

FY2024 Tochigi 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

(2) Sediments

Rivers

Cs-134: ND at all measurement points

Cs-137: 1.4 - 96 Bq/kg (dry)

Lakes and reservoirs

Cs-134: ND - 13 Bq/kg (dry)

Cs-137: 28 - 1,100 Bq/kg (dry)

(3) Surrounding Environment

(a) Soil

Rivers

Cs-134: ND - 68 Bq/kg (dry)

Cs-137: ND - 4,000 Bq/kg (dry)

Lakes and reservoirs

Cs-134: ND - 13 Bq/kg (dry)

Cs-137: 20 - 960 Bq/kg (dry)

(b) Ambient dose rate

Rivers

0.04 - 0.15 μ Sv/h

Lakes and reservoirs

0.05 - 0.12 μ Sv/h

Tochigi River(Water) 1/6

No.	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks
	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)	Cs-134	Cs-137	
1	Nakagawa River	Ikuyobashishita	Nasushiobara City	2024/5/7	Light Rain	15.0	0.3	13.0	0.0	Light grayish yellow green	None	>100	11.3	<1	0.4	< 0.57	< 0.66	
				2024/8/10	Sunny	24.3	0.2	16.8	0.0	Light grayish yellow green	None	>100	16.7	<1	0.2	< 0.75	< 0.68	
2024/11/29				Sunny	6.3	0.3	7.5	0.0	Light grayish yellow green	None	>100	15.1	<1	0.1	< 0.75	< 0.67		
2		Komei Bridge		Nasushiobara City	2025/1/20	Cloudy	4.0	0.3	6.9	0.0	Light grayish yellow green	None	>100	15.2	2	0.5	< 0.65	< 0.70
					2024/5/7	Light Rain	15.0	0.3	12.3	0.0	Light grayish greenish yellow	None	>100	8.8	2	0.8	< 0.56	< 0.81
2024/8/10					Sunny	27.0	0.3	19.6	0.0	Grayish yellow	None	>100	14.9	3	0.8	< 0.65	< 0.84	
3	Takaomata River	Takaomata Bridge	Nasu Town		2024/11/29	Sunny	6.5	0.6	8.1	0.0	Light grayish yellow green	None	>100	12.9	<1	0.3	< 0.75	< 0.73
					2025/1/20	Cloudy	4.0	0.3	5.6	0.0	Light grayish greenish yellow	None	>100	14.8	3	0.6	< 0.82	< 0.75
2024/5/7					Light Rain	16.0	0.3	14.2	0.0	Grayish yellow	None	74	13.5	6	2.0	< 0.75	< 0.88	
4	Yukawa River	Yukawa Bridge		Nasu Town	2024/8/10	Cloudy	27.1	0.2	17.9	0.0	Light grayish greenish yellow	None	>100	17.8	4	0.8	< 0.67	< 0.75
					2024/11/29	Sunny	5.8	0.5	8.6	0.0	Light grayish yellow green	None	>100	16.6	<1	0.2	< 0.72	< 0.59
2025/1/20					Sunny	7.0	0.3	7.4	0.0	Grayish yellow	None	>100	15.6	<1	0.4	< 0.54	< 0.47	
5	Nakagawa River	Kamikuroiso	Nasushiobara City/ Nasu Town		2024/5/7	Light Rain	17.0	0.3	15.7	0.0	Light grayish yellow green	None	75	19.9	6	2.9	< 0.60	< 0.50
