawa Bridge	2024/8/5	Sunny	29.2	0.8	25.6	0.0	Light grayish yellow	None	70	36.9	15	3.3	< 0.70	< 0.70	
					2024/1/18	Sunny	17.0	0.9	14.8	0.0	Grayish greenish yellow	None	50	35.7	3	2.9	< 0.94	< 1.0	
					2025/1/28	Sunny	10.4	1.2	10.7	0.0	Grayish greenish yellow	None	87	37.9	6	2.8	< 0.66	< 0.83	
		Taiyo River	Tazuka Bridge	2024/5/30	Sunny	27.7	1.4	22.5	0.0	Grayish yellow	None	22	28.5	17	4.7	< 0.72	< 0.85		
				2024/8/2	Sunny	33.2	0.7	27.9	0.0	Grayish greenish yellow	None	26	27.1	7	3.2	< 0.77	< 0.78		
2024/1/18				Sunny	16.3	0.6	14.5	0.0	Grayish yellow green	None	46	27.5	8	4.1	< 0.75	< 0.75			
Kitaura River Area		Takeda River	Uchijuku-ohashi Bridge	Namekata City	2025/1/28	Sunny	8.7	0.6	9.6	0.0	Grayish greenish yellow	None	>100	33.7	5	2.1	< 0.72	< 0.70	
					2024/5/30	Sunny	26.4	0.1	22.2	0.0	Light grayish yellow green	None	64	26.9	9	3.2	< 0.83	< 0.68	
					2024/8/5	Sunny	24.2	0.3	23.6	0.0	Light grayish reddish yellow	None	50	29.4	6	0.8	< 0.89	< 0.81	
	Yamada River		Nioroshi Bridge	2024/1/18	Sunny	17.1	0.2	14.8	0.0	Light grayish yellow	None	>100	27.3	5	2.1	< 0.63	< 0.88		
				2025/1/29	Sunny	6.1	0.1	9.6	0.0	Light grayish reddish yellow	None	>100	27.5	4	3.0	< 0.54	< 0.56		
				2024/5/30	Sunny	26.5	0.3	22.7	0.0	Light grayish greenish yellow	None	60	29.5	9	2.4	< 0.47	< 0.61		
	Kurakawa River	Kurakawa Bridge	2024/8/5	Sunny	24.3	0.3	23.9	0.0	Light grayish yellow	None	55	31.5	15	2.5	< 0.66	< 0.72			
			2024/1/18	Sunny	16.7	0.3	14.6	0.0	Light grayish yellow	None	48	30.0	8	3.8	< 0.69	< 0.81			
			2025/1/29	Sunny	7.6	0.2	8.9	0.0	Light grayish yellow green	None	90	32.9	4	2.9	< 0.72	< 0.85			
		Gantsu River	JA Yokohashi Bridge	2024/5/30	Sunny	28.1	0.2	23.5	0.0	Light grayish yellow	None	59	30.1	23	3.7	< 0.85	< 0.73		
				2024/8/3	Sunny	33.9	0.2	28.8	0.0	Light grayish reddish yellow	None	>100	27.3	10	3.5	< 0.43	< 0.58		
				2024/1/18	Sunny	15.9	0.3	12.7	0.0	Light grayish yellow	None	26	29.5	20	11	< 0.88	< 0.73		
Suhoi Bridge	Suhoi Bridge	Kashima City	2025/1/29	Sunny	7.1	0.2	7.5	0.0	Light grayish yellow green	None	35	27.3	15	15	< 0.87	< 0.81			
			2024/5/29	Sunny	23.4	0.6	21.7	0.0	Grayish yellow	None	10	23.9	41	9.7	< 0.85	< 0.68			
			2024/8/3	Sunny	32.0	0.5	31.6	0.0	Grayish reddish yellow	None	26	26.4	23	5.6	< 0.96	< 0.82			
	Nagare River	Suhoi Bridge	2024/1/18	Sunny	16.3	0.5	14.3	0.0	Grayish greenish yellow	None	29	27.2	15	8.2	< 0.78	< 0.89			
			2025/1/29	Sunny	10.1	0.4	7.5	0.0	Light grayish yellow green	None	28	28.2	19	9.2	< 0.68	< 0.81			
			2024/5/29	Sunny	23.6	0.3	21.4	0.0	Light grayish reddish yellow	None	12	28.3	45	8.8	< 0.60	< 0.58			
Nagare River	Suhoi Bridge	Kashima City	2024/8/3	Sunny	34.0	0.3	28.5	0.0	Grayish reddish yellow	None	28	29.5	18	3.8	< 0.65	< 0.50			
			2024/1/18	Sunny	16.6	0.2	13.0	0.0	Light grayish yellow	None	36	30.4	9	5.4	< 0.77	< 0.72			
			2025/1/29	Sunny	10.6	0.1	10.1	0.0	Light grayish yellow green	None	31	31.9	17	18	< 0.67	< 0.92			
			2024/5/29	Sunny	23.4	0.1	24.7	0.0	Light grayish yellow green	None	62	37.2	5	4.1	< 0.85	< 0.64			
Nagare River	Suhoi Bridge	Kashima City	2024/8/3	Sunny	31.9	0.1	28.8	0.0	Reddish yellowish pale gray	None	>100	42.8	3	1.2	< 0.85	< 0.73			
			2024/1/18	Sunny	16.3	0.1	12.1	0.0	Light grayish yellow	None	75	39.8	5	3.9	< 0.72	< 0.62			
					2025/1/29	Sunny	11.2	0.1	6.3	0.0	Grayish yellow	None	26	44.1	15	7.1	< 0.68	< 0.72	

Ibaraki River(Water) 3/5

Location				Sampling Date	Weather	Air temperature (C)	Water depth (m)	Water								Activity concentration(Bq/L)		Remarks		
								General items								Radioactive cesium				
No.	Water Area	Location	Municipality	Water temperature (C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Cs-134	Cs-137							
Rivers	Tonegawa River System	Kasumigaura River Area	Sonobe River	Sonobeshin Bridge	Omitama City	2024/5/28	Cloudy	18.4	0.8	21.9	0.0	Light grayish yellow	None	19	28.3	19	7.6	< 0.72	< 0.84	
						2024/8/2	Sunny	32.8	0.8	29.7	0.0	Light grayish yellow	None	60	28.2	7	3.3	< 0.71	< 0.77	
						2024/11/8	Sunny	13.3	0.6	14.1	0.0	Light grayish yellow green	None	40	26.0	7	5.2	< 0.79	< 0.73	
						2025/1/28	Sunny	11.8	0.6	9.6	0.0	Grayish greenish yellow	None	60	32.1	8	5.9	< 0.74	< 0.70	
			28	Sanno River	Tokoro Bridge	Omitama City	2024/5/28	Sunny	21.3	0.7	22.7	0.0	Light grayish yellow	None	33	32.6	14	2.4	< 0.73	< 0.73
							2024/8/2	Sunny	32.8	0.5	30.7	0.0	Light grayish yellow	None	>100	78.0	9	1.3	< 0.78	< 0.85
							2024/11/8	Sunny	14.5	0.4	16.6	0.0	Light grayish greenish yellow	None	70	48.6	2	1.2	< 0.77	< 0.69
							2025/1/28	Sunny	13.1	0.6	12.7	0.0	Light grayish yellow	None	41	125	9	4.8	< 0.54	< 0.75
			29	Koise River	Heiwa Bridge	Ishioka City	2024/5/28	Cloudy	20.9	0.3	21.7	0.0	Light grayish yellow	None	19	27.6	40	11	< 0.85	< 0.79
							2024/8/2	Sunny	32.6	0.2	30.6	0.0	Light grayish yellow	None	35	21.0	15	4.0	< 0.66	< 0.69
							2024/11/8	Sunny	14.9	0.3	13.4	0.0	Light grayish greenish yellow	None	22	22.5	7	4.4	< 0.71	< 0.80
							2025/1/28	Sunny	11.7	0.2	8.9	0.0	Grayish yellow	None	75	21.2	4	3.2	< 0.81	< 0.72
			30	Kajinashi River	Kamishuku Bridge	Namegata City	2024/5/30	Sunny	26.6	0.3	23.7	0.0	Grayish yellow	None	16	30.1	19	7.3	< 0.66	< 0.47
							2024/8/5	Sunny	27.1	0.5	27.9	0.0	Grayish yellow	None	40	29.7	12	1.6	< 0.79	< 0.59
							2024/11/8	Sunny	16.7	0.4	15.7	0.0	Light grayish yellow	None	16	29.1	28	19	< 0.75	< 0.69
							2025/1/28	Sunny	9.8	0.5	11.9	0.0	Grayish yellow	None	53	36.3	8	5.2	< 0.59	< 0.58
			31	Hishiki River	Hishiki Bridge	Kasumigaura City	2024/5/30	Sunny	25.9	0.5	21.2	0.0	Light grayish greenish yellow	None	20	26.9	17	3.7	< 0.88	< 0.59
							2024/8/5	Sunny	29.8	0.3	28.8	0.0	Light grayish yellow	None	85	27.8	6	1.4	< 0.60	< 0.58
							2024/11/8	Sunny	16.2	0.4	14.6	0.0	Light grayish yellow green	None	62	23.4	5	3.7	< 0.74	< 0.77
							2025/2/4	Sunny	9.0	0.4	8.0	0.0	Light grayish yellow	None	>100	24.4	3	2.3	< 0.86	< 0.79
			32	Ichinose River	Kawanaka Bridge	Kasumigaura City	2024/5/30	Sunny	27.8	1.1	22.3	0.0	Grayish yellow	None	24	27.1	16	6.0	< 0.63	< 0.74
							2024/8/5	Sunny	31.6	0.8	28.9	0.0	Light grayish greenish yellow	None	50	28.4	14	3.3	< 0.68	< 0.72
							2024/11/8	Sunny	16.6	1.2	14.3	0.0	Grayish greenish yellow	None	11	26.2	29	23	< 0.74	< 0.88
							2025/2/4	Sunny	11.0	1.0	9.0	0.0	Grayish yellow	None	48	26.2	8	5.0	< 0.63	< 0.50
			33	Sakai River	Sakai Bridge/ National Route 354	Tsuchiura City	2024/5/29	Sunny	18.9	0.4	22.3	0.0	Grayish yellow	None	51	33.1	11	3.4	< 0.61	< 0.69
							2024/8/2	Sunny	32.7	0.2	28.0	0.0	Grayish reddish yellow	None	50	38.8	13	3.5	< 0.59	< 0.84
							2024/11/7	Sunny	8.5	0.4	14.3	0.0	Grayish yellow green	None	52	32.2	8	4.4	< 0.78	< 0.76
							2025/2/4	Sunny	11.0	1.0	11.0	0.0	Light grayish yellow	None	64	44.4	9	5.5	< 0.93	< 0.68
			34	Shinkawa River	Shinten Bridge	Tsuchiura City	2024/5/29	Sunny	22.5	1.5	23.9	0.0	Dark grayish yellow green	None	16	31.4	17	9.1	< 0.82	< 0.72
							2024/8/2	Sunny	33.9	1.3	31.4	0.0	Light grayish yellowish green	None	15	24.3	22	11	< 0.65	< 0.78
							2024/11/7	Sunny	8.6	1.2	13.7	0.0	Grayish yellow green	None	22	31.6	11	7.8	< 0.84	< 0.64
							2025/2/4	Sunny	12.0	1.6	9.4	0.0	Grayish yellow	None	30	37.0	9	6.7	< 0.71	< 0.71
			35	Sakura River	Eiri Bridge	Tsuchiura City/ Tsukuba City	2024/5/30	Cloudy	23.5	0.6	22.7	0.0	Grayish yellow	None	16	25.8	27	8.2	< 0.68	< 0.61
							2024/8/2	Sunny	31.4	0.8	29.2	0.0	Light grayish yellow	None	40	24.5	14	3.2	< 0.71	< 0.68
							2024/11/7	Sunny	12.0	0.6	13.3	0.0	Light grayish yellow	None	50	23.6	12	5.0	< 0.71	< 0.72
							2025/2/4	Sunny	9.0	0.8	9.0	0.0	Grayish yellow	None	32	23.5	20	7.8	< 0.86	< 0.81
			36	Bizen River	Bizengawa Bridge	Tsuchiura City	2024/5/29	Sunny	23.4	0.6	24.8	0.0	Light grayish yellow	None	25	16.2	20	7.8	< 0.68	< 0.76
							2024/8/2	Sunny	28.6	0.9	26.3	0.0	Grayish greenish yellow	None	30	26.2	8	2.4	< 0.52	< 0.56
							2024/11/7	Sunny	12.2	0.6	15.2	0.0	Dark grayish yellow green	None	32	33.7	8	5.2	< 0.75	< 0.76
							2025/2/4	Sunny	11.0	1.0	9.7	0.0	Grayish greenish yellow	None	41	26.5	12	5.4	< 0.62	< 0.91
			37	Hanamuro River	Shinwa Bridge	Tsuchiura City	2024/5/29	Sunny	24.7	0.3	25.9	0.0	Grayish yellow	None	37	24.2	14	3.4	< 0.54	< 0.56
							2024/8/2	Sunny	27.0	0.2	26.3	0.0	Grayish yellow	None	60	26.2	10	3.3	< 0.64	< 0.64
2024/11/7	Sunny	13.9					0.4	15.4	0.0	Light grayish yellow green	None	28	29.7	10	5.0	< 0.90	< 0.59			
2025/2/4	Sunny	9.0					0.2	11.0	0.0	Grayish yellow	None	48	34.3	13	6.2	< 0.76	< 0.96			
38	Seimei River	Katsuhashi Bridge	Ami Town	2024/5/30	Sunny	23.8	0.7	22.1	0.0	Light grayish yellow	None	43	30.9	10	3.1	< 0.67	< 0.75			
				2024/8/2	Sunny	24.5	0.6	27.5	0.0	Light grayish greenish yellow	None	65	32.7	17	4.4	< 0.63	< 0.67			
				2024/11/7	Sunny	14.2	0.6	13.9	0.0	Light grayish greenish yellow	None	52	29.6	6	4.7	< 0.78	< 0.72			
				2025/2/6	Sunny	3.0	0.6	4.0	0.0	Grayish yellow	None	45	43.7	10	5.3	< 0.71	< 0.72			
39	Onogawa River	Okuhara-ohashi Bridge	Ryugasaki City/ Ushiku City	2024/5/30	Sunny	23.9	0.5	23.2	0.0	Light grayish yellow green	None	23	28.6	23	8.5	< 0.79	< 0.68			
				2024/8/5	Sunny	29.3	0.7	27.7	0.0	Light grayish yellow	None	27	27.2	16	4.0	< 0.63	< 0.74			
				2024/11/7	Sunny	15.4	0.6	14.7	0.0	Grayish yellow green	None	33	31.1	8	5.0	< 0.75	< 0.79			
				2025/2/5	Sunny	6.0	0.7	7.0	0.0	Grayish yellow	None	48	41.0	13	7.0	< 0.48	< 0.70			

Ibaraki River (Water) 4/5

No.	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water								Activity concentration(Bq/L)		Remarks
	Water Area	Location	Municipality	General items								Radioactive cesium							
				Water temperature (°C)					Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Cs-134	Cs-137		
40	Kansuigawa River Area	Shintone River	Shintone Bridge	Inashiki City	2024/5/29	Sunny	24.1	1.4	23.6	0.0	Light grayish yellow	None	24	34.8	15	4.2	< 0.66	< 0.60	
					2024/8/5	Sunny	37.2	1.5	34.9	0.0	Light grayish reddish yellow	None	50	77.3	5	2.4	< 0.91	< 0.66	
					2024/11/8	Sunny	11.9	1.6	14.9	0.0	Grayish reddish yellow	None	10	31.1	22	12	< 0.67	< 0.80	
					2025/2/5	Sunny	9.0	1.5	7.0	0.0	Grayish greenish yellow	None	30	45.9	24	14	< 0.67	< 0.78	
	41	Hitachitongawa River Area	Yorokoshi River	Horinouchi Bridge	Itako City	2024/5/29	Sunny	25.8	0.9	21.9	0.0	Grayish yellow	None	10	31.8	39	8.0	< 0.64	< 0.76
						2024/8/3	Sunny	31.9	0.5	25.8	0.0	Light grayish yellow	None	74	38.6	20	5.2	< 0.76	< 0.68
						2024/11/8	Sunny	14.5	0.4	11.3	0.0	Grayish yellow green	None	26	34.9	27	9.7	< 0.59	< 0.62
						2025/2/5	Sunny	9.0	0.6	8.0	0.0	Light grayish yellow	None	47	34.2	10	4.7	< 0.87	< 0.76
	42	Hitachitongawa River Area	Maekawa River	Ayame Bridge	Itako City	2024/5/29	Sunny	25.5	2.2	23.4	0.0	Light grayish yellow	None	26	43.0	13	6.0	< 0.83	< 0.90
						2024/8/3	Sunny	31.6	2.5	32.0	0.0	Grayish greenish yellow	None	66	38.3	10	2.9	< 0.57	< 0.68
						2024/11/8	Sunny	15.3	2.2	16.2	0.0	Grayish yellow	None	21	30.9	12	11	< 0.77	< 0.67
						2025/2/5	Sunny	8.0	2.2	8.0	0.0	Grayish greenish yellow	None	30	38.7	18	22	< 0.67	< 0.60
	43	Kinugawa River Area	Kinugawa River	Kawashima Bridge	Chikusei City	2024/5/10	Sunny	23.6	0.3	16.9	0.0	Light grayish yellow green	None	>100	14.5	4	0.8	< 0.63	< 0.66
						2024/8/3	Sunny	34.2	0.3	30.8	0.0	Grayish yellowish green	None	70	19.5	10	2.0	< 0.79	< 0.68
				2024/11/20	Cloudy	6.1	0.3	10.8	0.0	Grayish yellow green	None	>100	15.4	2	0.8	< 0.70	< 0.71		
				2025/2/6	Sunny	5.0	0.5	7.0	0.0	Grayish yellowish green	None	>100	19.5	6	1.7	< 0.75	< 0.76		
	44	Kinugawa River Area	Kinugawa River	Takishita Bridge	Moriya City	2024/5/31	Cloudy	16.6	0.4	21.9	0.0	Light grayish greenish yellow	None	27	15.2	28	7.3	< 0.67	< 0.83
						2024/8/3	Sunny	30.5	0.4	29.2	0.0	Light grayish yellow green	None	45	22.1	15	3.0	< 0.79	< 0.81
				2024/11/7	Sunny	16.1	0.3	15.3	0.0	Grayish yellow green	None	44	18.8	6	3.1	< 0.78	< 0.76		
				2025/2/5	Sunny	6.0	0.5	8.0	0.0	Grayish yellow green	None	92	23.8	4	2.2	< 0.66	< 0.75		
	45	Kinugawa River Area	Tagawa River	Tagawa Bridge	Chikusei City	2024/5/10	Sunny	23.2	0.3	18.3	0.0	Light grayish yellow	None	24	18.4	28	8.5	< 0.83	< 0.78
						2024/8/3	Sunny	33.8	0.2	29.5	0.0	Light grayish yellow green	None	>100	26.6	3	0.9	< 0.73	< 0.62
				2024/11/20	Cloudy	5.7	0.5	12.2	0.0	Grayish yellow green	None	34	23.1	6	1.0	< 0.55	< 0.68		
				2025/2/7	Sunny	4.0	0.3	6.2	0.0	Light grayish yellow green	None	52	29.2	6	1.8	< 0.74	< 0.81		
	46	Kokai River Area	Kokai River	Kuroko Bridge	Chikusei City	2024/5/10	Sunny	24.1	0.5	18.5	0.0	Light grayish yellow	None	20	16.9	35	10	< 0.68	< 0.79
						2024/8/3	Sunny	34.6	0.7	32.3	0.0	Grayish reddish yellow	None	75	21.7	8	1.5	< 0.76	< 0.72
				2024/11/20	Cloudy	7.1	0.5	11.2	0.0	Grayish yellow	None	58	23.1	4	2.0	< 0.60	< 0.60		
				2025/2/6	Sunny	6.0	0.7	7.0	0.0	Grayish reddish yellow	None	81	26.3	6	4.1	< 0.74	< 0.91		
47	Kokai River Area	Kokai River	Fumimaki Bridge	Toride City	2024/5/30	Sunny	25.8	3.5	24.7	0.0	Light grayish yellow green	None	33	18.7	11	4.9	< 0.63	< 0.74	
					2024/8/5	Sunny	36.8	2.0	32.2	0.0	Grayish yellow	None	45	19.5	7	1.4	< 0.66	< 0.54	
			2024/11/7	Sunny	13.8	1.8	15.8	0.0	Grayish yellow green	None	34	20.8	21	6.3	< 0.68	< 0.82			
			2025/2/6	Sunny	5.0	2.0	5.0	0.0	Grayish greenish yellow	None	47	26.3	5	3.5	< 0.75	< 0.85			
48	Yatagawa River Area	Yatagawa River	Maruyama Bridge	Tsukuba City	2024/5/31	Light Rain	17.3	0.7	20.3	0.0	Grayish reddish yellow	None	10	12.4	85	14	< 0.73	< 0.73	
					2024/8/3	Sunny	27.3	0.8	28.4	0.0	Grayish greenish yellow	None	55	25.2	11	2.9	< 0.79	< 0.88	
			2024/11/7	Sunny	15.4	1.1	16.0	0.0	Grayish yellow	None	32	27.0	5	3.0	< 0.78	< 0.72			
			2025/2/6	Sunny	8.0	1.2	7.0	0.0	Grayish greenish yellow	None	87	27.3	5	3.6	< 0.71	< 0.75			
49	Nishiyata River Area	Nishiyata River	Sakaimatsu Bridge	Tsukuba City	2024/5/31	Cloudy	18.6	0.8	22.1	0.0	Grayish reddish yellow	None	20	18.0	13	5.1	< 0.93	< 0.68	
					2024/8/3	Sunny	28.9	0.9	28.5	0.0	Light grayish yellow	None	15	23.3	20	4.0	< 0.50	< 0.50	
			2024/11/7	Sunny	15.6	0.8	15.9	0.0	Light grayish yellow green	None	18	28.3	27	16	< 0.68	< 0.59			
			2025/2/6	Sunny	10.0	0.3	8.0	0.0	Light grayish yellow	None	25	27.7	21	17	< 0.57	< 0.70			
50	Inari River Area	Inari River	Oguki Bridge	Tsukuba City	2024/5/30	Sunny	24.8	0.7	24.4	0.0	Dark grayish yellow green	None	31	22.8	16	3.9	< 0.49	< 0.56	
					2024/8/5	Sunny	36.3	0.7	29.9	0.0	Grayish greenish yellow	None	52	21.3	7	1.5	< 0.85	< 0.69	
			2024/11/7	Sunny	15.4	0.5	15.4	0.0	Grayish yellow	None	68	24.4	4	2.3	< 0.75	< 0.79			
			2025/2/6	Sunny	8.0	0.8	7.0	0.0	Grayish greenish yellow	None	72	28.0	5	5.5	< 0.80	< 0.69			
51	Kurihashi River Area	Kurihashi Bridge	Koga City	Koga City	2024/5/28	Cloudy	21.2	0.8	18.3	0.0	Grayish yellow green	None	65	17.5	9	2.1	< 0.79	< 0.79	
					2024/8/3	Sunny	32.4	0.5	29.1	0.0	Light grayish yellow	None	35	16.9	7	2.0	< 0.82	< 0.72	
			2024/11/20	Light Rain	11.2	0.8	10.4	0.0	Grayish yellow green	None	51	22.1	6	2.3	< 0.75	< 0.62			
			2025/2/7	Sunny	6.0	0.6	4.0	0.0	Light grayish yellow green	None	>100	22.4	5	2.7	< 0.81	< 0.76			
52	Tonegawa River Area	Tonegawa River	Fukawa	Tone Town	2024/5/30	Sunny	24.1	0.9	24.2	0.0	Grayish yellow	None	46	22.9	8	2.8	< 0.86	< 0.61	
					2024/8/5	Sunny	30.4	1.0	31.8	0.0	Grayish yellow green	None	25	22.0	7	1.2	< 0.49	< 0.66	
			2024/11/7	Sunny	13.6	0.8	15.2	0.0	Light grayish yellow green	None	28	21.2	8	4.5	< 0.71	< 0.72			
			2025/2/5	Sunny	7.0	1.0	8.0	0.0	Grayish yellow green	None	74	25.2	6	4.8	< 0.69	< 0.60			

Ibaraki River(Water) 5/5

Rivers	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
53	Tonegawa River System	Tonegawa River Area	Tonegawa River	Sawara	Inashiki City	2024/5/29	Sunny	21.8	0.3	24.9	0.0	Light grayish yellow	None	24	29.6	25	4.7	< 0.89	< 0.62		
						2024/8/3	Sunny	27.6	0.5	30.4	0.0	Grayish yellow green	None	60	25.5	6	1.4	< 0.82	< 0.72		
						2024/11/8	Sunny	9.0	0.2	14.3	0.0	Light grayish yellow	None	41	22.7	8	2.1	< 0.87	< 0.88		
						2025/2/5	Sunny	7.0	0.6	8.0	0.0	Grayish yellow green	None	38	32.5	19	14	< 0.68	< 0.76		

Ibaraki River (Sediment) 1/4

Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment temperature (°C)	Sediment														Activity concentration [Bq/kg(dry)]			Remarks
No.	Water Area	Location	Municipality						Sample length (cm)	Color	Odor	Grain size distribution(%)						Sediment content (%)	Density (Mg/m³)	Property	Radioactive cesium					
												Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand				silt	clay	Cs-134	Cs-137	Total	
Rivers	Tagagawa River System	Satone River	Yamagoya Bridge	2024/5/29	Sunny	21.5	0.1	15.5	3	Dark grayish yellow	None	0.0	0.5	36.3	44.7	16.5	1.4	0.2	0.4	80.6	2.74	sand/gravel	< 6.4	18 ± 2.7	18	
				2024/8/1	Sunny	28.1	0.1	24.3	3	Brownish black	None	0.0	0.3	15.7	33.9	43.4	4.1	1.7	0.9	85.6	2.75	gravel/sand	< 2.8	14 ± 1.5	14	
				2024/11/5	Sunny	13.4	0.3	13.2	4	Yellow brown	None	0.0	0.1	19.7	56.4	22.8	0.8	0.1	0.1	80.0	2.75	gravel/sand	< 6.6	9.0 ± 2.6	9.0	
				2025/1/28	Sunny	10.0	0.2	9.0	3	Dark grayish yellow	None	0.0	0.0	19.3	58.3	16.8	2.4	1.7	1.5	82.8	2.79	gravel/sand	< 5.2	20 ± 2.7	20	
				2024/5/29	Sunny	22.2	0.5	18.0	3	Brownish gray	None	0.0	1.2	33.0	37.3	22.9	3.7	0.8	1.1	82.3	2.75	sand/gravel	< 6.3	12 ± 2.3	12	
				2024/8/1	Sunny	29.6	0.5	24.6	4	Brownish black	None	0.0	0.3	12.0	16.2	55.2	12.2	2.9	1.2	79.0	2.83	sand/gravel	< 2.9	24 ± 2.0	24	
		2	Murayama Bridge	Kitaibaraki City	2024/11/5	Sunny	16.2	0.2	13.6	3	Olive brown	None	0.0	0.1	20.9	35.4	41.4	1.6	0.4	0.2	81.6	2.73	gravel/sand	< 7.3	14 ± 3.3	14
					2025/1/28	Sunny	10.0	0.4	9.0	4	Dark grayish yellow	None	0.0	0.0	12.8	29.5	53.3	2.7	0.9	0.8	77.0	2.74	sand/gravel	< 7.3	18 ± 2.7	18
					2024/5/21	Sunny	18.0	0.4	14.5	3	Yellow brown	None	0.0	0.0	5.3	48.2	43.4	2.3	0.3	0.5	79.8	2.71	gravel/sand	< 4.4	10 ± 1.8	10
					2024/8/1	Sunny	25.0	0.2	19.8	3	Yellow brown	None	0.0	0.0	6.7	48.8	43.1	1.2	0.1	0.1	79.0	2.72	sand/gravel	< 2.6	12 ± 1.2	12
					2024/11/5	Sunny	18.3	0.5	12.5	3	Yellow brown	None	0.0	0.0	5.4	31.1	54.9	7.4	0.5	0.7	75.9	2.73	sand/gravel	< 7.8	16 ± 3.4	16
					2025/1/28	Sunny	9.0	0.4	6.0	3	Dark grayish yellow	None	0.0	0.0	5.6	41.2	48.6	3.7	0.5	0.4	76.6	2.73	sand/gravel	< 7.8	17 ± 2.8	17
		3	Hanazono River	Kurabeishi	2024/5/30	Sunny	19.8	0.3	16.8	3	Brownish gray	None	0.0	0.3	15.5	34.2	47.1	2.1	0.3	0.5	77.9	2.69	sand/gravel	< 6.3	20 ± 3.2	20
					2024/8/1	Sunny	32.6	0.3	27.6	4	Brownish black	Faint swamp	0.0	0.5	24.0	36.8	36.7	1.5	0.2	0.3	85.2	2.69	sand/gravel	< 2.6	7.9 ± 1.1	7.9
					2024/11/5	Sunny	16.4	0.3	15.0	2	Dull yellow brown	None	0.0	1.5	26.1	30.8	37.2	3.5	0.4	0.5	79.7	2.73	gravel/sand	< 8.2	18 ± 3.4	18
					2025/1/28	Sunny	10.0	0.2	8.0	3	Dark grayish yellow	None	0.0	0.2	10.8	21.4	61.9	4.7	0.6	0.4	75.8	2.69	sand/gravel	< 5.8	18 ± 2.9	18
		4	Ionnare Bridge	Kitaibaraki City	2024/5/21	Sunny	22.0	0.3	15.2	4	Olive brown	None	0.0	0.2	17.8	31.3	41.1	8.1	0.8	0.7	75.9	2.77	sand/gravel	< 6.1	9.4 ± 2.3	9.4
					2024/8/1	Sunny	27.7	0.3	18.6	3	Olive brown	None	0.0	0.8	26.9	42.9	26.1	2.8	0.2	0.3	80.6	2.74	sand/gravel	< 2.9	9.4 ± 1.3	9.4
					2024/11/5	Sunny	18.1	0.3	12.1	3	Yellow brown	None	0.0	0.1	21.3	37.4	35.5	5.0	0.5	0.2	79.0	2.78	sand/gravel	< 5.8	8.4 ± 1.8	8.4
					2025/1/28	Sunny	8.0	0.3	6.0	3	Dark grayish yellow	None	0.0	0.3	24.7	22.9	44.1	6.3	0.8	0.9	78.1	2.77	gravel/sand	< 4.5	19 ± 1.9	19
		5	Okita River	Sakai Bridge	2024/5/30	Sunny	23.6	0.4	18.4	3	Dark grayish yellow	None	0.0	1.2	31.9	41.7	21.0	3.2	0.5	0.5	86.8	2.69	sand/gravel	< 5.3	13 ± 2.5	13
					2024/8/1	Sunny	31.5	0.3	27.0	4	Dark grayish yellow	None	0.0	1.8	31.7	31.8	30.3	3.5	0.3	0.6	79.4	2.70	sand/gravel	< 6.2	21 ± 3.3	21
					2024/11/5	Sunny	16.9	0.4	14.2	3	Dull yellow brown	None	0.0	0.1	9.8	61.6	27.5	0.7	0.2	0.1	82.5	2.68	gravel/sand	< 7.3	12 ± 2.5	12
					2025/1/28	Sunny	11.0	0.2	7.0	4	Olive brown	None	0.0	0.2	21.3	20.6	52.2	4.7	0.5	0.5	82.9	2.76	sand/gravel	< 4.2	16 ± 2.3	16
6	Sakai Bridge	Kitaibaraki City	2024/5/30	Sunny	24.5	0.3	19.9	3	Olive brown	None	0.0	0.0	1.7	37.4	59.3	1.1	0.1	0.4	78.5	2.66	sand/gravel	< 6.5	23 ± 3.3	23		
			2024/8/1	Sunny	31.6	0.3	28.0	4	Olive brown	Faint phytoplankton	0.0	0.0	0.6	16.4	60.3	21.3	0.9	0.5	75.5	2.66	sand/gravel	< 6.3	36 ± 3.9	36		
			2024/11/5	Sunny	18.5	0.2	16.1	4	Dull yellow brown	None	0.0	0.0	0.8	16.6	70.1	11.9	0.4	0.2	73.8	2.67	sand	< 6.6	26 ± 4.2	26		
			2025/1/28	Sunny	10.0	0.2	8.0	3	Olive brown	None	0.0	0.1	12.9	35.2	44.6	6.3	0.4	0.5	78.9	2.68	sand/gravel	< 6.2	10 ± 2.3	10		
7	Hananuki River	Takahagi City	2024/5/14	Sunny	22.1	0.5	15.7	3	Dark grayish yellow	Faint seaweed	0.0	2.5	16.7	19.8	54.7	5.1	0.5	0.7	85.6	2.68	sand/gravel	< 5.9	11 ± 2.0	11		
			2024/8/1	Sunny	28.6	0.3	27.9	3	Brownish black	Faint swamp	0.0	0.1	6.1	8.2	70.8	10.3	3.4	1.1	76.8	2.67	sand/gravel	< 6.6	11 ± 2.8	11		
			2024/11/5	Cloudy	15.6	0.6	14.6	3	Grayish yellow brown	None	0.0	1.2	34.2	29.9	29.0	4.2	1.0	0.5	81.2	2.69	gravel/sand	< 4.1	5.6 ± 1.2	5.6		
			2025/1/27	Sunny	7.0	0.3	7.0	3	Dark grayish yellow	Faint swamp	0.0	1.0	26.5	12.3	43.2	14.6	1.4	1.0	80.3	2.70	sand/gravel	< 8.3	10 ± 2.6	10		
8	Iwai Bridge	Hitachiomiya City	2024/5/15	Sunny	29.5	0.6	17.0	4	Dark brown	None	0.0	0.0	1.4	2.4	24.7	35.7	14.8	21.0	61.7	2.68	silt/sand	< 7.3	50 ± 4.1	50		
			2024/8/1	Sunny	29.1	0.8	27.8	5	Dark olive brown	None	0.0	0.0	0.1	0.2	47.8	38.9	7.4	5.6	73.6	2.67	sand/silt	< 6.7	21 ± 3.8	21		
			2024/11/5	Sunny	17.0	0.9	14.1	2	Grayish yellow brown	None	0.0	0.4	17.3	17.9	52.5	10.8	0.6	0.5	79.2	2.73	gravel/sand	< 3.7	4.8 ± 1.1	4.8		
			2025/1/27	Sunny	8.0	0.6	7.0	3	Dark olive brown	None	0.0	0.0	0.9	2.7	33.2	45.0	10.6	7.6	69.3	2.70	sand/silt	< 7.4	18 ± 3.3	18		
9	Sakaki Bridge	Hitachi City/ Tokai Village	2024/5/14	Sunny	16.9	0.6	16.9	3	Brownish black	None	0.0	3.3	43.8	17.3	21.3	11.8	1.2	1.3	83.6	2.71	gravel/sand	< 7.4	12 ± 2.4	12		
			2024/8/1	Sunny	30.1	0.2	29.3	3	Dark brown	None	0.0	3.4	43.9	22.7	21.8	7.3	0.2	0.7	85.3	2.71	gravel/sand	< 5.5	10 ± 2.6	10		
			2024/11/5	Sunny	16.4	0.5	16.0	3	Grayish yellow brown	None	0.0	2.6	53.1	21.5	14.7	7.2	0.5	0.4	83.4	2.70	gravel/sand	< 5.6	6.2 ± 1.9	6.2		
			2025/1/29	Sunny	10.0	0.3	9.0	3	Dark grayish yellow	None	0.0	0.7	27.0	22.1	48.3	1.5	0.3	0.1	83.3	2.70	gravel/sand	< 3.4	5.2 ± 1.1	5.2		
10	Nakagawa River	Hitachiomiya City/ Shiroato Town	2024/5/15	Sunny	23.1	1.0	18.6	3	Gray	None	0.0	0.0	0.1	0.1	29.1	52.3	4.9	13.5	67.3	2.71	silt/sand	< 7.7	25 ± 3.8	25		
			2024/8/1	Sunny	30.5	0.8	29.3	3	Olive black	Faint ditch	3.5	1.8	0.2	0.3	20.3	38.0	14.8	21.1	55.4	2.64	sand/silt	< 5.8	63 ± 4.8	63		
			2024/11/5	Sunny	15.2	1.2	15.8	3	Olive black	Faint ditch	0.0	0.0	0.0	0.1	16.8	62.6	10.4	10.1	65.8	2.71	silt/sand	< 8.0	41 ± 5.4	41		
			2025/1/29	Sunny	11.0	0.8	7.0	3	Olive black	Faint ditch	0.0	0.0	0.1	14.2	62.7	12.5	10.5	65.8	2.72	silt/sand	< 7.1	29 ± 4.2	29			
11	Shimokuni	Mito City	2024/5/15	Sunny	21.7	4.8	19.3	3	Dark grayish yellow	Faint seaweed	0.0	0.0	0.5	1.3	47.7	10.4	3.2	6.3	70.4	2.69	sand/gravel	< 5.7	34 ± 4.2	34		
			2024/8/2	Sunny	26.1	5.0	26.6	3	Brownish black	Faint ditch	0.0	0.0	0.4	0.6	24.8	62.7	5.8	5.7	68.5	2.69	silt/sand	< 5.3	32 ± 3.3	32		
			2024/11/5	Cloudy	14.2	6.0	15.6	3	Olive black	None	0.0	0.0	1.1	1.4	91.2	1.4	1.2	0.7	75.9	2.68	sand	< 9.1	10 ± 2.9	10		
			2025/1/29	Sunny	11.0	4.0	11.0	3	Brownish black	Faint ditch	0.0	0.0	0.0	0.4	61.4	13.5	10.6	14.1	52.9	2.68	silt/sand	< 8.7	38 ± 4.4	38		
12	Katsuta Bridge	Mito City/ Hitachinaka City	2024/5/16	Light Rain	19.9	1.2	20.5	3	Olive black	Faint sewage	0.0	0.0	0.5	0.8	14.1	41.8	20.9	21.9	46.6	2.59	silt/sand	< 8.4	99 ± 7.4	99		
			2024/8/2	Sunny	31.6	1.2	29.8	3	Olive black	Faint ditch	0.0	0.0	3.4	4.8	14.0	28.3	32.8	16.7	40.5	2.61	silt	< 7.8	120 ± 6.8	120		
			2024/11/6	Cloudy	13.2	1.6	15.8	3	Brownish black	None	0.0	0.0	1.3	2.6	9.4	40.2	23.6	22.9	47.6	2.61	silt	< 8.4	130 ± 7.7	130		
			2025/1/29	Sunny	11.0	1.1	11.0	3	Black	Faint ditch	0.0	0.0	0.0	0.1	9.8	77.9	5.3	6.9	70.5	2.73	silt/sand	< 7.3	39 ± 4.6	39		
13	Nakamaru River	Yanagisawa Bridge	Hitachinaka City	2024/5/17	Sunny	29.2	0.2	20.5																		