					2024/8/10	Sunny	24.9	0.1	21.3	0.0	Light grayish yellow green	None	90	31.6	4	1.5	< 0.85	< 0.72
2024/11/29					Sunny	7.2	0.4	9.3	0.0	Light grayish yellow green	None	93	26.5	3	1.3	< 0.75	< 1.0	
6	Yosasa River	Yosasa Bridge		Nasushiobara City/ Nasu Town	2025/1/20	Sunny	9.0	0.2	8.3	0.0	Light grayish yellow green	None	>100	33.0	3	1.7	< 0.75	< 1.0
					2024/5/8	Cloudy	16.0	0.3	15.6	0.0	Light grayish yellow green	None	>100	15.8	3	1.2	< 0.75	< 0.59
2024/6/26					Sunny	27.8	0.3	24.1	0.0	Light grayish yellow green	None	>100	19.7	4	1.4	< 0.73	< 0.71	
7	Kurokawa River	Shinden Bridge	Nasushiobara City/ Nasu Town		2024/7/31	Sunny	29.9	0.2	25.9	0.0	Light grayish yellow green	None	76	21.9	8	2.2	< 0.97	< 0.64
					2024/8/20	Sunny	25.8	0.2	23.3	0.0	Light grayish yellow green	None	>100	19.4	4	0.6	< 0.73	< 0.76
2024/9/17					Cloudy	21.4	0.2	19.4	0.0	Light grayish yellow green	None	>100	16.3	2	1.0	< 0.71	< 0.81	
8	Yosasa River	Kawada Bridge		Nasushiobara City/ Nasu Town	2024/11/28	Sunny	11.0	0.4	10.2	0.0	Light grayish yellow green	None	>100	16.5	2	0.9	< 0.69	< 0.62
					2025/1/20	Sunny	10.0	0.3	8.4	0.0	Light grayish yellow green	None	>100	18.9	3	1.0	< 0.86	< 0.88
2024/5/8					Sunny	17.0	0.3	15.3	0.0	Grayish yellow	None	>100	12.8	3	1.1	< 0.70	< 0.61	
9	Nakagawa River	Kurobane	Otawara City		2024/8/10	Sunny	28.7	0.2	24.1	0.0	Grayish yellow	None	>100	15.6	2	0.8	< 0.61	< 0.45
					2024/11/28	Sunny	10.2	0.5	9.5	0.0	Light grayish yellow green	None	>100	15.8	<1	0.5	< 0.72	< 0.79
2025/1/20					Sunny	10.0	0.3	8.1	0.0	Grayish yellow	None	>100	16.4	<1	0.4	< 0.87	< 0.64	
10	Matsuba River	Tributary		Otawara City	2024/5/8	Light Rain	15.0	0.4	15.5	0.0	Light grayish yellow green	None	60	8.5	8	2.8	< 0.78	< 0.78
					2024/8/10	Sunny	29.9	0.4	25.4	0.0	Light grayish yellow green	None	>100	11.7	5	1.5	< 0.68	< 0.47
2024/11/28					Sunny	11.6	0.5	11.1	0.0	Light grayish yellow green	None	>100	10.4	3	1.1	< 0.54	< 0.78	
10	Matsuba River	Tributary	Otawara City		2025/1/20	Sunny	10.0	0.2	8.3	0.0	Light grayish yellow green	None	>100	10.4	2	1.6	< 0.66	< 0.81
					2024/5/9	Light Rain	8.0	0.3	12.1	0.0	Light grayish yellow green	None	82	10.1	5	3.0	< 0.82	< 0.68
2024/6/26					Sunny	28.8	0.3	23.9	0.0	Light grayish yellow green	None	87	18.7	2	1.2	< 0.80	< 0.81	