Ibaraki River (Sediment) 2/4

No.	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment temperature (°C)	Sediment														Activity concentration [Bq/kg(dry)]				Remarks
	Water Area	Location	Municipality	Sample length (cm)						Color	Odor	Grain size distribution(%)								Sediment content (%)	Density (Mg/m³)	Property	Radioactive cesium					
												Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt	clay				Cs-134	Cs-137	Total			
17	Nakagawa River System	Himnagawa River Area	Oya River	Oya Bridge	Hokota City	2024/5/16	Cloudy	21.3	1.3	19.3	3	Dark brown	None	0.0	0.1	8.2	21.1	46.2	18.7	2.0	3.7	74.4	2.66	sand/gravel	< 5.7	65 ± 4.9	65	
						2024/8/2	Sunny	30.7	1.1	25.2	4	Dark brown	Faint ditch	0.0	0.1	7.8	11.7	26.8	48.4	3.9	1.3	77.2	2.68	sand/gravel	< 7.7	54 ± 4.8	54	
18	Nakagawa River System	Himnagawa River Area	Hinuma River	Hinuma Bridge	Mito City/ Oarai Town	2024/1/16	Sunny	16.8	0.5	14.8	3	Dull yellow brown	None	0.0	0.0	0.3	4.1	71.7	22.9	0.7	0.3	75.3	2.67	sand	< 6.5	45 ± 4.2	45	
						2025/1/29	Sunny	11.0	0.6	11.0	3	Dark brown	Faint ditch	0.0	0.0	3.6	17.6	63.5	11.2	2.4	1.7	70.7	2.67	sand/gravel	< 6.1	58 ± 4.9	58	
19	Nakagawa River System	Himnagawa River Area	Hinuma River	Hinuma Bridge	Mito City/ Oarai Town	2024/5/16	Cloudy	20.5	0.6	18.8	3	Black	Faint sewage	0.0	0.2	3.4	5.5	49.6	30.1	4.3	6.9	73.1	2.70	sand/silt	< 8.4	93 ± 6.6	93	
						2024/8/2	Sunny	29.6	0.5	29.5	3	Olive black	Faint ditch	0.0	0.3	8.4	11.8	39.9	26.0	4.6	9.1	71.2	2.68	silt	< 5.0	92 ± 4.6	92	
20	Nakagawa River System	Himnagawa River Area	Hinuma River	Hinuma Bridge	Mito City/ Oarai Town	2024/1/16	Sunny	16.3	0.5	16.2	3	Black	Faint hydrogen sulfide	0.0	0.2	5.5	9.7	39.1	25.7	15.2	4.6	63.3	2.65	silt/sand	< 9.0	120 ± 7.2	120	
						2025/1/29	Sunny	11.0	0.5	11.0	3	Olive black	Faint ditch	0.0	0.7	24.4	19.2	32.8	10.5	3.8	8.6	72.6	2.71	sand/silt	< 8.3	180 ± 9.4	180	
21	Nakagawa River System	Himnagawa River Area	Hokota River	Asahi Bridge	Hokota City	2024/5/30	Sunny	26.9	0.6	22.7	3	Dark grayish yellow	Faint ditch	0.0	0.0	2.4	14.4	67.3	8.2	3.3	4.4	75.0	2.64	sand/gravel	< 8.2	34 ± 4.3	34	
						2024/8/5	Sunny	29.2	0.8	24.9	3	Dark olive brown	Faint swamp	0.0	3.5	3.8	10.9	67.2	9.5	1.8	3.3	73.3	2.66	sand	< 6.6	50 ± 4.4	50	
22	Nakagawa River System	Himnagawa River Area	Hokota River	Asahi Bridge	Hokota City	2024/1/18	Sunny	17.0	0.9	14.0	3	Brownish black	Faint fish	0.0	0.0	1.6	11.9	73.2	10.3	1.1	1.9	74.5	2.68	sand	< 7.3	39 ± 4.9	39	
						2025/1/28	Sunny	10.4	1.2	10.5	3	Olive black	Faint sewage	0.0	0.0	2.1	10.8	75.4	9.3	1.3	1.1	74.3	2.66	sand	< 6.9	36 ± 4.7	36	
23	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/5/30	Sunny	27.7	1.4	22.3	3	Brownish black	None	0.0	0.0	0.3	2.1	52.9	38.5	2.6	3.6	76.0	2.79	sand	< 7.3	28 ± 4.0	28	
						2024/8/2	Sunny	33.2	0.7	27.7	4	Dull yellow brown	Faint swamp	0.0	0.0	0.0	0.1	2.5	78.5	4.2	14.7	64.9	2.69	silt/sand	< 9.4	52 ± 5.5	52	
24	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/1/18	Sunny	16.3	0.6	13.4	4	Olive black	Faint ditch	0.0	0.0	0.0	0.1	2.1	77.3	7.6	12.9	57.5	2.68	silt	< 8.5	57 ± 5.0	57	
						2025/1/28	Sunny	8.7	0.6	9.2	3	Dark olive brown	Faint sewage	0.0	0.0	0.0	0.1	4.3	71.3	8.4	15.9	54.4	2.65	silt/sand	< 8.7	58 ± 7.0	58	
25	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/5/30	Sunny	26.4	0.1	22.3	3	Dark brown	Faint ditch	0.0	0.0	2.2	9.0	33.8	44.8	4.6	5.6	74.7	2.68	sand	< 6.5	41 ± 4.5	41	
						2024/8/5	Sunny	24.2	0.3	23.4	4	Dull yellow brown	Faint swamp	0.0	0.0	0.4	4.0	42.7	44.2	3.1	5.6	70.1	2.68	sand	< 6.9	59 ± 5.3	59	
26	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/1/18	Sunny	17.1	0.2	13.8	3	Dull yellow brown	None	0.0	0.0	0.1	2.4	72.2	22.4	0.6	1.3	77.9	2.69	sand	< 7.8	32 ± 4.3	32	
						2025/1/29	Sunny	6.1	0.1	8.9	3	Dark brown	None	0.0	0.0	0.2	9.5	74.5	14.6	0.7	0.5	78.7	2.66	sand	< 8.0	24 ± 3.5	24	
27	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/5/30	Sunny	26.5	0.3	21.7	3	Grayish yellow brown	None	0.0	0.0	0.6	7.6	80.8	10.2	0.3	0.5	77.0	2.66	sand	< 5.3	30 ± 4.0	30	
						2024/8/5	Sunny	24.3	0.3	23.6	4	Dark olive brown	Faint swamp	0.0	0.0	0.1	0.4	24.9	65.3	3.4	5.9	69.8	2.69	sand	< 6.0	50 ± 5.0	50	
28	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/1/18	Sunny	16.7	0.3	13.9	3	Dark brown	None	0.0	0.0	0.6	8.7	69.7	18.1	1.3	1.6	78.5	2.67	sand	< 8.3	22 ± 3.7	22	
						2025/1/29	Sunny	7.6	0.2	9.2	3	Dark olive brown	None	0.0	0.0	0.8	11.7	68.1	15.4	2.6	1.4	76.6	2.66	sand/gravel	< 8.7	37 ± 4.7	37	
29	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/5/30	Sunny	28.1	0.2	22.9	3	Dark brown	None	0.0	0.0	8.4	11.6	44.1	25.4	3.8	6.7	75.0	2.68	sand/gravel	< 9.3	36 ± 5.1	36	
						2024/8/5	Sunny	33.9	0.2	29.9	4	Brownish black	Faint swamp	0.0	0.0	1.1	5.2	61.0	29.4	1.5	1.8	74.5	2.67	sand	< 7.2	20 ± 3.1	20	
30	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/1/18	Sunny	15.9	0.3	12.1	3	Dark brown	Faint swamp	0.0	0.0	1.0	11.7	68.2	13.9	2.7	2.5	74.0	2.67	sand/gravel	< 5.6	25 ± 3.3	25	
						2025/1/29	Sunny	7.1	0.2	6.8	3	Brownish black	None	0.0	0.0	1.8	5.9	47.3	22.4	8.7	13.9	65.5	2.68	sand/gravel	< 9.9	39 ± 5.7	39	
31	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/5/29	Sunny	23.4	0.6	23.1	2	Grayish yellow brown	None	0.0	0.1	14.3	36.6	45.7	1.8	0.7	8.8	82.1	2.67	sand/gravel	< 5.8	24 ± 3.3	24	
						2024/8/5	Sunny	32.0	0.5	29.5	5	Dark olive brown	Faint sewage	0.0	1.8	2.5	2.4	33.3	26.7	14.1	19.2	58.3	2.61	sand/silt	< 6.5	9.0 ± 2.3	9.0	
32	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/1/18	Sunny	16.3	0.5	12.9	3	Dark brown	None	0.0	0.0	2.0	19.2	19.0	55.2	2.6	0.9	1.1	80.1	2.68	sand/gravel	< 5.5	19 ± 2.9	19
						2025/1/29	Sunny	10.1	0.4	8.3	3	Dark olive brown	None	0.0	0.1	9.4	24.1	62.7	2.1	0.8	0.8	78.4	2.66	sand/gravel	< 5.1	28 ± 2.9	28	
33	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/5/29	Sunny	23.6	0.3	20.5	3	Brownish black	None	0.0	0.0	1.3	28.3	31.1	21.9	17.4	18.0	2.64	silt/sand	< 8.6	76 ± 5.9	76		
						2024/8/5	Sunny	34.0	0.3	26.8	4	Olive brown	Faint sewage	0.0	0.0	0.0	0.8	31.4	28.9	19.5	19.4	54.0	2.61	silt/sand	< 8.9	66 ± 5.9	66	
34	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/1/18	Sunny	16.6	0.2	12.2	3	Brownish black	None	0.0	0.0	0.0	1.5	56.4	29.2	7.9	14.0	60.6	2.67	sand/silt	< 7.4	32 ± 4.2	32	
						2025/1/29	Sunny	10.6	0.1	9.2	3	Olive brown	None	0.0	0.0	0.3	2.6	71.8	14.3	4.5	6.5	64.6	2.66	sand	< 6.4	35 ± 3.7	35	
35	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/5/29	Sunny	23.4	0.1	24.6	2	Brownish black	None	0.0	0.3	23.8	32.3	38.9	3.5	0.5	0.7	80.1	2.68	gravel/sand	< 7.5	46 ± 4.7	46	
						2024/8/5	Sunny	31.9	0.1	32.2	1	Olive black	Faint swamp	0.0	0.0	6.7	16.5	58.0	15.9	1.7	1.2	79.9	2.68	sand	< 5.6	53 ± 4.6	53	
36	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/1/18	Sunny	16.3	0.1	11.0	3	Dark brown	None	0.0	0.2	18.7	22.5	52.7	4.9	0.5	0.5	78.4	2.71	sand/gravel	< 7.4	50 ± 4.6	50	
						2025/1/29	Sunny	11.2	0.1	7.6	3	Olive black	None	0.0	0.0	12.0	22.3	54.7	9.6	0.9	0.5	80.0	2.70	sand/gravel	< 7.8	62 ± 5.7	62	
37	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/5/28	Cloudy	18.4	0.8	21.3	3	Brownish black	Faint ditch	0.0	0.0	0.0	4.0	15.9	31.6	23.5	25.0	51.1	2.64	silt/sand	< 6.0	73 ± 4.7	73	
						2024/8/2	Sunny	32.8	0.8	26.2	3	Brownish black	None	0.0	0.4	8.3	7.8	31.0	27.0	12.5	13.0	63.7	2.71	silt/sand	< 3.5	38 ± 3.0	38	
38	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/1/18	Sunny	13.3	0.6	13.4	3	Dark brown	None	0.0	0.0	0.0	1.6	5.4	53.8	16.5	22.7	52.2	2.66	silt/sand	< 8.9	45 ± 5.4	45	
						2025/1/28	Sunny	11.8	0.6	9.7	3	Brownish black	Faint sewage	0.0	0.0	0.4	0.3	4.8	70.3	8.1	16.1	62.0	2.66	silt/sand	< 4.6	56 ± 2.7	56	
39	Nakagawa River System	Himnagawa River Area	Tomoe River	Shintomoegawa Bridge	Hokota City	2024/5/28	Sunny	21.3	0.7	21.6	3	Olive black	Faint ditch	0.0	0.1	12.5	29.6	46.6	8.1	1.3	1.8	73.2	2.66	sand/gravel	< 9.1	170 ± 9.0	170	
						2024/8/2	Sunny	32.8	0.3	29.6	3	Brownish black	Faint sewage	0.0	0.0	0.9	4.1	89.5	5.1	0.2	0.2	81.0	2.68	sand	< 7.4	160 ± 7.7	160	
40																												

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Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment temperature (°C)	Sediment														Activity concentration [Bq/kg(dry)]			Remarks
No.	Water Area	Location	Municipality						Sample length (cm)	Color	Odor	Grain size distribution(%)							Sediment content (%)	Density (Mg/m³)	Property	Radioactive cesium				
												Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt				clay	Cs-134	Cs-137	Total	
33	Sakai River	Sakai Bridge/ National Route 354	Tauchiura City	2024/5/29	Sunny	18.9	0.4	22.1	3	Dark brown	Faint ditch	0.0	0.0	8.6	21.8	65.5	3.6	0.2	0.3	78.9	2.67	sand/gravel	< 5.8	120 ± 5.6	120	
				2024/8/2	Sunny	32.7	0.2	26.2	3	Black	Faint swamp	0.0	0.3	15.7	30.0	51.1	2.4	0.2	0.3	82.7	2.71	sand/gravel	< 5.2	92 ± 5.4	92	
				2024/1/17	Sunny	8.5	0.4	13.1	2	Grayish yellow brown	None	0.0	0.9	32.3	35.3	29.5	1.3	0.4	0.3	81.6	2.70	gravel/sand	< 7.5	97 ± 6.9	97	
34	Shinkawa River	Shinten Bridge	Tauchiura City	2025/2/4	Sunny	11.0	1.0	13.0	3	Olive black	Faint swamp	0.0	2.3	58.4	24.3	13.6	0.8	0.3	0.3	85.7	2.69	gravel/sand	< 7.8	69 ± 5.8	69	
				2024/5/29	Sunny	22.5	1.5	22.9	3	Olive black	Faint ditch	0.0	0.0	0.0	0.1	0.4	1.3	49.3	48.9	22.2	2.41	silt	< 9.3	300 ± 8.5	300	
				2024/8/2	Sunny	33.9	1.3	29.1	3	Olive black	Faint sewage	0.0	0.0	0.0	0.2	0.4	1.3	62.0	36.1	22.1	2.44	silt	< 9.2	310 ± 9.0	310	
35	Sakura River	Eiri Bridge	Tauchiura City/ Tsukuba City	2024/1/17	Sunny	8.6	1.2	13.2	4	Brownish black	None	0.0	0.0	0.0	0.1	0.4	1.4	36.0	62.1	21.5	2.45	silt	< 9.7	290 ± 9.5	290	
				2025/2/4	Sunny	12.0	1.6	9.0	4	Olive black	Faint sewage	0.0	0.0	0.0	0.1	0.3	1.0	36.5	62.1	20.0	2.44	silt	< 9.8	290 ± 8.8	290	
				2024/5/30	Cloudy	23.5	0.6	22.8	3	Grayish yellow brown	None	0.0	3.3	17.3	13.2	32.1	29.7	1.7	2.7	76.0	2.68	sand/gravel	< 3.2	3.7 ± 1.0	3.7	
36	Bizen River	Bizengawa Bridge	Tauchiura City	2024/8/2	Sunny	31.4	0.8	28.5	3	Brownish black	Faint swamp	0.0	0.8	13.9	9.0	26.4	33.7	4.2	12.0	73.1	2.69	sand/gravel	< 1.1	6.7 ± 0.46	6.7	
				2024/1/17	Sunny	12.0	0.6	13.1	3	Olive brown	Faint swamp	0.0	0.0	0.1	0.1	7.2	70.7	11.6	10.3	63.8	2.70	sand	< 9.6	17 ± 3.3	17	
				2025/2/4	Sunny	9.0	0.8	9.3	3	Grayish yellow brown	Faint swamp	0.0	0.0	0.5	0.8	11.2	56.2	18.5	12.8	63.0	2.69	sand	< 8.6	28 ± 3.7	28	
37	Hamamuro River	Shinwa Bridge	Tauchiura City	2024/5/29	Sunny	23.4	0.6	24.1	3	Olive black	Faint ditch	0.0	0.0	0.1	0.6	46.6	47.9	2.4	2.4	67.8	2.66	sand/silt	9.9 ± 2.0	530 ± 11	539.9	
				2024/8/2	Sunny	28.6	0.9	28.5	3	Olive black	Faint swamp	0.0	0.2	0.6	1.2	76.7	17.2	2.2	1.9	69.1	2.69	sand	10 ± 2.4	440 ± 15	450	
				2024/1/17	Sunny	12.2	0.6	14.8	4	Brownish black	Faint ditch	0.0	0.1	0.6	1.3	62.4	24.8	5.5	5.3	67.7	2.72	silt/sand	< 9.1	490 ± 14	490	
38	Seimei River	Katsushashi Bridge	Ami Town	2025/2/4	Sunny	11.0	1.0	9.0	3	Olive black	Faint swamp	0.0	0.0	1.1	3.2	74.5	18.1	2.3	0.8	72.2	2.69	sand/gravel	< 9.2	460 ± 13	460	
				2024/5/29	Sunny	24.7	0.3	25.6	3	Black	Faint phytoplankton	0.0	1.1	37.5	40.8	18.5	1.7	0.2	0.2	82.2	2.66	gravel/sand	< 7.9	95 ± 6.2	95	
				2024/8/2	Sunny	27.0	0.2	25.9	3	Brownish black	Faint swamp	0.0	3.8	47.4	18.9	24.7	4.7	0.2	0.3	83.1	2.72	sand/gravel	< 6.1	79 ± 5.3	79	
39	Onogawa River	Okuhara-obashi Bridge	Ryugasaki City/ Utsuki City	2024/1/17	Sunny	13.9	0.4	14.0	3	Black	None	0.0	0.1	15.0	31.2	53.4	1.7	0.4	0.2	79.6	2.72	gravel/sand	< 8.8	98 ± 7.3	98	
				2025/2/4	Sunny	9.0	0.2	10.6	3	Black	Faint swamp	0.0	0.1	16.3	22.1	45.7	14.4	0.9	0.5	78.0	2.73	sand/gravel	< 8.1	90 ± 7.1	90	
				2024/5/30	Sunny	23.8	0.7	20.9	3	Brownish black	None	0.0	0.1	5.5	16.8	62.9	11.2	1.7	1.8	74.4	2.70	sand/gravel	8.3 ± 1.9	250 ± 10	258.3	
40	Shintone River	Shintone Bridge	Inashiki City	2024/8/2	Sunny	24.5	0.6	26.8	3	Black	Faint swamp	0.0	0.2	5.6	8.9	52.0	25.5	5.5	2.3	69.3	2.73	sand	< 8.1	290 ± 12	290	
				2024/1/17	Sunny	14.2	0.6	13.3	3	Brownish black	Faint swamp	0.0	0.0	1.2	4.8	45.1	38.4	5.6	4.9	62.6	2.73	sand	< 9.6	320 ± 13	320	
				2025/2/6	Sunny	3.0	0.6	3.8	3	Brownish black	Faint swamp	0.0	0.3	14.7	26.3	49.4	5.9	2.3	1.1	74.4	2.73	sand/gravel	< 9.5	220 ± 11	220	
41	Yorokoshi River	Horinouchi Bridge	Itako City	2024/5/30	Sunny	23.9	0.5	22.5	3	Olive black	Faint sewage	0.0	0.0	0.0	0.7	42.1	39.4	7.1	10.7	58.6	2.63	sand	< 9.0	180 ± 10	180	
				2024/8/5	Sunny	29.3	0.7	29.3	3	Dark olive brown	Faint swamp	0.0	0.0	0.3	58.5	28.9	5.1	7.2	70.5	2.70	sand/gravel	< 7.2	130 ± 6.8	130		
				2024/1/17	Sunny	15.4	0.6	13.8	3	Brownish black	None	0.0	0.0	0.1	0.6	56.5	32.1	4.9	5.8	65.1	2.71	sand	< 8.8	180 ± 11	180	
42	Maekawa River	Ayame Bridge	Chikusei City	2025/2/5	Sunny	6.0	0.7	6.8	3	Dark olive brown	Faint swamp	0.0	0.0	0.1	0.9	44.9	46.7	3.6	3.8	69.0	2.69	sand/silt	< 9.9	130 ± 7.9	130	
				2024/5/29	Sunny	24.1	1.4	24.6	3	Olive black	None	0.0	0.0	1.1	3.6	44.2	44.9	2.4	3.8	72.0	2.69	sand/silt	< 7.7	70 ± 5.5	70	
				2024/8/5	Sunny	37.2	1.5	34.8	3	Olive black	Faint sewage	0.0	0.0	0.7	1.9	37.0	40.0	7.1	13.3	62.0	2.70	silt	< 6.8	65 ± 6.3	65	
43	Kinugawa River	Kawashima Bridge	Moriya City	2024/1/18	Sunny	11.9	1.6	13.9	3	Brownish black	Faint ditch	0.0	0.0	0.0	6.0	43.6	38.6	6.7	5.1	65.0	2.74	silt/sand	< 8.5	47 ± 5.2	47	
				2025/2/5	Sunny	9.0	1.5	6.9	3	Olive black	Faint sewage	0.0	0.1	1.8	4.4	46.3	42.9	2.2	2.3	74.3	2.73	sand/silt	< 7.8	53 ± 5.6	53	
				2024/5/29	Sunny	25.8	0.9	20.9	3	Grayish olive	Faint hydrogen sulfide	0.0	0.0	0.0	3.7	22.4	19.9	27.4	36.6	31.1	2.56	silt	< 7.6	65 ± 4.6	65	
44	Tagawa River	Takishta Bridge	Moriya City	2024/8/2	Sunny	31.9	0.5	26.1	4	Olive black	Faint swamp	0.0	0.0	0.4	1.8	33.2	19.6	22.5	22.5	43.3	2.65	silt	< 9.5	53 ± 4.0	53	
				2024/1/18	Sunny	14.5	0.4	11.5	4	Olive black	Faint swamp	0.0	0.0	0.0	1.9	24.0	15.0	28.6	30.5	32.8	2.59	silt	< 9.5	71 ± 5.8	71	
				2025/2/5	Sunny	9.0	0.6	8.0	3	Olive black	Faint swamp	0.0	0.0	0.0	1.4	23.5	22.9	15.2	37.0	33.1	2.62	silt	< 9.3	76 ± 5.9	76	
45	Tagawa River	Tagawa Bridge	Chikusei City	2024/5/29	Sunny	25.5	2.2	22.4	3	Olive black	None	0.0	0.0	0.0	0.8	11.8	45.1	17.0	25.3	45.7	2.60	silt	< 8.7	130 ± 7.1	130	
				2024/8/3	Sunny	31.6	2.5	31.2	4	Olive black	Faint sewage	0.0	0.0	0.2	27.0	49.1	7.5	16.2	59.4	2.70	silt/sand	< 8.3	81 ± 5.9	81		
				2024/1/18	Sunny	15.3	2.2	14.3	3	Brownish black	None	0.0	0.0	0.0	0.6	24.9	55.8	6.5	12.2	62.3	2.71	silt/sand	< 7.6	71 ± 6.3	71	
46	Kokai River	Kuroko Bridge	Toride City	2025/2/5	Sunny	8.3	2.2	8.3	4	Olive black	Faint sewage	0.0	0.0	0.0	0.9	13.1	41.4	15.2	29.4	45.9	2.66	silt/sand	< 8.0	130 ± 7.8	130	
				2024/5/10	Sunny	23.6	0.3	16.6	2	Dark grayish yellow	Faint fish	0.0	1.2	25.3	13.9	43.7	15.3	0.2	0.4	82.1	2.71	sand/gravel	< 4.2	4.5 ± 1.4	4.5	
				2024/8/3	Sunny	34.2	0.3	28.2	3	Dark brown	Faint swamp	0.0	0.4	11.6	15.0	56.8	14.6	0.6	1.0	81.5	2.73	sand/gravel	< 2.2	3.6 ± 0.87	3.6	
47	Yatagawa River	Maruyama Bridge	Tsukuba City	2024/1/20	Cloudy	6.1	0.3	9.8	3	Dull yellow brown	None	0.0	0.5	14.0	13.9	48.8	19.5	1.8	1.5	79.3	2.73	sand/gravel	< 5.2	8.6 ± 1.8	8.6	
				2025/2/6	Sunny	5.0	0.5	7.1	3	Brownish black	Faint swamp	0.0	0.1	1.5	1.7	50.6	42.9	2.3	0.9	73.5	2.76	sand	< 3.4	4.0 ± 0.87	4.0	
				2024/5/31	Cloudy	16.6	0.4	21.5	3	Brown	None	0.0	0.1	0.5	2.5	50.8	37.8	3.9	4.4	67.2	2.71	sand	< 6.4	15 ± 2.8	15	
48	Yatagawa River	Maruyama Bridge	Tsukuba City	2024/8/5	Sunny	30.5	0.4	29.1	3	Dark olive brown	Faint swamp	0.0	0.0	0.6	2.0	50.7	42.2	1.9	2.6	76.0	2.75	sand	< 5.9	18 ± 3.4	18	
				2024/1/17	Sunny	16.1	0.3	14.2	4	Olive black	Faint sewage	0.0	0.0	0.0	0.3	17.3	46.7	16.6	19.1	53.3	2.72	silt/sand	< 9.2	30 ± 4.9	30	
				2025/2/5	Sunny	6.0	0.5	8.0	3	Brownish black	Faint swamp	0.0	0.0	0.3	1.2	30.7	56.8	4.8	6.2	66.1	2.73	sand/silt	< 8.9	13 ± 3.2	13	
49	Yatagawa River	Maruyama Bridge	Tsukuba City	2024/5/10	Sunny	23.2	0.3	18.6	3	Grayish yellow brown	Faint swamp	0.0	2.3	25.0	21.7	44.2	5.5	0.6	0.7	82.3	2.71	gravel/sand	< 1.0	< 0.96	-	
				2024/8/3	Sunny	33.8	0.2	29.7	3	Brownish black	Faint swamp	0.0	1.0	31.0	23.8	36.6	6.6	0.4	0.6	86.0	2.75	gravel/sand	< 0.92	2.0 ± 0.33	2.0	
				2024/1/20	Cloudy	5.7	0.5	11.6	4	Dark brown	None	0.0	3.1	21.3	24.7	41.3	7.7	1.1	0.8	83.7	2.81</					

Ibaraki River (Sediment) 4/4

No.	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment temperature (°C)	Sediment														Activity concentration [Bq/kg(dry)]			Remarks		
	Water Area	Location	Municipality						Sample length (cm)	Color	Odor	Grain size distribution(%)								Sediment content (%)	Density (Mg/m ³)	Property	Radioactive cesium					
												Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt	clay				Cs-134	Cs-137	Total			
Rivers	Tonogawa River System	Kokunagawa River Area	Nishiyata River	Sakaimatsu Bridge	Taukuba City	2024/5/31	Cloudy	18.6	0.8	21.1	3	Black	Faint sewage	0.0	0.0	0.0	11.0	44.3	19.6	8.0	17.1	53.7	2.61	sand/silt	<	9.0	180 ± 9.2	180
						2024/8/3	Sunny	28.9	0.9	27.1	3	Brownish black	Faint swamp	0.0	0.0	0.2	11.0	65.2	6.8	7.6	9.2	62.0	2.64	sand/silt	<	8.9	50 ± 5.2	50
						2024/11/7	Sunny	15.6	0.8	14.9	3	Brownish black	None	0.0	0.0	13.7	22.6	34.4	4.1	9.2	16.0	37.1	2.60	silt/sand	<	9.3	33 ± 3.8	33
						2025/2/6	Sunny	10.0	0.3	8.3	3	Brownish black	Faint swamp	0.0	0.0	0.7	3.5	40.8	34.1	5.4	15.5	59.9	2.69	sand	<	9.3	170 ± 9.3	170
						2024/9/30	Sunny	24.8	0.7	23.8	3	Black	Faint sewage	0.0	0.1	4.1	13.8	59.9	11.4	5.1	3.6	74.7	2.66	sand	<	8.8	170 ± 9.1	170
						2024/8/5	Sunny	36.3	0.7	33.7	4	Olive black	Faint swamp	0.0	0.0	3.8	11.0	44.1	24.6	8.0	8.5	69.1	2.67	sand	<	7.2	160 ± 9.3	160
		Tonogawa River Area	Inari River	Oguki Bridge	Taukuba City	2024/11/7	Sunny	15.4	0.5	15.1	3	Dark brown	None	0.0	0.1	5.7	22.2	47.9	18.3	3.6	2.2	70.5	2.71	gravel/sand	<	9.3	190 ± 10	190
						2025/2/6	Sunny	8.0	0.8	8.0	3	Olive black	Faint swamp	0.0	0.0	0.0	4.6	48.9	34.0	3.7	8.8	71.1	2.74	sand/silt	<	9.6	130 ± 9.0	130
						2024/5/28	Cloudy	21.2	0.8	18.5	4	Olive black	Faint swamp	0.0	0.0	0.0	0.2	14.0	60.8	12.9	12.1	61.4	2.68	sand	<	7.2	15 ± 2.9	15
						2024/8/3	Sunny	32.4	0.5	27.2	3	Olive black	Faint swamp	0.0	0.0	0.1	16.4	62.3	9.3	11.9	60.1	2.73	silt/sand	<	8.0	17 ± 3.2	17	
						2024/11/20	Light Rain	11.2	0.8	10.0	4	Grayish olive	None	0.0	0.0	0.1	0.0	11.0	76.8	5.8	6.3	68.3	2.81	sand	<	6.1	13 ± 2.9	13
						2025/2/7	Sunny	6.0	0.6	4.5	3	Olive black	Faint swamp	0.0	0.0	3.0	18.8	46.3	24.2	3.4	4.3	75.0	2.78	sand	<	8.9	22 ± 3.6	22
	Tonogawa River	Fukawa	Tone Town	Tone Town	2024/5/30	Sunny	24.1	0.9	23.1	3	Brownish black	Faint sewage	0.0	0.0	0.0	0.5	35.6	50.6	6.4	6.9	67.5	2.73	sand/silt	<	6.1	29 ± 3.9	29	
					2024/8/5	Sunny	30.4	1.0	33.1	3	Olive black	Faint swamp	0.0	0.0	0.5	0.6	11.8	55.6	15.9	15.6	69.1	2.75	silt	<	8.9	29 ± 4.4	29	
					2024/11/7	Sunny	13.6	0.8	13.8	3	Olive black	Faint ditch	0.0	0.0	0.0	0.2	1.3	30.7	37.0	30.8	43.2	2.67	silt/sand	<	8.9	55 ± 4.7	55	
					2025/2/5	Sunny	7.0	1.0	7.7	4	Olive black	Faint swamp	0.0	0.0	0.4	0.9	14.6	62.9	6.8	14.4	62.9	2.74	silt	<	8.0	32 ± 4.2	32	
					2024/5/29	Sunny	21.8	0.3	23.9	2	Brownish black	Faint fish	0.0	0.7	15.3	8.1	14.0	56.8	2.1	3.0	77.1	2.72	sand	<	6.9	16 ± 2.8	16	
					2024/8/5	Sunny	27.6	0.5	30.1	4	Olive black	Faint sewage	0.0	0.8	29.1	9.1	21.3	33.9	2.1	3.7	75.3	2.74	sand/gravel	<	8.1	22 ± 3.8	22	
	Tonogawa River	Sawara	Inashiki City	Inashiki City	2024/11/8	Sunny	9.0	0.2	12.3	3	Brownish black	None	0.0	1.8	24.3	12.2	28.9	29.0	2.1	1.7	76.9	2.75	sand/gravel	<	8.3	22 ± 3.0	22	
					2025/2/5	Sunny	7.0	0.6	8.0	3	Olive black	Faint sewage	0.0	0.2	14.5	8.1	19.7	42.3	7.2	8.0	67.4	2.69	silt/sand	<	8.3	24 ± 3.8	24	