10	Matsuba River	Tributary		Otawara City	2024/7/25	Sunny	31.7	0.3	26.5	0.0	Light grayish yellow green	None	91	39.8	2	1.2	< 0.81	< 0.71
					2024/8/10	Sunny	28.3	0.2	24.1	0.0	Light grayish yellow green	None	>100	12.6	4	1.3	< 0.70	< 0.61
2024/9/17					Cloudy	23.7	0.2	24.0	0.0	Light grayish yellow green	None	>100	26.2	5	1.7	< 0.54	< 0.69	
10	Matsuba River	Tributary	Otawara City		2024/11/28	Sunny	11.7	0.5	12.1	0.0	Grayish yellow green	None	>100	40.7	2	0.7	< 0.72	< 0.88
					2025/1/20	Sunny	10.0	0.2	7.2	0.0	Light grayish yellow green	None	>100	12.0	<1	0.8	< 0.57	< 0.61
2024/5/9					Light Rain	10.0	0.4	14.3	0.0	Light grayish yellow green	None	87	12.2	5	1.4	< 0.58	< 0.65	
10	Matsuba River	Tributary		Otawara City	2024/6/27	Sunny	24.3	0.2	22.9	0.0	Light grayish yellow green	None	>100	15.7	<1	1.0	< 0.66	< 0.81
					2024/7/25	Sunny	33.7	0.3	27.2	0.0	Light grayish yellow green	None	92	15.5	2	1.3	< 0.71	< 0.68
2024/8/10					Sunny	27.2	0.2	23.6	0.0	Light grayish yellow green	None	>100	16.2	4	1.2	< 0.80	< 0.75	
10	Matsuba River	Tributary	Otawara City		2024/9/17	Sunny	28.1	0.3	26.1	0.0	Light grayish yellow green	None	>100	13.3	4	1.5	< 0.71	< 0.64
					2024/11/28	Sunny	19.6	0.5	13.4	0.0	Light grayish yellow green	None	>100	14.9	2	0.9	< 0.66	< 0.73
2025/1/21					Sunny	10.0	0.2	9.0	0.0	Light grayish yellow green	None	>100	16.2	<1	1.1	< 0.70	< 0.88	
10	Matsuba River	Tributary		Otawara City	2024/5/9	Cloudy	12.0	0.3	14.5	0.0	Light grayish yellow green	None	65	8.8	5	1.5	< 0.64	< 0.76
					2024/6/27	Cloudy	27.1	0.2	20.9	0.0	Light grayish yellow green	None	>100	11.0	2	1.1	< 0.82	< 0.80
2024/7/25					Sunny	33.2	0.4	24.5	0.0	Light grayish yellow green	None	>100	9.6	2	0.9	< 0.65	< 0.94	
10	Matsuba River	Tributary	Otawara City		2024/8/10	Sunny	29.9	0.2	22.2	0.0	Light grayish yellow green	None	>100	8.9	5	1.0	< 0.64	< 0.52
					2024/9/17	Sunny	28.6	0.3	26.8	0.0	Light grayish yellow green	None	>100	7.6	7	1.8	< 0.71	< 0.69
2024/11/28					Sunny	13.2	0.4	11.5	0.0	Light grayish yellow green	None	>100	9.3	<1	0.8	< 0.79	< 0.70	
10	Matsuba River	Tributary		Otawara City	2025/1/21	Sunny	8.0	0.2	7.4	0.0	Light grayish yellow green	None	>100	9.0	<1	0.6	< 0.78	< 0.76