Ibaraki River (SE) 1/2

No.	Location			Sampling Date	Weather	Air temperature (°C)	Surrounding Environment (Soil/Air dose)											Remarks			
	Water Area	Location	Municipality				Left bank			Right bank			Left bank			Right bank					
							Color	Odor	Property	Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Activity concentration [Bq/kg(dry)]					
													Radioactive cesium			Radioactive cesium			Air dose (µSv/h)	Air dose (µSv/h)	Air dose (µSv/h)
Cs-134	Cs-137	Total	Cs-134	Cs-137	Total																
1	Tateyama River System	Satone River	Yamagoya Bridge	2024/5/29	Sunny	21.5	Black	Faint earth	loamy	15 ± 3.0	1,100 ± 22	1,115	0.08	Black	Faint earth	Loamy	15 ± 3.6	960 ± 32	1,005	0.07	
			Murayama Bridge	2024/8/1	Sunny	28.1	Black	Faint earth	loamy	12 ± 2.8	750 ± 19	762	0.09	Black	Faint earth	Loamy	16 ± 4.1	460 ± 16	476	0.09	
		Hamazono River	Kitabaraki City	Kurabeishi	2024/5/29	Sunny	22.2	Dark brown	Faint earth	loamy	< 6.2	24 ± 3.6	24	0.06	Dull yellow brown	Faint earth	Loamy	< 9.6	470 ± 14	470	0.06
				Isonare Bridge	2024/8/1	Sunny	29.6	Dull yellow brown	Faint earth	loamy	< 8.8	38 ± 4.3	38	0.05	Dull yellow brown	Faint earth	Loamy	11 ± 2.9	550 ± 18	561	0.04
		Okita River	Takahagi City	Sakai Bridge	2024/5/21	Sunny	18.0	Brownish black	Faint earth	loamy	10 ± 2.0	410 ± 11	420	0.07	Dark brown	Faint earth	Loamy	< 8.5	350 ± 10	350	0.08
				Sakai Bridge	2024/8/1	Sunny	25.0	Brownish black	Faint earth	loamy	< 8.1	120 ± 6.6	120	0.06	Dull yellow brown	Faint earth	Loamy	< 7.7	280 ± 12	280	0.07
		Hananuki River	Takahagi City	Shinhananuki Bridge	2024/5/30	Sunny	19.8	Brownish black	Faint earth	loamy	< 9.0	190 ± 10	190	0.06	Brownish black	Faint earth	Loamy	< 9.4	200 ± 11	200	0.07
				Sakai Bridge	2024/8/1	Sunny	32.6	Dull yellow brown	Faint earth	loamy	< 9.3	140 ± 8.7	140	0.05	Dull yellow brown	Faint earth	Sandy	< 9.4	200 ± 11	200	0.07
		Hananuki River	Takahagi City	Sakai Bridge	2024/5/21	Sunny	22.0	Dull yellow brown	Faint earth	loamy	< 7.7	63 ± 5.7	63	0.05	Brownish black	Faint earth	Loamy	< 9.5	300 ± 11	300	0.05
				Sakai Bridge	2024/8/1	Sunny	27.7	Dull yellow brown	Faint earth	loamy	< 9.6	84 ± 7.3	84	0.05	Brownish black	Faint earth	Loamy	< 8.8	300 ± 10	300	0.06
Hananuki River	Takahagi City	Sakai Bridge	2024/5/30	Sunny	23.6	Brownish black	Faint earth	loamy	< 8.9	210 ± 10	210	0.07	Brownish black	Faint earth	Loamy	16 ± 3.8	460 ± 18	476	0.07		
		Sakai Bridge	2024/8/1	Sunny	31.5	Brownish black	Faint earth	loamy	< 8.4	290 ± 13	290	0.07	Brownish black	Faint earth	Loamy	< 6.6	390 ± 10	390	0.07		
Hananuki River	Takahagi City	Sakai Bridge	2024/5/30	Sunny	24.5	Dark brown	Faint earth	loamy	< 6.7	190 ± 7.8	190	0.05	Dark brown	Faint earth	Loamy	< 9.0	360 ± 12	360	0.07		
		Sakai Bridge	2024/8/1	Sunny	31.6	Brownish black	Faint earth	loamy	< 5.4	180 ± 6.0	180	0.05	Brownish black	Faint earth	Loamy	< 6.1	230 ± 6.9	230	0.05		
Kujigawa River	Hitachiomiya City	Iwai Bridge	2024/5/14	Sunny	22.1	Dark brown	Faint earth	loamy	< 6.1	< 6.3	-	0.10	Brown	Faint earth	Sandy	< 8.5	55 ± 5.4	55	0.07		
		Iwai Bridge	2024/8/1	Sunny	28.6	Dull yellow orange	Faint earth	sandy	< 3.1	8.0 ± 1.1	8.0	0.09	Dark brown	Faint earth	Loamy	< 4.7	31 ± 2.6	31	0.08		
Kujigawa River	Hitachi City/ Tokai Village	Sakaki Bridge	2024/5/15	Sunny	20.5	Dark brown	Faint earth	loamy	< 9.4	160 ± 8.8	160	0.07	Dark brown	Faint earth	Loamy	< 9.3	150 ± 8.8	150	0.07		
		Sakaki Bridge	2024/8/1	Sunny	29.1	Brownish black	Faint earth	loamy	< 8.9	110 ± 7.3	110	0.06	Dull yellow brown	Faint earth	Loamy	< 7.0	130 ± 8.0	130	0.05		
Nakagawa River	Hitachiomiya City/ Shiroato Town	Nakagawa-ohashi Bridge	2024/5/14	Sunny	16.9	Dark brown	Faint earth	loamy	< 7.8	160 ± 8.2	160	0.06	Dark brown	Faint earth	Loamy	< 7.1	53 ± 5.3	53	0.06		
		Nakagawa River	2024/8/1	Sunny	30.1	Dull yellow brown	Faint earth	loamy	< 7.3	62 ± 5.7	62	0.05	Dark brown	Faint earth	Loamy	< 5.0	14 ± 2.7	14	0.05		
Nakagawa River	Mito City	Shimokuni	2024/5/15	Sunny	23.1	Dark brown	Faint earth	loamy	< 9.3	71 ± 6.7	71	0.05	Dark brown	Faint earth	Loamy	< 8.7	160 ± 8.5	160	0.06		
		Nakagawa River	2024/8/1	Sunny	30.5	Brownish black	Faint earth	loamy	10 ± 2.4	580 ± 16	590	0.06	Dark brown	Faint earth	Loamy	< 9.3	180 ± 9.2	180	0.06		
Nakagawa River	Mito City/ Hitachinaka City	Katsuta Bridge	2024/5/15	Sunny	21.7	Dark brown	Faint earth	loamy	< 7.4	190 ± 10	190	0.06	Dark brown	Faint earth	Loamy	< 7.5	50 ± 4.9	50	0.06		
		Nakagawa River	2024/8/2	Sunny	30.1	Brownish black	Faint earth	loamy	< 9.7	28 ± 4.0	28	0.05	Dull yellow brown	Faint earth	Sandy	< 7.1	56 ± 5.2	56	0.06		
Nakamaru River	Hitachinaka City	Yanagisawa Bridge	2024/5/16	Light Rain	19.9	Grayish brown	Faint earth	loamy	< 8.9	250 ± 12	250	0.06	Brownish black	Faint earth	Loamy	< 7.3	61 ± 4.9	61	0.06		
		Nakamaru River	2024/8/2	Sunny	31.6	Dull yellow brown	Faint earth	loamy	< 6.9	79 ± 6.1	79	0.06	Dull yellow brown	Faint earth	Loamy	< 7.9	88 ± 6.5	88	0.05		
Hinumamae River	Nagaoka Bridge	Hinumamae River	2024/5/17	Sunny	29.2	Dark brown	Faint earth	loamy	< 7.8	9.7 ± 3.2	9.7	0.06	Very dark brown	Faint earth	Loamy	< 9.0	150 ± 8.8	150	0.06		
		Hinumamae River	2024/8/2	Sunny	33.3	Dull yellow brown	Faint earth	loamy	< 7.5	< 8.0	-	0.07	Dark brown	Faint earth	Loamy	< 8.6	110 ± 6.7	110	0.07		
Hinuma River	Ibaraki Town	Takahashi	2024/5/17	Sunny	26.8	Brownish black	Faint earth	loamy	< 8.0	16 ± 3.0	16	0.06	Dark brown	Faint earth	Loamy	< 9.3	84 ± 5.6	84	0.05		
		Hinumamae River	2024/8/2	Sunny	34.9	Dull yellow brown	Faint earth	loamy	< 7.3	12 ± 2.8	12	0.06	Dull yellow brown	Faint earth	Loamy	< 9.0	56 ± 5.6	56	0.05		
Kansei River	Kansei Bridge	Kansei River	2024/5/17	Sunny	22.1	Brownish black	Faint earth	loamy	< 6.8	140 ± 8.3	140	0.05	Brownish black	Faint earth	Loamy	9.1 ± 2.5	390 ± 12	399.1	0.06		
		Kansei River	2024/8/2	Sunny	32.0	Dull yellow brown	Faint earth	loamy	< 8.0	110 ± 6.4	110	0.06	Grayish yellow brown	Faint earth	Loamy	< 7.4	230 ± 9.7	230	0.06		
Oya River	Hokota City	Oya River	2024/5/16	Cloudy	21.3	-	-	-	-	-	-	0.07	-	-	-	-	-	-	0.07		
		Oya River	2024/8/2	Sunny	30.7	-	-	-	-	-	-	-	0.06	-	-	-	-	-	-	0.06	
Hinuma River	Mito City/ Oarai Town	Hinuma River	2024/5/16	Cloudy	20.5	Brownish black	Faint earth	loamy	< 9.0	460 ± 14	460	0.06	Dark brown	Faint earth	Loamy	13 ± 2.6	660 ± 17	673	0.09		
		Hinuma River	2024/8/2	Sunny	29.6	Dark brown	Faint earth	loamy	9.2 ± 2.0	570 ± 13	579.2	0.07	Dark brown	Faint earth	Loamy	< 9.5	440 ± 16	440	0.08		
Hokota River	Asahi Bridge	Hokota River	2024/5/30	Sunny	26.9	-	-	-	-	-	-	0.08	-	-	-	-	-	-	0.07		
		Hokota River	2024/8/5	Sunny	29.2	-	-	-	-	-	-	-	0.08	-	-	-	-	-	-	0.06	
Tomoe River	Shintomogawa Bridge	Tomoe River	2024/5/30	Sunny	27.7	Dark brown	Faint earth	loamy	< 8.3	73 ± 6.3	73	0.05	Dark brown	Faint earth	Loamy	< 7.4	68 ± 5.4	68	0.06		
		Tomoe River	2024/8/2	Sunny	33.2	Dull yellow brown	Faint earth	loamy	< 5.3	57 ± 4.5	57	0.06	Dark brown	Faint earth	Loamy	< 9.2	89 ± 6.0	89	0.05		
Taiyo River	Tazuka Bridge	Taiyo River	2024/5/30	Sunny	26.4	Dark brown	Faint earth	loamy	< 8.4	190 ± 7.6	190	0.06	Dark brown	Faint earth	Loamy	< 7.5	140 ± 8.0	140	0.06		
		Taiyo River	2024/8/5	Sunny	24.2	Brownish black	Faint earth	loamy	< 6.2	120 ± 8.1	120	0.05	Brownish black	Faint earth	Loamy	< 7.2	160 ± 9.4	160	0.06		
Takeda River	Uchijuku-ohashi Bridge	Takeda River	2024/5/30	Sunny	26.5	Dark brown	Faint earth	loamy	< 6.3	94 ± 7.0	94	0.06	Dark brown	Faint earth	Loamy	< 7.3	160 ± 9.4	160	0.06		
		Takeda River	2024/8/5	Sunny	24.3	Dark brown	Faint earth	loamy	< 8.5	29 ± 4.1	29	0.06	Dull yellow brown	Faint earth	Loamy	< 8.1	54 ± 5.3	54	0.06		
Yamada River	Nioroshi Bridge	Yamada River	2024/5/30	Sunny	28.1	Dark brown	Faint earth	loamy	< 7.9	200 ± 9.2	200	0.07	Dark brown	Faint earth	Loamy	< 7.4	250 ± 8.2	250	0.06		
		Yamada River	2024/8/5	Sunny	33.9	Dark brown	Faint earth	loamy	7.7 ± 1.8	320 ± 11	327.7	0.05	Dark brown	Faint earth	Loamy	< 8.0	340 ± 12	340	0.05		
Kurakawa River	Namegata City	Kurakawa River	2024/5/29	Sunny	23.4	Dark brown	Faint earth	loamy	< 7.8	110 ± 7.4	110	0.06	Dark brown	Faint earth	Loamy	< 9.5	310 ± 14	310	0.06		
		Kurakawa River	2024/8/5	Sunny	32.0	Brownish black	Faint earth	loamy	< 6.2	240 ± 9.4	240	0.06	Brownish black	Faint earth	Loamy	9.0 ± 2.5	290 ± 11	290.0	0.06		
Gantsu River	JA Yokohashi Bridge	Gantsu River	2024/5/29	Sunny	23.6	Dark brown	Faint earth	loamy	< 9.7	470 ± 14	470	0.06	Dark brown	Faint earth	Loamy	< 9.1	170 ± 9.9	170	0.06		
		Gantsu River	2024/8/3	Sunny	34.0	Brownish black	Faint earth	loamy	8.5 ± 2.2	370 ± 14	378.5	0.06	Dark brown	Faint earth	Loamy	< 8.1	270 ± 12	270	0.05		
Nagare River	Kashima City	Nagare River	2024/5/29	Sunny	23.4	-	-	-	-	-	-	0.07	-	-	-	-	-	-	0.06		
		Nagare River	2024/8/3	Sunny	31.9	-	-	-	-	-	-	-	0.06	-	-	-	-	-	-	0.06	
Sonohe River	Omitama City	Sonohe River	2024/5/28	Cloudy	18.4	Dark brown	Faint earth	loamy	< 7.8	100 ± 7.6	100	0.05	Brownish black	Faint earth	Clay-loamy	< 9.5	330 ± 12	330	0.06		
		Sonohe River	2024/8/2	Sunny	32.8	Dull yellow brown	Faint earth	loamy	< 9.3	100 ± 5.5	100	0.06	Brownish black	Faint earth	Clay-loamy	< 9.1	400 ± 11	400	0.06		
Sanno River	Tokoro Bridge	Sanno River	2024/5/28	Sunny	21.3	Dull yellow brown	Faint earth	loamy	9.9 ± 2.5	500 ± 17	509.9	0.07	Dull yellow brown	Faint earth	Loamy	< 9.0	330 ± 14	330	0.07		
		Sanno River	2024/8/2	Sunny	32.8	Dull yellow brown	Faint earth	loamy	19 ± 4.0	1,500 ± 30	1,519	0.06	Dull yellow brown	Faint earth	Loamy	11 ± 2.6	670 ± 19	681	0.08		

Ibaraki River(SE) 2/2

No.	Location			Sampling Date	Weather	Air temperature (°C)	Surrounding Environment(Soil/Air dose)											Remarks							
	Water Area	Location	Municipality				Left bank			Right bank			Activity concentration [Bq/kg(dry)]			Air dose (μSv/h)	Activity concentration [Bq/kg(dry)]			Air dose (μSv/h)					
							Color	Odor	Property	Color	Odor	Property	Radioactive cesium				Color		Odor		Property	Radioactive cesium			
													Cs-134	Cs-137	Total							Cs-134	Cs-137	Total	
R i v e r s	Tonegawa River System	Kasumigaura River Area	Koise River	Heiwa Bridge	Ishioka City	2024/5/28	Cloudy	20.9	Dark brown	Faint earth	loamy	< 9.4	19 ± 2.4	480 ± 14	490	0.07	Brownish black	Faint earth	Loamy	< 21 ± 3.9	920 ± 24	973	0.07		
							2024/8/2	Sunny	32.6	Brown	Faint earth	loamy	< 8.0	210 ± 11	210	0.07	Dull yellow brown	Faint earth	Loamy	< 11 ± 2.1	140 ± 15	723	0.07		
							2024/5/30	Sunny	26.6	Dark brown	Faint earth	loamy	< 8.6	190 ± 8.7	190	0.06	Dark brown	Faint earth	Loamy	< 6.9	160 ± 8.5	180	0.05		
			Kajimashi River	Kamishuku Bridge	Namegata City			2024/8/5	Sunny	27.1	Dark brown	Faint earth	loamy	< 7.6	160 ± 8.7	160	0.05	Brownish black	Faint earth	Loamy	< 7.2	140 ± 7.4	140	0.05	
									2024/5/30	Sunny	25.9	Dark brown	Faint earth	loamy	< 8.4	270 ± 11	270	0.06	Dark brown	Faint earth	Loamy	< 9.2	330 ± 11	330	0.06
									2024/8/5	Sunny	29.8	Dull yellow brown	Faint earth	loamy	< 7.9	140 ± 7.0	140	0.06	Dark brown	Faint earth	Loamy	< 7.1	210 ± 9.0	210	0.06
			Hishiki River	Hishiki Bridge	Kasumigaura City			2024/5/30	Sunny	27.8	Dark brown	Faint earth	loamy	< 8.0	150 ± 7.2	150	0.06	Dark brown	Faint earth	Loamy	< 8.6	210 ± 9.4	210	0.06	
									2024/8/5	Sunny	31.6	Dark brown	Faint earth	loamy	< 8.0	78 ± 6.1	78	0.05	Dark brown	Faint earth	Loamy	< 6.5	83 ± 6.4	83	0.06
									2024/5/29	Sunny	18.9	Brownish black	Faint earth	loamy	< 8.7 ± 2.1	550 ± 13	553.7	0.07	Dark brown	Faint earth	Loamy	< 8.1	270 ± 12	270	0.08
			Sakai River	Sakai Bridge/ National Route 354	Tsuchiura City			2024/8/2	Sunny	32.7	Dull yellow brown	Faint earth	loamy	< 8.1	270 ± 12	270	0.06	Dark brown	Faint earth	Loamy	< 7.5	180 ± 8.3	180	0.06	
									2024/5/29	Sunny	22.5	Dark brown	Faint earth	loamy	< 9.6	580 ± 14	580	0.07	Dark brown	Faint earth	Loamy	< 11 ± 2.4	600 ± 17	611	0.06
									2024/8/2	Sunny	33.9	Dark brown	Faint earth	loamy	< 9.1	500 ± 15	500	0.06	Dark brown	Faint earth	Loamy	< 8.1	580 ± 14	580	0.07
			Shinkawa River	Shinten Bridge	Tsuchiura City/ Tsukuba City			2024/5/30	Cloudy	23.5	Dark brown	Faint earth	loamy	< 7.8	76 ± 6.4	76	0.06	Brownish black	Faint earth	Loamy	< 9.1	89 ± 7.4	89	0.07	
									2024/8/2	Sunny	31.4	Brownish black	Faint earth	loamy	< 7.8	67 ± 5.2	67	0.04	Brownish black	Faint earth	Loamy	< 9.6	76 ± 6.5	76	0.07
									2024/5/29	Sunny	23.4	Dark brown	Faint earth	loamy	< 9.4	430 ± 15	430	0.07	Brownish black	Faint earth	Loamy	< 8.9	330 ± 12	330	0.07
		Sakura River	Eiri Bridge	Tsuchiura City/ Tsukuba City			2024/8/2	Sunny	28.6	Dull yellow brown	Faint earth	loamy	< 9.4 ± 2.2	420 ± 10	423.4	0.09	Dull yellow brown	Faint earth	Loamy	< 8.3	320 ± 11	320	0.09		
								2024/5/29	Sunny	24.7	Brownish black	Faint earth	loamy	< 11 ± 2.9	620 ± 18	634	0.08	Brownish black	Faint earth	Loamy	< 10 ± 2.3	610 ± 15	629	0.08	
								2024/8/2	Sunny	27.0	Dark brown	Faint earth	loamy	< 12 ± 3.0	700 ± 14	712	0.09	Dull yellow brown	Faint earth	Loamy	< 8.4	520 ± 12	520	0.09	
		Bizen River	Bizengawa Bridge	Ami Town			2024/5/30	Sunny	23.8	Brown	Faint earth	loamy	< 9.8 ± 2.2	590 ± 15	596.8	0.07	Dark brown	Faint earth	Loamy	< 13 ± 2.7	910 ± 20	923	0.07		
								2024/8/2	Sunny	24.5	Dark brown	Faint earth	loamy	< 6.9	390 ± 11	390	0.07	Dark brown	Faint earth	Loamy	< 8.7 ± 1.9	570 ± 9.4	578.7	0.07	
								2024/5/30	Sunny	23.9	Dull yellow brown	Faint earth	loamy	< 9.7	160 ± 9.9	160	0.07	Dark brown	Faint earth	Loamy	< 9.1	130 ± 8.3	130	0.07	
		Onogawa River	Okuhara-obashi Bridge	Ryugasaki City/ Utsukiyama City			2024/8/5	Sunny	29.3	Brownish gray	Faint earth	loamy	< 9.0	65 ± 5.8	65	0.07	Grayish yellow brown	Faint earth	Loamy	< 6.8	72 ± 5.8	72	0.07		
								2024/5/29	Sunny	24.1	Brownish black	Faint earth	loamy	< 8.7	350 ± 13	350	0.06	Dark brown	Faint earth	Loamy	< 8.3	43 ± 4.6	43	0.05	
								2024/8/5	Sunny	37.2	Brownish black	Faint earth	sandy	< 7.2	100 ± 6.8	100	0.07	Dull yellow brown	Faint earth	Loamy	< 6.2	22 ± 3.2	22	0.05	
		Shintone River	Shintone Bridge	Inashiki City			2024/5/29	Sunny	25.8	Dark brown	Faint earth	loamy	< 7.5	160 ± 8.0	160	0.06	Dark brown	Faint earth	Loamy	< 8.1	75 ± 6.0	75	0.06		
								2024/8/3	Sunny	31.9	Dull yellow brown	Faint earth	loamy	< 8.6	120 ± 7.4	120	0.06	Brownish black	Faint earth	Loamy	< 7.5	68 ± 5.0	68	0.06	
								2024/5/29	Sunny	25.5	Dark brown	Faint earth	loamy	< 7.4	61 ± 5.3	61	0.04	Dark brown	Faint earth	Loamy	< 7.7	73 ± 5.8	73	0.05	
		Maekawa River	Ayame Bridge	Itako City			2024/8/3	Sunny	31.6	Dark brown	Faint earth	loamy	< 8.0	41 ± 4.5	41	0.05	Brown	Faint earth	Sandy	< 6.5	87 ± 5.9	87	0.05		
								2024/5/10	Sunny	23.6	Brownish black	Faint earth	loamy	< 7.8	26 ± 3.7	26	0.06	Dark brown	Faint earth	Loamy	< 7.6	44 ± 4.1	44	0.06	
								2024/8/3	Sunny	34.2	Brownish black	Faint earth	loamy	< 6.7	12 ± 2.6	12	0.06	Dull yellow brown	Faint earth	Loamy	< 8.3	39 ± 4.7	39	0.06	
		Kinugawa River	Takeshita Bridge	Moriya City			2024/5/31	Cloudy	16.6	Brownish black	Faint earth	loamy	< 8.7	330 ± 12	330	0.06	Dull yellow brown	Faint earth	Sandy	< 4.9	7.0	7.0	0.06		
								2024/8/3	Sunny	30.5	Dark brown	Faint earth	loamy	< 7.5	88 ± 6.8	88	0.06	Grayish yellow brown	Faint earth	Sandy	< 6.3	12 ± 2.3	12	0.07	
								2024/5/10	Sunny	23.2	Dark brown	Faint earth	loamy	< 7.8	49 ± 5.4	49	0.06	Dark brown	Faint earth	Loamy	< 6.1	68 ± 5.5	68	0.06	
Tagawa River	Tagawa Bridge	Chikusei City			2024/8/3	Sunny	33.8	Dull yellow brown	Faint earth	loamy	< 7.7	9.1 ± 2.2	9.1	0.06	Brown	Faint earth	Loamy	< 6.8	60 ± 4.8	60	0.07				
						2024/5/10	Sunny	24.1	Brownish black	Faint earth	loamy	< 9.2	82 ± 5.2	82	0.06	Brown	Faint earth	Loamy	< 5.1	67 ± 4.5	67	0.06			
						2024/8/3	Sunny	34.6	Dark brown	Faint earth	loamy	< 9.3	150 ± 7.8	150	0.06	Dull yellow brown	Faint earth	Loamy	< 9.2	60 ± 6.0	60	0.06			
Kokai River	Fumimaki Bridge	Toride City			2024/5/30	Sunny	25.8	Dark brown	Faint earth	loamy	< 7.6	35 ± 4.3	35	0.07	Dull yellow brown	Faint earth	Loamy	< 9.0	140 ± 8.2	140	0.07				
						2024/8/5	Sunny	36.8	Dull yellow brown	Faint earth	loamy	< 8.8	31 ± 4.4	31	0.06	Dull yellow brown	Faint earth	Loamy	< 7.1	180 ± 8.8	180	0.07			
						2024/5/31	Light Rain	17.3	Dark brown	Faint earth	loamy	< 8.5	290 ± 10	290	0.07	Brownish black	Faint earth	Loamy	< 7.2	370 ± 12	370	0.07			
Yatagawa River	Maruyama Bridge	Tsukuba City			2024/8/3	Sunny	27.3	Dark brown	Faint earth	loamy	< 8.6	430 ± 12	430	0.07	Dull yellow brown	Faint earth	Loamy	< 8.6	340 ± 14	340	0.07				
						2024/5/31	Cloudy	18.6	Brownish black	Faint earth	loamy	< 8.0	18 ± 3.0	18	0.06	Black	Faint earth	Loamy	< 7.5	64 ± 5.7	64	0.05			
						2024/8/3	Sunny	28.9	Dark brown	Faint earth	loamy	< 8.3	33 ± 3.7	33	0.05	Dull yellow brown	Faint earth	Loamy	< 8.3	37 ± 4.4	37	0.06			
Inari River	Ogaki Bridge	Tsukuba City			2024/5/30	Sunny	24.8	Grayish yellow brown	Faint earth	loamy	< 10 ± 2.6	610 ± 15	620	0.06	Dark brown	Faint earth	Loamy	< 14 ± 3.1	580 ± 18	594	0.09				
						2024/8/5	Sunny	36.3	Dark brown	Faint earth	loamy	< 7.7	380 ± 11	380	0.06	Dark brown	Faint earth	Loamy	< 9.1	520 ± 12	520	0.09			
						2024/5/28	Cloudy	21.2	Dark brown	Faint earth	loamy	< 8.0	< 8.4	8.0	0.06	Dark brown	Faint earth	Loamy	< 8.0	46 ± 4.5	46	0.05			
Tonegawa River	Fukawa	Tone Town			2024/8/3	Sunny	32.4	Dark brown	Faint earth	loamy	< 7.6	11 ± 2.4	11	0.06	Dull yellow brown	Faint earth	Loamy	< 8.6	53 ± 5.5	53	0.06				
						2024/5/30	Sunny	24.1	Dark brown	Faint earth	loamy	< 8.2	220 ± 12	220	0.07	Dark brown	Faint earth	Loamy	< 7.6	190 ± 11	190	0.06			
						2024/8/5	Sunny	30.4	Dull yellow brown	Faint earth	loamy	< 6.4	94 ± 6.6	94	0.06	Dull yellow brown	Faint earth	Loamy	< 7.2	110 ± 8.1	110	0.05			
Sawara	Inashiki City			2024/5/29	Sunny	21.8	Dark brown	Faint earth	loamy	< 8.3	62 ± 6.2	62	0.05	Dark brown	Faint earth	Loamy	< 9.2	52 ± 5.7	52	0.05					
					2024/8/3	Sunny	27.6	Dark brown	Faint earth	loamy	< 7.6	69 ± 5.9	69	0.05	Dull yellow brown	Faint earth	Loamy	< 9.1	120 ± 7.9	120	0.05				

* It may be difficult to collect soils due to artificial soil cover, topography, etc.

Ibaraki Lakes (Water) 1/4

Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks
No.	Water Area	Location	Surface layer/ Deep layer					General items						Activity concentration(Bq/L)				
								Water temperature (°C)	Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium		
														Cs-134	Cs-137			
Lakes and Reservoirs	54	Hiroura	Surface layer	2024/5/23	Cloudy	23.5	2.3	22.0	0.5	Grayish reddish yellow	None	0.3	1,110	28	27	< 0.53	< 0.74	
			Deep layer					21.9	1.3	-	None		1,120	42	28	< 0.64	< 0.58	
			Surface layer	2024/8/21	Cloudy	26.8	2.8	29.5	0.5	Grayish reddish yellow	None	0.6	1,240	7	4.3	< 0.62	< 0.58	
			Deep layer					29.3	1.8	-	None		1,220	7	4.3	< 0.57	< 0.48	
			Surface layer	2024/11/20	Cloudy	6.0	2.6	13.4	0.5	Dark grayish greenish yellow	None	0.7	637	10	12	< 0.53	< 0.51	
			Deep layer					13.0	1.6	-	None		632	10	12	< 0.57	< 0.74	
	Surface layer	2025/1/17	Sunny	4.3	2.6	4.5	0.5	Dark grayish reddish yellow	None	1.7	2,500	3	3.3	< 0.61	< 0.48			
	Deep layer					5.9	1.6	-	None		2,970	4	4.0	< 0.60	< 0.66			
	55	Hinuma	Miyamae	Surface layer	2024/5/23	Cloudy	23.4	2.8	22.4	0.5	Grayish reddish yellow	None	0.4	820	26	23	< 0.64	< 0.51
				Deep layer					21.8	1.8	-	None		1,090	120	56	< 0.59	< 0.68
				Surface layer	2024/8/21	Cloudy	28.3	3.2	29.3	0.5	Grayish reddish yellow	None	0.9	1,150	5	3.9	< 0.64	< 0.55
				Deep layer					29.0	2.2	-	None		1,180	14	3.4	< 0.50	< 0.61
				Surface layer	2024/11/20	Cloudy	6.1	3.0	13.0	0.5	Dark grayish greenish yellow	None	0.9	608	10	12	< 0.64	< 0.61
				Deep layer					12.9	2.0	-	None		647	12	13	< 0.56	< 0.58
	Surface layer	2025/1/17	Sunny	2.5	2.9	4.4	0.5	Dark grayish reddish yellow	None	1.7	2,380	3	3.4	< 0.48	< 0.48			
	Deep layer					8.3	1.9	-	None		3,720	6	4.0	< 0.50	< 0.69			
	56		Oyazawa	Surface layer	2024/5/23	Cloudy	22.4	2.0	22.9	0.5	Dark grayish reddish yellow	None	0.3	597	24	24	< 0.61	< 0.58
				Deep layer					22.5	1.0	-	None		953	100	41	< 0.56	< 0.65
				Surface layer	2024/8/21	Cloudy	27.8	2.5	27.4	0.5	Dark grayish reddish yellow	None	0.6	176	16	8.3	< 0.56	< 0.54
				Deep layer					28.0	1.5	-	None		498	13	5.7	< 0.64	< 0.47
				Surface layer	2024/11/20	Cloudy	5.8	2.1	12.4	0.5	Dark grayish greenish yellow	None	0.7	209	11	12	< 0.69	< 0.54
				Deep layer					12.3	1.1	-	None		245	11	13	< 0.56	< 0.58
	Surface layer	2025/1/17	Sunny	1.6	2.3	4.2	0.5	Dark grayish reddish yellow	None	1.5	1,450	3	2.7	< 0.55	< 0.54			
	Deep layer					7.4	1.3	-	None		3,550	10	8.1	< 0.50	< 0.63			
	57		Offshore of Tamatsukuri	Surface layer	2024/5/23	Cloudy	22.6	6.7	22.0	0.5	Grayish yellow green	None	0.6	33.6	15	11	< 0.62	< 0.51
				Deep layer					21.7	5.7	-	None		32.6	14	10	< 0.59	< 0.58
				Surface layer	2024/8/20	Cloudy	31.9	6.2	30.3	0.5	Grayish yellow green	None	0.8	30.9	10	7.6	< 0.38	< 0.44
				Deep layer					29.9	5.2	-	None		31.5	11	8.0	< 0.71	< 0.65
Surface layer				2024/11/26	Sunny	15.4	6.9	13.3	0.5	Grayish reddish yellow	None	0.7	26.1	26	17	< 0.66	< 0.61	
Deep layer								12.6	5.9	-	None		26.5	15	13	< 0.48	< 0.51	
Surface layer	2025/1/28	Sunny	7.3	7.2	6.7	0.5	Grayish yellow	None	1.9	31.7	9	9.7	< 0.58	< 0.65				
Deep layer					6.3	6.2	-	None		34.2	11	10	< 0.52	< 0.66				
58	Lake Kasumigaura	Offshore of Kakeuma	Surface layer	2024/5/23	Cloudy	21.6	1.9	22.2	0.0	Grayish greenish yellow	None	0.8	32.4	15	10	< 0.59	< 0.63	
			Deep layer					-	-	-	-		-	-	-	-	-	-
			Surface layer	2024/8/20	Sunny	32.7	2.0	30.7	0.5	Grayish greenish yellow	None	0.6	31.3	13	8.9	< 0.64	< 0.64	
			Deep layer					30.6	1.0	-	None		31.9	16	8.3	< 0.69	< 0.64	
			Surface layer	2024/11/26	Sunny	13.0	1.8	13.2	0.0	Grayish yellow	None	0.6	26.7	18	17	< 0.55	< 0.54	
			Deep layer					-	-	-	-		-	-	-	-	-	-
Surface layer	2025/1/28	Sunny	9.2	1.9	7.4	0.0	Grayish yellow	None	1.2	33.3	16	13	< 0.62	< 0.52				
Deep layer					-	-	-	-		-	-	-	-	-	-	-	Collect samples from the upper layer due to shallow water	
59		Center	Surface layer	2024/5/23	Cloudy	22.8	6.5	21.7	0.5	Grayish greenish yellow	None	0.7	34.0	11	7.9	< 0.60	< 0.54	
			Deep layer					21.5	5.5	-	None		33.4	15	9.8	< 0.60	< 0.66	
			Surface layer	2024/8/20	Cloudy	28.1	5.8	29.3	0.5	Grayish greenish yellow	None	0.8	33.3	11	6.2	< 0.54	< 0.61	
			Deep layer					29.1	4.8	-	None		33.5	11	6.8	< 0.57	< 0.51	
			Surface layer	2024/11/26	Cloudy	8.3	6.5	12.6	0.5	Grayish yellow	None	0.6	28.9	16	15	< 0.64	< 0.58	
			Deep layer					12.5	5.5	-	None		28.9	16	15	< 0.69	< 0.58	
Surface layer	2025/1/28	Sunny	6.3	6.5	5.9	0.5	Grayish yellow	None	1.8	33.7	9	8.6	< 0.59	< 0.71				
Deep layer					5.8	5.5	-	None		47.6	8	8.6	< 0.47	< 0.58				

Ibaraki Lakes (Water) 3/4

Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks
No.	Water Area	Location	Surface layer/ Deep layer					General items						Activity concentration (Bq/L)				
								Water temperature (°C)	Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium		
														Cs-134	Cs-137			
Lakes and Reservoirs	66	Mizunuma Dam	Center	Surface layer	2024/5/21	Sunny	22.0	17.8	18.9	0.5	Dark grayish greenish yellow	None	3.0	5.3	<1	0.8	< 0.71	< 0.87
				Deep layer					11.9	16.8	-	None		6.1	2	1.3	< 0.87	< 0.62
				Surface layer	2024/8/1	Cloudy	27.9	11.4	24.7	0.5	Dark grayish yellow	None	1.0	6.2	3	2.0	< 0.91	< 0.85
				Deep layer					15.8	10.4	-	None		7.3	7	4.5	< 0.75	< 0.85
				Surface layer	2024/11/5	Sunny	18.1	19.0	15.7	0.5	Dark grayish greenish yellow	None	1.5	5.8	2	3.0	< 0.71	< 0.72
				Deep layer					14.1	18.0	-	None		6.0	3	2.7	< 0.59	< 0.70
	Surface layer	2025/1/31	Sunny	11.2	15.7	5.1	0.5	Grayish greenish yellow	None	3.0	7.0	2	2.4	< 0.66	< 0.73			
	Deep layer					4.9	14.7	-	None		6.8	2	2.2	< 0.81	< 0.80			
	67	Koyama Dam	Center	Surface layer	2024/5/21	Sunny	22.0	15.7	21.9	0.5	Dark grayish yellow	None	5.0	6.9	<1	1.3	< 0.60	< 0.59
				Deep layer					12.0	14.7	-	None		7.0	2	2.1	< 0.63	< 0.65
				Surface layer	2024/8/1	Cloudy	29.8	15.4	26.7	0.5	Grayish yellow green	None	1.5	6.7	<1	1.2	< 0.78	< 0.85
				Deep layer					9.4	14.4	-	None		8.5	3	3.0	< 0.73	< 0.75
				Surface layer	2024/11/1	Cloudy	17.3	14.5	16.3	0.5	Dark grayish yellow	None	2.0	7.9	3	2.6	< 0.81	< 0.62
				Deep layer					13.2	13.5	-	None		8.8	4	7.9	< 0.77	< 0.77
	Surface layer	2025/1/31	Sunny	6.9	17.2	6.3	0.5	Grayish yellow	None	2.0	9.0	3	2.8	< 0.64	< 0.58			
	Deep layer					5.4	16.2	-	None		9.1	2	2.5	< 0.78	< 0.89			
	68	Hananuki Dam	Center	Surface layer	2024/5/22	Cloudy	17.0	23.5	19.9	0.5	Dark grayish yellow green	None	2.0	5.5	2	1.8	< 0.82	< 0.59
				Deep layer					10.3	22.5	-	None		5.3	<1	1.0	< 0.57	< 0.50
				Surface layer	2024/8/1	Cloudy	29.2	17.5	26.3	0.5	Grayish yellow	None	1.0	5.8	4	2.7	< 0.57	< 0.88
				Deep layer					10.8	16.5	-	None		7.6	9	5.3	< 0.79	< 0.81
				Surface layer	2024/11/1	Sunny	15.3	20.3	17.9	0.5	Dark grayish yellow green	None	3.0	6.5	<1	2.1	< 0.82	< 0.58
				Deep layer					17.6	19.3	-	None		6.8	2	2.8	< 0.75	< 0.89
	Surface layer	2025/1/31	Sunny	8.7	24.9	6.2	0.5	Grayish yellow green	None	2.5	6.8	<1	1.8	< 0.61	< 0.97			
	Deep layer					5.6	23.9	-	None		6.9	<1	1.8	< 0.88	< 0.73			
69	Jyuou Dam	Center	Surface layer	2024/5/22	Cloudy	19.0	21.0	22.9	0.5	Dark grayish yellow green	None	1.0	9.1	10	6.6	< 0.76	< 0.59	
			Deep layer					10.9	20.0	-	None		8.9	7	3.0	< 0.61	< 0.66	
			Surface layer	2024/8/1	Sunny	28.3	17.7	28.1	0.5	Dark grayish yellow green	None	3.0	11.7	2	1.4	< 0.87	< 0.70	
			Deep layer					9.6	16.7	-	None		11.6	8	4.3	< 0.89	< 0.69	
			Surface layer	2024/11/5	Cloudy	19.5	23.7	17.2	0.5	Light grayish yellow green	None	1.5	10.6	4	4.3	< 0.77	< 0.69	
			Deep layer					10.9	22.7	-	None		13.2	7	6.4	< 0.59	< 0.64	
Surface layer	2025/1/27	Sunny	4.0	22.0	4.7	0.5	Dark grayish yellow green	None	2.0	12.0	2	2.4	< 0.83	< 0.64				
Deep layer					4.0	21.0	-	None		12.2	3	2.6	< 0.79	< 0.82				
70	Ryujin Dam	Center	Surface layer	2024/5/22	Cloudy	20.0	23.0	22.0	0.5	Dark grayish yellow green	None	2.0	5.2	3	2.6	< 0.55	< 0.68	
			Deep layer					12.9	22.0	-	None		5.4	4	3.0	< 0.67	< 0.70	
			Surface layer	2024/8/1	Sunny	28.9	19.2	28.2	0.5	Dark grayish yellow green	None	2.0	7.2	2	2.4	< 0.59	< 0.66	
			Deep layer					18.4	18.2	-	None		7.9	4	3.6	< 0.84	< 0.62	
			Surface layer	2024/11/6	Sunny	13.6	24.2	17.1	0.5	Dark grayish yellow green	None	3.0	6.7	2	2.6	< 0.48	< 0.50	
			Deep layer					16.1	23.2	-	None		6.4	2	2.7	< 0.75	< 0.64	
Surface layer	2025/1/27	Sunny	6.0	26.5	5.7	0.5	Dark grayish yellow green	None	3.0	7.4	<1	1.4	< 0.66	< 0.88				
Deep layer					5.6	25.5	-	None		7.3	2	1.7	< 0.86	< 0.62				
71	Fujiigawa Dam	Center	Surface layer	2024/5/23	Cloudy	20.0	11.3	21.6	0.5	Grayish greenish yellow	None	2.0	11.7	3	1.3	< 0.79	< 0.69	
			Deep layer					18.9	10.3	-	None		11.3	6	3.3	< 0.68	< 0.68	
			Surface layer	2024/8/2	Sunny	32.4	10.2	29.7	0.5	Grayish greenish yellow	None	3.0	11.8	6	2.8	< 0.75	< 0.72	
			Deep layer					25.8	9.2	-	None		13.3	10	5.0	< 0.59	< 0.61	
			Surface layer	2024/11/6	Sunny	15.3	14.5	16.3	0.5	Grayish greenish yellow	None	2.0	10.8	5	4.3	< 0.54	< 0.82	
			Deep layer					15.5	13.5	-	None		9.9	3	2.4	< 0.79	< 0.81	
Surface layer	2025/1/27	Sunny	5.7	13.7	6.1	0.5	Grayish yellow	None	1.5	14.6	3	3.1	< 0.87	< 0.77				
Deep layer					5.2	12.7	-	None		15.2	2	2.5	< 0.85	< 0.70				