Tochigi River(Water) 2/6

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)	Cs-134	Cs-137			
Nakagawa River System	11	Sabigawa River	Udagawa Bridge	Otawara City	2024/5/9	Sunny	15.0	0.2	16.7	0.0	Light grayish yellow green	None	75	10.6	3	0.9	< 0.71	< 0.78			
					2024/8/9	Sunny	34.3	0.4	23.5	0.0	Light grayish yellow green	None	>100	14.7	2	0.5	< 0.70	< 0.74			
					2024/11/28	Sunny	18.5	0.4	15.4	0.0	Light grayish yellow green	None	>100	13.9	<1	0.5	< 0.78	< 0.69			
		12	Momura River		Momuranaka Bridge	Otawara City	2025/1/21	Sunny	12.0	0.3	12.6	0.0	Light grayish yellow green	None	>100	13.4	6	1.8	< 0.63	< 0.58	
							2024/5/10	Sunny	23.3	0.3	17.5	0.0	Light grayish yellow green	None	>100	17.9	3	1.0	< 0.81	< 0.75	
							2024/8/9	Sunny	31.2	0.3	21.1	0.0	Light grayish yellow green	None	>100	17.1	2	0.4	< 0.78	< 0.75	
	13		Hokigawa River	Yunohara	Nasushiobara City		2024/11/28	Sunny	19.2	0.4	17.0	0.0	Light grayish yellow green	None	>100	18.0	<1	0.4	< 0.64	< 0.73	
							2025/1/22	Sunny	6.0	0.3	10.0	0.0	Light grayish yellow green	None	>100	17.5	5	1.9	< 0.95	< 0.72	
							2024/5/7	Light Rain	17.1	0.4	14.3	0.0	Light grayish yellow green	None	>100	21.7	3	1.4	< 0.57	< 0.50	
		14	Hokigawa River	Sekiba Bridge		Nasushiobara City	2024/8/9	Cloudy	26.4	0.3	20.5	0.0	Light grayish yellow green	None	70	28.1	5	1.2	< 0.85	< 0.82	
							2024/11/29	Sunny	10.2	0.5	9.8	0.0	Light grayish yellow green	None	>100	21.8	<1	0.7	< 0.72	< 0.76	
							2025/1/21	Sunny	3.0	0.3	7.1	0.0	Light grayish yellow green	None	>100	22.9	7	1.7	< 0.67	< 0.56	
	15		Hokigawa River	Iwai Bridge	Otawara City		2024/5/7	Light Rain	19.0	0.7	13.7	0.0	Grayish yellow green	None	81	19.5	3	1.7	< 0.82	< 0.79	
							2024/8/9	Sunny	26.9	0.2	23.1	0.0	Light grayish yellow green	None	>100	23.9	3	1.0	< 0.51	< 0.52	
							2024/11/29	Sunny	12.1	0.4	9.1	0.0	Light grayish yellow green	None	>100	20.2	<1	0.9	< 0.55	< 0.60	
		16	Hokigawa River	Hokigawa Bridge		Otawara City	2025/1/21	Sunny	6.0	0.3	7.5	0.0	Light grayish yellow green	None	>100	22.1	<1	1.2	< 0.80	< 0.90	
							2024/5/7	Light Rain	19.0	0.4	15.4	0.0	Light grayish yellow green	None	57	17.7	5	2.3	< 0.69	< 0.85	
							2024/8/9	Sunny	34.3	0.2	24.1	0.0	Light grayish yellow green	None	>100	18.8	3	0.8	< 0.82	< 0.72	
	17		Nakagawa River	Shinnaka Bridge	Nakagawa Town		2024/11/28	Sunny	19.0	0.6	13.1	0.0	Light grayish yellow green	None	>100	17.2	<1	0.4	< 0.55	< 0.64	
							2025/1/21	Sunny	9.0	0.3	8.6	0.0	Light grayish yellow green	None	>100	19.1	2	1.2	< 0.72	< 0.81	
							2024/5/7	Light Rain	19.6	0.4	16.5	0.0	Light grayish greenish yellow	None	49	15.6	7	2.6	< 0.85	< 0.81	
18		Nakagawa River	Shinnaka Bridge	Nakagawa Town		2024/6/27	Cloudy	29.0	0.3	21.4	0.0	Light grayish yellow green	None	>100	15.6	<1	0.8	< 0.73	< 0.65		
						2024/7/25	Sunny	34.2	0.5	25.8	0.0	Light grayish yellow green	None	94	15.9	3	1.1	< 0.73	< 0.93		
						2024/8/9	Sunny	33.7	0.3	24.4	0.0	Light grayish yellow green	None	>100	17.2	18	2.6	< 0.60	< 0.74		
	19	Mumogawa River	Kosei Bridge		Nakagawa Town	2024/9/17	Sunny	27.8	0.3	23.5	0.0	Light grayish greenish yellow	None	>100	15.3	3	1.3	< 0.75	< 0.82		