Ibaraki Lakes (Water) 4/4

	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water								Activity concentration(Bq/L)		Remarks
	No.	Water Area	Location					Surface layer/ Deep layer	General items					Radioactive cesium				
									Water temperature (°C)	Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Cs-134	
Lakes and Reservoirs	72	Iida Dam	Center	Surface layer	2024/5/23	Cloudy	23.0	16.5	22.3	0.5	Dark grayish yellow green	None	3.0	9.1	2	0.7	< 0.60	< 0.56
				Deep layer					9.4	15.5	-	None		8.3	2	1.2	< 0.82	< 0.68
				Surface layer	2024/8/2	Sunny	32.4	14.8	31.6	0.5	Dark grayish yellow green	None	3.0	10.6	4	3.1	< 0.78	< 0.85
				Deep layer					10.7	13.8	-	None		11.4	8	4.1	< 0.68	< 0.85
				Surface layer	2024/11/6	Cloudy	15.5	16.1	19.5	0.5	Dark grayish yellow green	None	2.5	9.1	2	1.5	< 0.61	< 0.64
				Deep layer					15.5	15.1	-	None		10.5	7	7.5	< 0.71	< 0.75
				Surface layer	2025/1/27	Sunny	7.8	18.1	6.4	0.5	Dark grayish yellow green	None	2.5	10.0	<1	2.5	< 0.76	< 0.78
				Deep layer					5.9	17.1	-	None		10.0	2	2.3	< 0.78	< 0.69

Ibaraki Lakes (Sediment) 1/2

		Location			Weather	Air temperature (°C)	Water depth (m)	Sediment																Remarks		
No.	Water Area	Location	Sampling Date	Sediment temperature (°C)				General items										Activity concentration [Bq/kg(dry)]								
								Sample length (cm)	Color	Odor	Grain size distribution(%)						Sediment content (%)	Density (Mg/m ³)	Property	Radioactive cesium						
						Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt	clay				Cs-134	Cs-137	Total							
Lakes and Reservoirs	54	Hiroura	2024/5/23	Cloudy	23.5	2.3	21.4	6	Brownish black	None	0.0	0.0	0.0	1.1	2.5	16.4	48.5	31.5	46.7	2.63	silt	<	5.7	44 ± 3.3	44	
			2024/8/21	Cloudy	26.8	2.8	28.9	5	Olive black	None	0.0	0.0	0.0	1.8	2.5	17.0	49.2	29.5	45.6	2.67	silt/clay	<	5.3	26 ± 3.0	26	
			2024/11/20	Cloudy	6.0	2.6	16.4	7	Olive black	Faint swamp	0.0	0.0	0.0	0.0	2.5	16.2	48.8	32.5	44.8	2.68	silt	<	8.4	46 ± 4.2	46	
	55	Hinuma	Miyamae	2025/1/17	Sunny	4.3	2.6	9.0	7	Black	None	0.0	0.0	0.0	1.1	3.7	17.9	48.5	28.8	42.4	2.68	silt	<	6.8	37 ± 3.2	37
				2024/5/23	Cloudy	23.4	2.8	21.6	8	Olive black	Faint sewage	0.0	0.0	0.0	0.2	0.6	5.0	35.4	58.8	22.0	2.59	silt	<	5.9	120 ± 4.3	120
				2024/8/21	Cloudy	28.3	3.2	28.6	7	Olive black	Faint sewage	0.0	0.0	0.0	0.1	0.6	4.7	22.1	72.5	19.4	2.59	silt	<	7.7	82 ± 4.0	82
	56	Oyazawa		2024/11/20	Cloudy	6.1	3.0	16.5	10	Black	Faint sewage	0.0	0.0	0.0	0.0	0.5	4.2	36.7	58.6	20.1	2.63	silt	<	9.1	82 ± 5.1	82
				2025/1/17	Sunny	2.5	2.9	9.8	7	Black	Faint hydrogen sulfide	0.0	0.0	0.0	0.0	0.5	5.1	41.9	52.5	21.3	2.64	silt	<	7.6	89 ± 4.8	89
				2024/5/23	Cloudy	22.4	2.0	22.2	8	Olive black	Faint algae	0.0	0.0	0.0	0.0	0.5	4.7	42.3	52.5	27.2	2.53	silt	<	8.3	130 ± 6.0	130
	57	Offshore of Tamatsukuri		2024/8/21	Cloudy	27.8	2.5	29.3	6	Olive black	None	0.0	0.0	0.0	0.6	0.6	6.0	41.2	51.6	27.3	2.59	silt	<	6.3	120 ± 4.8	120
				2024/11/20	Cloudy	5.8	2.1	16.1	10	Black	Faint swamp	0.0	0.0	0.0	0.2	0.5	4.8	50.8	43.7	25.7	2.59	silt	<	8.9	130 ± 5.8	130
				2025/1/17	Sunny	1.6	2.3	10.2	9	Black	None	0.0	0.0	0.0	0.1	0.7	6.0	49.8	43.4	25.5	2.61	silt	<	8.0	130 ± 5.6	130
	58	Offshore of Kakeuma		2024/5/23	Cloudy	22.6	6.7	20.9	10	Olive black	None	0.0	0.0	0.0	0.0	0.2	1.2	24.0	74.6	16.0	2.41	silt	<	6.7	230 ± 5.7	230
				2024/8/20	Cloudy	31.9	6.2	29.3	10	Olive black	Faint swamp	0.0	0.0	0.0	0.0	0.1	1.0	26.6	72.3	16.5	2.45	silt	<	7.0	220 ± 5.9	220
				2024/11/26	Sunny	15.4	6.9	14.1	9	Olive black	Faint hydrogen sulfide	0.0	0.0	0.0	0.1	0.2	0.9	44.0	54.8	16.0	2.46	silt	<	9.6	250 ± 7.0	250
	59	Lake Kasumigaura	Center	2025/1/28	Sunny	7.3	7.2	6.8	8	Olive black	Faint ditch	0.0	0.0	0.0	0.1	0.1	1.7	26.7	71.4	15.2	2.47	silt	<	9.2	210 ± 6.2	210
				2024/5/23	Cloudy	21.6	1.9	20.2	3	Olive black	None	0.0	0.0	0.2	2.0	49.2	44.3	1.9	2.4	74.5	2.73	silt/sand	<	4.4	70 ± 4.0	70
				2024/8/20	Sunny	32.7	2.0	30.5	3	Olive black	None	0.0	0.0	0.1	1.6	41.2	51.8	2.8	2.5	74.6	2.76	sand/silt	<	4.4	64 ± 3.6	64
	60	Offshore of Aso		2024/11/26	Sunny	13.0	1.8	13.0	4	Olive black	Faint seaweed	0.0	0.0	0.1	0.1	42.7	54.6	1.3	1.2	80.6	2.73	sand	<	4.5	17 ± 2.2	17
				2025/1/28	Sunny	9.2	1.9	7.1	3	Olive brown	Faint swamp	0.0	0.0	0.1	0.1	48.4	49.9	0.8	0.7	78.6	2.72	sand	<	4.1	18 ± 2.5	18
				2024/5/23	Cloudy	22.8	6.5	20.3	10	Olive black	Faint swamp	0.0	0.0	0.0	0.0	0.1	0.4	25.0	74.5	14.3	2.40	silt	<	6.2	260 ± 5.6	260
	61	Offshore of Kamaya		2024/8/20	Cloudy	28.1	5.8	29.2	10	Olive black	Faint swamp	0.0	0.0	0.0	0.0	0.1	0.2	25.6	74.1	14.8	2.43	silt	<	6.8	280 ± 6.3	280
				2024/11/26	Cloudy	8.3	6.5	14.2	9	Olive black	Faint swamp	0.0	0.0	0.0	0.0	0.1	0.1	28.1	71.7	14.5	2.45	silt	<	8.8	290 ± 7.1	290
				2025/1/28	Sunny	6.3	6.5	6.8	5	Olive black	Faint swamp	0.0	0.0	0.0	0.0	0.2	1.7	23.5	74.6	13.3	2.46	silt	<	7.2	260 ± 5.5	260
	62	Lake Kitaura	Jingu Bridge	2024/5/23	Cloudy	21.8	1.8	21.2	2	Olive black	None	0.0	0.0	0.0	0.2	17.0	79.5	1.3	2.0	78.0	2.70	sand	<	5.0	40 ± 3.1	40
				2024/8/20	Cloudy	27.8	1.7	28.5	2	Olive black	None	0.0	0.0	0.2	0.4	3.7	93.7	0.7	1.3	75.9	2.74	sand	<	4.4	46 ± 3.2	46
				2024/11/26	Cloudy	9.8	2.1	12.0	2	Olive black	None	0.0	0.0	0.0	0.1	2.9	92.7	2.6	1.7	79.4	2.74	sand	<	4.4	39 ± 3.1	39
	63	Lake Sotonasakaura		2025/1/28	Sunny	8.0	2.3	6.8	3	Olive brown	Faint seaweed	0.0	0.0	0.1	0.0	3.3	95.6	0.8	0.2	74.6	2.75	sand	<	4.8	50 ± 3.6	50
				2024/5/30	Cloudy	23.3	6.5	22.3	10	Olive black	Faint swamp	0.0	0.0	0.0	0.0	0.1	0.8	30.8	68.3	13.9	2.30	silt	<	7.4	180 ± 5.1	180
				2024/8/21	Cloudy	30.0	6.1	27.6	10	Olive black	None	0.0	0.0	0.0	0.1	0.1	0.2	28.9	70.7	15.4	2.34	silt	<	7.4	200 ± 5.3	200
64	Hitachitone River	Ikisu	2024/11/26	Sunny	14.5	6.9	14.6	10	Olive black	Faint swamp	0.0	0.0	0.0	0.1	0.4	0.6	28.7	70.2	12.9	2.39	silt	<	9.5	190 ± 6.0	190	
			2025/2/15	Sunny	5.6	6.5	7.2	10	Olive black	Faint swamp	0.0	0.0	0.0	0.1	0.2	1.1	10.6	88.0	12.6	2.35	silt	<	7.1	190 ± 4.8	190	
			2024/5/30	Cloudy	25.0	2.6	22.1	5	Olive black	None	0.0	0.0	0.2	1.4	23.7	66.4	4.2	4.1	76.5	2.67	sand/silt	<	4.2	30 ± 2.8	30	
65	Lake Ushikunuma	Center of Lake Ushikunuma	2024/8/21	Cloudy	31.0	3.0	29.7	4	Olive black	Faint swamp	0.0	0.0	0.0	0.2	5.5	73.4	8.6	12.3	68.5	2.66	sand/silt	<	5.7	46 ± 3.6	46	
			2024/11/26	Cloudy	15.3	3.7	14.1	5	Olive black	Faint swamp	0.0	0.0	0.0	0.1	5.1	68.8	11.2	14.8	58.3	2.68	silt/sand	<	4.3	45 ± 3.5	45	
			2025/2/15	Sunny	7.7	3.4	7.1	4	Olive black	Faint swamp	0.0	0.0	0.0	0.1	2.8	71.4	10.6	15.1	60.9	2.69	sand/silt	<	6.5	59 ± 4.3	59	
66	Mizunuma Dam	Center	2024/5/30	Cloudy	25.2	2.4	23.2	2	Dark olive	None	0.0	0.0	0.0	0.2	4.8	92.2	1.9	0.9	79.3	2.68	sand/silt	<	5.3	16 ± 2.5	16	
			2024/8/21	Cloudy	30.7	2.4	29.6	4	Grayish olive	Faint swamp	0.0	0.0	0.0	0.1	1.7	90.9	1.2	6.1	73.8	2.71	sand/silt	<	4.3	22 ± 2.5	22	
			2024/11/26	Cloudy	15.7	2.1	14.5	3	Grayish olive	Faint swamp	0.0	0.0	0.0	0.1	1.9	92.0	2.8	3.2	78.4	2.72	sand/silt	<	5.6	20 ± 2.6	20	
67	Koyama Dam	Center	2025/2/15	Sunny	9.0	3.9	6.8	8	Olive black	None	0.0	0.0	0.0	0.1	6.3	85.2	4.6	3.8	76.6	2.72	sand/silt	<	4.9	31 ± 3.1	31	
			2024/5/30	Cloudy	25.9	4.8	24.0	3	Olive black	None	0.0	0.0	0.1	1.0	28.7	69.1	0.4	0.7	76.8	2.73	sand	<	4.9	23 ± 3.0	23	
			2024/8/21	Cloudy	28.3	4.6	29.7	2	Olive black	None	0.0	0.1	0.2	0.5	12.9	83.7	1.0	1.6	76.6	2.71	sand	<	5.3	25 ± 3.1	25	
68	Lake Ushikunuma	Center of Lake Ushikunuma	2024/11/26	Cloudy	15.8	5.0	14.0	4	Grayish olive	None	0.0	0.0	0.6	3.1	17.0	76.3	1.3	1.7	78.8	2.73	sand	<	5.1	18 ± 2.5	18	
			2025/2/15	Sunny	9.7	5.2	8.1	4	Olive black	None	0.0	0.0	0.2	1.2	20.3	76.5	1.2	0.6	78.2	2.73	sand	<	6.9	29 ± 2.9	29	
			2024/5/15	Sunny	24.8	1.9	21.0	10	Black	Faint swamp	0.0	0.0	0.0	0.0	2.8	8.8	43.1	45.3	23.5	2.47	silt	<	7.6	320 ± 7.7	320	
69	Mizunuma Dam	Center	2024/8/19	Cloudy	34.1	1.6	29.8	8	Olive black	Faint swamp	0.0	0.0	0.0	0.0	2.9	6.7	37.5	52.9	21.4	2.43	silt	<	6.5	340 ± 7.1	340	
			2024/11/19	Sunny	12.9	1.6	16.0	9	Olive black	Faint swamp	0.0	0.0	0.0	0.0	0.2	0.6	23.0	76.2	19.5	2.43	silt	<	6.8	370 ± 7.6	370	
			2025/1/30	Sunny	8.5	1.9	8.0	5	Black	Faint sewage	0.0	0.0	0.0	0.1	0.2	1.4	42.6	55.7	17.0	2.38	silt	<	8.6	380 ± 8.4	380	
70	Koyama Dam	Center	2024/5/21	Sunny	22.0	17.8	9.7	4	Dark grayish yellow	Faint swamp	0.0	0.0	0.0	0.1	0.1	3.6	54.7	41.5	23.0	2.36	silt	<	7.9	300 ± 8.0	300	
			2024/8/1	Cloudy	27.9	11.4	13.5	4	Dark brown	Faint hydrogen sulfide	0.0	0.0	0.0	0.1	0.0	1.9	54.4	43.6	21.7	2.43	silt	<	9.3	330 ± 10	330	
			2024/11/5	Sunny	18.1	19.0	11.2	3	Dark grayish yellow	None	0.0	0.0	0.0	0.0	0.1	0.9	55.7	43.3	20.9	2.45	silt	<	9.8	320 ± 9.4	320	
71	Koyama																									

Ibaraki Lakes (Sediment) 2/2

Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment																	Remarks		
No.	Water Area	Location					Sediment temperature (°C)	Sample length (cm)	Color	Odor	General items								Sediment content (%)	Density (Mg/m ³)	Property	Activity concentration [Bq/kg(dry)]				
											Grain size distribution(%)											Radioactive cesium				
							Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt	clay				Cs-134	Cs-137	Total						
Lakes and Reservoirs	68	Hananuki Dam	Center	2024/5/22	Cloudy	17.0	23.5	8.1	3	Brownish black	Faint sewage	0.0	0.0	0.0	4.2	6.3	9.1	41.8	38.6	29.9	2.42	silt	<	7.5	260 ± 7.5	260
				2024/8/1	Cloudy	29.2	17.5	13.5	4	Brownish black	Faint hydrogen sulfide	0.0	0.0	0.0	0.1	0.1	6.8	46.4	46.6	23.4	2.42	silt	<	8.8	270 ± 8.6	270
				2024/11/1	Sunny	15.3	20.3	15.0	4	Brownish black	Faint sewage	0.0	0.0	0.0	0.1	0.1	8.6	43.7	47.5	23.2	2.44	silt	<	8.3	550 ± 9.3	550
				2025/1/31	Sunny	8.7	24.9	4.2	5	Brownish black	Faint ditch	0.0	0.0	0.0	0.4	0.4	3.2	45.5	50.5	21.0	2.38	silt	<	9.6	370 ± 11	370
	69	Jyuou Dam	Center	2024/5/22	Cloudy	19.0	21.0	8.7	4	Grayish olive	Faint sewage	0.0	0.0	0.0	0.1	0.1	0.1	40.0	59.7	30.8	2.52	silt	<	7.2	170 ± 7.3	170
				2024/8/1	Sunny	28.3	17.7	11.1	3	Grayish olive	Faint sewage	0.0	0.0	0.0	0.0	0.2	0.3	45.5	54.0	27.7	2.60	silt	<	4.6 ± 1.4	170 ± 3.4	174.6
				2024/11/5	Cloudy	19.5	23.7	10.2	3	Grayish olive	Faint hydrogen sulfide	0.0	0.0	0.0	0.1	0.1	0.3	43.3	56.2	30.2	2.67	silt	<	3.8	100 ± 2.7	100
				2025/1/27	Sunny	4.0	22.0	5.0	4	Grayish olive	Faint sewage	0.0	0.0	0.0	0.1	0.0	0.1	35.7	64.1	31.4	2.62	silt	<	8.8	180 ± 7.9	180
	70	Ryujin Dam	Center	2024/5/22	Cloudy	20.0	23.0	8.5	3	Olive black	Faint sewage	0.0	0.0	0.0	0.7	0.5	0.4	26.3	72.1	18.6	2.37	silt	<	9.4	270 ± 7.9	270
				2024/8/1	Sunny	28.9	19.2	12.9	3	Olive black	Faint sewage	0.0	0.0	0.2	0.7	1.3	1.8	34.4	61.6	21.9	2.39	silt	<	9.2	140 ± 5.5	140
				2024/11/6	Sunny	13.6	24.2	12.1	3	Olive black	None	0.0	0.0	0.0	0.1	0.0	0.3	33.3	66.3	13.8	2.37	silt	<	8.9	250 ± 7.0	250
				2025/1/27	Sunny	6.0	26.5	6.0	3	Olive black	Faint sewage	0.0	0.0	0.0	0.5	0.6	1.4	42.3	55.2	16.7	2.41	silt	<	9.8	130 ± 6.9	130
	71	Fujigawa Dam	Center	2024/5/23	Cloudy	20.0	11.3	17.2	4	Olive black	Faint swamp	0.0	0.0	0.0	0.0	1.1	17.3	44.7	36.9	34.0	2.49	silt	<	7.3	89 ± 5.5	89
				2024/8/2	Sunny	32.4	10.2	24.8	3	Olive black	Faint swamp	0.0	0.0	0.0	0.0	0.2	1.6	57.1	41.1	23.9	2.50	silt	<	9.7	120 ± 7.7	120
				2024/11/6	Sunny	15.3	14.5	14.8	3	Olive black	Faint sewage	0.0	0.0	0.0	0.3	2.4	23.3	35.2	38.8	33.1	2.55	silt	<	9.7	92 ± 6.2	92
				2025/1/27	Sunny	5.7	13.7	5.4	3	Olive black	None	0.0	0.0	0.0	0.1	0.2	0.5	36.1	63.1	23.1	2.52	silt	<	9.0	100 ± 6.3	100
	72	Iida Dam	Center	2024/5/23	Cloudy	23.0	16.5	6.7	4	Olive black	Faint swamp	0.0	0.0	0.0	0.2	0.2	0.4	43.1	56.1	17.3	2.44	silt	<	7.7	240 ± 6.9	240
				2024/8/2	Sunny	32.4	14.8	10.7	3	Olive black	Faint swamp	0.0	0.0	0.0	0.1	0.3	0.5	43.4	55.7	16.2	2.48	silt	<	9.2	220 ± 6.5	220
				2024/11/6	Cloudy	15.5	16.1	13.7	3	Olive black	Faint swamp	0.0	0.0	0.0	0.1	0.3	0.4	51.1	48.1	11.6	2.50	silt	<	9.6	450 ± 9.4	450
				2025/1/27	Sunny	7.8	18.1	5.9	3	Olive black	Faint hydrogen sulfide	0.0	0.0	0.0	0.1	0.0	0.2	38.9	60.8	15.3	2.53	silt	<	9.8	290 ± 8.4	290

Ibaraki Lakes(SE) 1/1

	Location			Sampling Date	Weather	Air temperature (°C)	Surrounding Environment(Soil,Air dose)						Air dose (μSv/h)	Remarks	
							Soil								
	No.	Water Area	Location				Color	Odor	Property	Activity concentration [Bq/kg(dry)]					
										Radioactive cesium					
		Cs-134	Cs-137	Total											
L a k e a n d R e s e r v o i r s	54		Hiroura	2024/5/23	Cloudy	23.5	Brownish black	Faint earth	loamy	< 7.3	30 ± 3.6	30	0.06		
			Hiroura	2024/8/21	Cloudy	26.8	Dark brown	Faint earth	loamy	5.0 ± 1.6	380 ± 8.2	385.0	0.07		
	55	Hinuma	Miyamae	2024/5/23	Cloudy	23.4	Brownish black	Faint earth	loamy	8.5 ± 2.5	460 ± 12	468.5	0.05		
			Miyamae	2024/8/21	Cloudy	28.3	Dark brown	Faint earth	loamy	< 6.1	32 ± 3.3	32	0.06		
	56		Oyazawa	2024/5/23	Cloudy	22.4	-	-	-	-	-	-	-	-	No sampling soil location
			Oyazawa	2024/8/21	Cloudy	27.8	-	-	-	-	-	-	-	-	No sampling soil location
	57		Offshore of Tamatsukuri	2024/5/23	Cloudy	22.6	Grayish yellow brown	None	sandy	< 4.7	17 ± 2.4	17	0.05		
			Offshore of Tamatsukuri	2024/8/20	Cloudy	31.9	Grayish yellow brown	Faint earth	sandy	< 3.8	21 ± 2.3	21	0.05		
	58	Lake Kasumigaura	Offshore of Kakeuma	2024/5/23	Cloudy	21.6	Dull yellow brown	None	sandy	< 4.0	48 ± 2.9	48	0.06		
			Offshore of Kakeuma	2024/8/20	Sunny	32.7	-	-	-	-	-	-	-	-	Unable to collect samples due to location inaccessibility.*
	59	Lake Kasumigaura	Center	2024/5/23	Cloudy	22.8	-	-	-	-	-	-	-	-	No sampling soil location
			Center	2024/8/20	Cloudy	28.1	-	-	-	-	-	-	-	-	No sampling soil location
	60		Offshore of Aso	2024/5/23	Cloudy	21.8	Dull yellow brown	Faint earth	sandy	< 5.3	62 ± 3.8	62	0.07		
			Offshore of Aso	2024/8/20	Cloudy	27.8	Brown	None	sandy	< 4.0	90 ± 4.4	90	0.07		
	61	Lake Kitaura	Offshore of Kamaya	2024/5/30	Cloudy	23.3	Dull yellow brown	Faint earth	loamy	6.5 ± 2.0	390 ± 11	396.5	0.06		
			Offshore of Kamaya	2024/8/21	Cloudy	30.0	-	-	-	-	-	-	-	-	Unable to collect samples due to location inaccessibility.*
	62	Lake Kitaura	Jingu Bridge	2024/5/30	Cloudy	25.0	Brown	Faint earth	loamy	< 5.9	13 ± 2.8	13	0.06		
			Jingu Bridge	2024/8/21	Cloudy	31.0	Dull yellow brown	None	loamy	< 5.6	10 ± 2.1	10	0.05		
	63	Hitachitone River	Lake Sotonasakaura	2024/5/30	Cloudy	25.2	Dark brown	Faint earth	loamy	< 4.8	< 6.1	-	0.04		
			Lake Sotonasakaura	2024/8/21	Cloudy	30.7	Dull yellow brown	Faint earth	loamy	< 3.5	6.0 ± 1.7	6.0	0.04		
	64	Hitachitone River	Ikisu	2024/5/30	Cloudy	25.9	Brownish black	Faint earth	loamy	< 7.0	100 ± 5.7	100	0.04		
			Ikisu	2024/8/21	Cloudy	28.3	Dull yellow brown	Faint earth	loamy	< 5.1	120 ± 5.6	120	0.05		
	65	Lake Ushikunuma	Center of Lake Ushikunuma	2024/5/15	Sunny	24.8	Very dark reddish brown	Faint earth	sandy	< 6.5	160 ± 6.4	160	0.05		
			Center of Lake Ushikunuma	2024/8/19	Cloudy	34.1	Dark brown	Faint earth	loamy	< 5.2	140 ± 6.1	140	0.06		
	66	Mizunuma Dam	Center	2024/5/21	Sunny	22.0	Grayish yellow brown	Faint earth	loamy	< 9.3	380 ± 13	380	0.09		
			Center	2024/8/1	Cloudy	27.9	Dark brown	Faint earth	loamy	8.9 ± 2.2	280 ± 10	288.9	0.10		
	67	Koyama Dam	Center	2024/5/21	Sunny	22.0	Dull yellow brown	Faint earth	loamy	12 ± 2.5	300 ± 13	312	0.08		
			Center	2024/8/1	Cloudy	29.8	Dull yellow brown	Faint earth	loamy	8.6 ± 2.0	370 ± 11	378.6	0.08		
	68	Hananuki Dam	Center	2024/5/22	Cloudy	17.0	Brownish black	Faint earth	loamy	< 8.9	430 ± 13	430	0.08		
			Center	2024/8/1	Cloudy	29.2	Brownish black	Faint earth	loamy	11 ± 2.3	680 ± 16	691	0.08		
69	Jyuou Dam	Center	2024/5/22	Cloudy	19.0	Brownish black	Faint earth	loamy	17 ± 4.2	940 ± 24	957	0.05			
		Center	2024/8/1	Sunny	28.3	Dark brown	Faint earth	loamy	14 ± 2.8	820 ± 19	834	0.05			
70	Ryuujin Dam	Center	2024/5/22	Cloudy	20.0	Very dark brown	Faint earth	loamy	< 9.2	180 ± 8.8	180	0.07			
		Center	2024/8/1	Sunny	28.9	Very dark brown	Faint earth	loamy	< 7.5	120 ± 6.7	120	0.06			
71	Fujiigawa Dam	Center	2024/5/23	Cloudy	20.0	Brownish black	Faint earth	loamy	< 8.0	120 ± 8.0	120	0.08			
		Center	2024/8/2	Sunny	32.4	Brownish black	Faint earth	loamy	< 8.0	260 ± 8.7	260	0.09			
72	Iida Dam	Center	2024/5/23	Cloudy	23.0	Dark brown	Faint earth	loamy	< 8.9	140 ± 8.3	140	0.08			
		Center	2024/8/2	Sunny	32.4	Brown	Faint earth	loamy	< 7.7	220 ± 7.4	220	0.07			

* Reasons for difficulty in entering the study area include winter closures, winter road closures, typhoons and other disasters, construction, etc.

Ibaraki Coastal(Water) 1/1

No.	Location Water Area		Surface layer/ Deep layer	Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks		
								General items							Activity concentration(Bq/L)					
								Water temperature (°C)	Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Salinity (‰)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium				
							Cs-134	Cs-137												
73	Offshore of Satone River Estuary	Surface layer	2024/5/15	Sunny	20.6	11.5	18.4	0.5	Deep yellowish green	None	3.5	29.3	4	2.0	< 0.60	< 0.75				
		Deep layer					14.8	10.5	-	None		34.6	7	1.5	< 0.42	< 0.58				
		Surface layer	2024/8/7	Cloudy	26.3	11.5	26.2	0.5	Deep bluish green	None	4.0	33.2	2	0.7	< 0.57	< 0.52				
		Deep layer					24.9	10.5	-	None		33.3	3	0.4	< 0.59	< 0.66				
		Surface layer	2024/11/14	Sunny	18.0	12.3	20.4	0.5	Deep green	None	5.5	33.8	2	0.8	< 0.44	< 0.64				
		Deep layer					20.7	11.3	-	None		33.7	3	0.9	< 0.60	< 0.64				
	Surface layer	2025/1/31	Sunny	10.3	11.7	12.9	0.5	Deep bluish green	None	>11.7	34.4	2	0.4	< 0.45	< 0.58					
	Deep layer					12.9	10.7	-	None		34.4	2	0.5	< 0.59	< 0.61					
	74	Offshore of Okita River Estuary	Surface layer	2024/5/15	Sunny	23.2	10.8	18.4	0.5	Deep yellowish green	None	3.0	25.6	3	1.3	< 0.72	< 0.63			
			Deep layer					16.2	9.8	-	None		34.4	5	0.9	< 0.56	< 0.63			
			Surface layer	2024/8/7	Sunny	26.5	10.6	26.8	0.5	Deep bluish green	None	4.0	30.0	4	0.8	< 0.62	< 0.63			
			Deep layer					26.4	9.6	-	None		33.1	2	0.5	< 0.47	< 0.61			
Surface layer			2024/11/14	Sunny	18.0	11.7	20.7	0.5	Deep green	None	5.0	33.7	2	0.5	< 0.55	< 0.58				
Deep layer							20.0	10.7	-	None		33.7	<1	0.7	< 0.58	< 0.64				
Surface layer			2025/1/31	Sunny	10.3	11.2	12.4	0.5	Deep bluish green	None	>11.2	31.7	2	0.6	< 0.57	< 0.55				
Deep layer							13.1	10.2	-	None		34.3	2	0.5	< 0.71	< 0.61				
75	Offshore of Momiya River/Kujigawa River Estuaries	Surface layer	2024/5/15	Sunny	18.6	8.1	17.9	0.5	Deep yellow green	None	1.5	12.8	13	3.4	< 0.75	< 0.61				
		Deep layer					16.5	7.1	-	None		34.2	4	1.0	< 0.43	< 0.66				
		Surface layer	2024/8/7	Cloudy	26.0	8.7	26.8	0.5	Deep yellow green	None	2.0	31.6	5	1.1	< 0.60	< 0.47				
		Deep layer					26.3	7.7	-	None		33.3	1	0.5	< 0.58	< 0.51				
		Surface layer	2024/11/14	Cloudy	17.5	8.7	20.3	0.5	Deep green	None	5.0	32.9	3	1.1	< 0.62	< 0.58				
		Deep layer					20.3	7.7	-	None		33.8	1	0.9	< 0.65	< 0.71				
		Surface layer	2025/1/31	Sunny	7.1	9.0	13.2	0.5	Deep green	None	6.5	33.3	2	0.7	< 0.64	< 0.61				
		Deep layer					13.1	8.0	-	None		33.7	3	0.9	< 0.68	< 0.55				
		76	Neighboring water body of Ken-o	Offshore of Nakagawa River	Surface layer	2024/5/15	Sunny	18.3	6.6	18.8	0.5	Deep yellow green	None	1.5	5.2	14	7.2	< 0.44	< 0.63	
					Deep layer					16.5	5.6	-	None		34.0	9	2.0	< 0.66	< 0.52	
Surface layer	2024/8/7				Cloudy	26.0	4.5	27.3	0.5	Deep yellowish green	None	3.0	29.1	4	0.7	< 0.68	< 0.55			
Deep layer								26.6	3.5	-	None		32.8	6	0.9	< 0.61	< 0.55			
Surface layer	2024/11/14				Sunny	17.8	4.5	19.5	0.5	Deep yellowish green	None	3.0	19.5	4	1.7	< 0.70	< 0.55			
Deep layer								19.8	3.5	-	None		33.5	6	1.2	< 0.62	< 0.55			
Surface layer	2025/1/31				Sunny	6.9	4.8	12.8	0.5	Deep green	None	>4.8	32.4	2	1.2	< 0.55	< 0.67			
Deep layer								12.9	3.8	-	None		34.0	2	0.8	< 0.64	< 0.61			
77	Offshore of Tonegawa River Estuary	Surface layer	2024/5/16	Light Rain	18.8	6.3	19.8	0.5	Deep yellow green	None	1.5	3.7	10	5.5	< 0.64	< 0.66				
		Deep layer					15.1	5.3	-	None		34.1	6	1.0	< 0.62	< 0.68				
		Surface layer	2024/8/8	Sunny	30.1	6.0	29.9	0.5	Deep yellow green	None	0.5	15.4	10	9.7	< 0.32	< 0.63				
		Deep layer					28.0	5.0	-	None		32.4	4	2.7	< 0.65	< 0.58				
		Surface layer	2024/11/26	Cloudy	15.8	6.1	13.9	0.5	Deep green	None	2.5	10.7	1	2.4	< 0.52	< 0.58				
		Deep layer					18.4	5.1	-	None		33.0	<1	0.8	< 0.63	< 0.45				
		Surface layer	2025/1/24	Cloudy	12.7	5.7	11.7	0.5	Deep yellowish green	None	2.5	24.1	3	1.3	< 0.50	< 0.51				
		Deep layer					13.5	4.7	-	None		33.4	2	0.9	< 0.47	< 0.51				

Ibaraki Coastal(Sediment) 1/1

No.	Location		Sampling Date	Weather	Air temperature (C)	Water depth (m)	Sediment																	Remarks		
	Water Area	Sediment temperature (C)					General items														Activity concentration [Bq/kg(dry)]					
							Sample length (cm)	Color	Odor	Grain size distribution(%)								Sediment content (%)	Density (Mg/m ³)	Property	Radioactive cesium					
										Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt	clay				Cs-134	Cs-137	Total			
73	Offshore of Satone River Estuary		2024/5/15	Sunny	20.6	11.5	15.4	4	Grayish olive	None	0.0	0.0	0.0	0.4	9.4	81.9	5.6	2.7	74.9	2.70	sand	<	4.1	9.5 ± 1.7	9.5	
			2024/8/7	Cloudy	26.3	11.5	22.8	3	Dark olive	None	0.0	0.0	0.0	0.6	12.3	78.4	2.8	5.9	76.8	2.71	sand	<	5.5	7.9 ± 2.0	7.9	
			2024/11/14	Sunny	18.0	12.3	20.4	4	Grayish olive	None	0.0	0.0	0.1	0.2	7.5	81.9	6.2	4.1	77.7	2.73	sand	<	4.5	8.7 ± 1.7	8.7	
	74	Offshore of Okita River Estuary		2025/1/31	Sunny	10.3	11.7	13.1	3	Grayish olive	None	0.0	0.0	0.0	0.6	10.9	82.2	3.9	2.4	78.3	2.75	sand	<	4.4	7.1 ± 1.7	7.1
				2024/5/15	Sunny	23.2	10.8	16.2	4	Grayish olive	None	0.0	0.0	0.1	0.1	6.1	84.0	6.1	3.6	75.7	2.74	sand	<	1.4	4.5 ± 0.53	4.5
				2024/8/7	Sunny	26.5	10.6	23.3	6	Grayish olive	None	0.0	0.0	0.0	0.4	8.0	79.1	5.5	7.0	78.8	2.72	sand	<	1.9	2.7 ± 0.64	2.7
				2024/11/14	Sunny	18.0	11.7	19.8	3	Grayish olive	None	0.0	0.0	0.2	0.1	10.7	75.7	7.2	6.1	75.2	2.74	sand	<	2.1	6.0 ± 0.80	6.0
				2025/1/31	Sunny	10.3	11.2	13.2	4	Grayish olive	None	0.0	0.0	0.0	0.2	11.8	76.9	6.1	5.0	78.3	2.78	sand	<	1.8	3.3 ± 0.66	3.3
				2024/5/15	Sunny	18.6	8.1	16.3	3	Grayish olive	None	0.0	0.0	0.1	0.1	5.2	78.4	8.6	7.6	76.0	2.68	sand	<	1.5	5.3 ± 0.64	5.3
	75	Offshore of Momiya River/Kujigawa River Estuaries		2024/8/7	Cloudy	26.0	8.7	25.8	4	Dark olive	None	0.0	0.0	0.0	0.1	8.7	83.6	1.9	5.7	76.5	2.69	sand	<	2.3	3.5 ± 0.87	3.5
				2024/11/14	Cloudy	17.5	8.7	20.2	5	Grayish olive	None	0.0	0.0	0.0	0.1	46.1	51.0	1.9	0.9	80.2	2.72	sand	<	2.3	5.2 ± 0.89	5.2
				2025/1/31	Sunny	7.1	9.0	12.8	7	Olive black	None	0.0	0.0	0.0	0.1	2.1	75.0	12.8	10.0	76.7	2.72	sand	<	2.7	6.4 ± 1.1	6.4
2024/5/15				Sunny	18.3	6.6	17.0	5	Dark olive	None	0.0	0.0	0.1	3.0	49.3	44.8	1.9	0.9	80.1	2.73	sand	<	0.65	2.8 ± 0.25	2.8	
76	Neighboring water body of Ken-o Offshore of Nakagawa River		2024/8/7	Cloudy	26.0	4.5	26.3	6	Grayish olive	None	0.0	0.1	0.0	0.1	23.4	75.0	0.7	0.7	81.1	2.75	sand	<	0.94	2.4 ± 0.43	2.4	
			2024/11/14	Sunny	17.8	4.5	19.4	3	Grayish olive	None	0.0	0.0	0.0	0.2	64.2	33.4	1.4	0.8	79.8	2.78	sand	<	0.96	3.1 ± 0.35	3.1	
			2025/1/31	Sunny	6.9	4.8	12.7	5	Grayish olive	None	0.0	0.5	0.4	1.0	51.2	45.1	1.0	0.8	79.3	2.77	sand	<	0.96	2.4 ± 0.42	2.4	
			2024/5/16	Light Rain	18.8	6.3	16.3	3	Dark olive	None	0.0	0.0	0.2	0.2	4.6	88.7	4.9	1.4	79.4	2.70	sand	<	0.64	1.3 ± 0.21	1.3	
			2024/8/8	Sunny	30.1	6.0	27.6	2	Dark olive	None	0.0	0.0	0.0	0.1	4.0	91.2	2.0	2.7	77.5	2.71	sand	<	0.99	<	0.96	-
77	Offshore of Tonegawa River Estuary		2024/11/26	Cloudy	15.8	6.1	18.3	4	Dark olive	None	0.0	0.0	0.0	0.1	4.2	90.7	2.5	2.5	79.1	2.75	sand	<	0.81	0.93 ± 0.26	0.93	
			2025/1/24	Cloudy	12.7	5.7	13.8	3	Grayish olive	None	0.0	0.0	0.1	0.3	3.8	91.9	2.7	1.2	76.6	2.78	sand	<	1.0	<	0.79	-