						2024/11/27	Sunny	20.3	0.7	15.8	0.0	Grayish yellow green	None	73	16.3	3	1.0	< 0.78	< 0.57		
						2025/1/21	Sunny	10.0	0.3	12.5	0.0	Light grayish yellow green	None	>100	16.6	<1	1.4	< 0.71	< 0.66		
20		Mumogawa River	Kosei Bridge	Nakagawa Town		2024/5/7	Cloudy	21.7	0.2	17.6	0.0	Light grayish yellow green	None	58	16.0	6	2.4	< 0.75	< 0.57		
						2024/6/27	Sunny	30.0	0.2	25.5	0.0	Light grayish yellow green	None	>100	17.8	2	1.3	< 0.53	< 0.56		
						2024/7/25	Sunny	32.8	0.2	27.6	0.0	Light grayish yellow green	None	91	15.8	3	1.5	< 0.71	< 0.72		
	21	Mumogawa River	Kosei Bridge		Nakagawa Town	2024/8/9	Sunny	33.6	0.2	28.5	0.0	Light grayish yellow green	None	>100	16.8	4	1.1	< 0.85	< 0.73		
						2024/9/17	Cloudy	26.7	0.3	25.7	0.0	Light grayish yellow green	None	>100	14.7	4	1.4	< 0.75	< 0.76		
						2024/11/27	Sunny	19.0	0.5	14.5	0.0	Grayish greenish yellow	None	27	15.0	13	2.7	< 0.88	< 0.77		
20		Mumogawa River	Kosei Bridge	Nakagawa Town		2025/1/21	Sunny	10.0	0.2	11.0	0.0	Light grayish yellow green	None	>100	18.4	<1	0.9	< 0.75	< 0.62		
						2024/5/7	Light Rain	21.1	0.2	17.2	0.0	Light grayish yellow green	None	81	11.2	3	1.3	< 0.77	< 0.81		
						2024/6/27	Sunny	31.7	0.3	24.2	0.0	Light grayish greenish yellow	None	>100	11.4	2	1.0	< 0.73	< 0.78		
	19	Arakawa River	Saikachi Bridge		Shioya Town	2024/7/25	Cloudy	31.4	0.3	28.0	0.0	Grayish yellow green	None	78	10.2	3	1.2	< 0.50	< 0.71		
						2024/8/9	Sunny	32.3	0.3	25.7	0.0	Light grayish greenish yellow	None	20	8.4	15	2.9	< 0.75	< 0.85		
						2024/9/17	Sunny	28.8	0.2	24.5	0.0	Light grayish greenish yellow	None	>100	8.1	7	2.7	< 0.54	< 0.57		
20		Arakawa River	Renjo Bridge	Sakura City		2024/11/27	Sunny	19.0	0.4	12.1	0.0	Grayish yellow green	None	36	9.5	6	3.0	< 0.72	< 0.73		
						2025/1/22	Sunny	11.0	0.2	6.0	0.0	Light grayish greenish yellow	None	>100	11.5	<1	0.5	< 0.87	< 0.64		
						2024/5/8	Sunny	17.6	0.3	14.6	0.0	Light grayish greenish yellow	None	>100	6.2	2	1.5	< 0.78	< 0.76		
	21	Uchikawa River	Tanaka Bridge		Yaita City	2024/8/8	Sunny	32.1	0.3	21.7	0.0	Light grayish greenish yellow	None	>100	7.8	4	0.8	< 0.82	< 0.79		
						2024/11/28	Sunny	16.6	0.4	11.7	0.0	Light grayish yellow	None	>100	7.0	<1	0.6	< 0.82	< 0.80		
						2025/1/22	Sunny	8.0	0.3	8.8	0.0	Light grayish greenish yellow	None	>100	6.8	<1	0.9	< 0.60	< 0.54		
20		Uchikawa River	Tanaka Bridge	Yaita City		2024/5/8	Cloudy	21.7	0.2	16.5	0.0	Light grayish greenish yellow	None	>100	10.3	2	1.8	< 0.69	< 0.72		
						2024/8/8	Sunny	35.4	0.5	23.1	0.0	Light grayish greenish yellow	None	>100	13.4	2	0.9	< 0.54	< 0.50		
						2024/11/27	Cloudy	17.2	0.3	15.5	0.0	Light grayish yellow green	None	>100	11.3	3	1.2	< 0.67	< 0.72		
	21	Uchikawa River	Tanaka Bridge		Yaita City	2025/1/22	Sunny	11.0	0.2	11.0	0.0	Light grayish greenish yellow	None	>100	12.8	<1	0.6	< 0.81	< 0.76		
						2024/5/8	Cloudy	19.7	0.4	16.6	0.0	Light grayish greenish yellow	None	50	12.7	10	5.8	< 0.65	< 0.81		
						2024/8/8	Sunny	35.0	0.2	23.9	0.0	Light grayish greenish yellow	None	>100	15.3	3	1.1	< 0.70	< 0.75		
21		Uchikawa River	Tanaka Bridge	Yaita City		2024/11/28	Sunny	18.0	0.4	13.3	0.0	Light grayish yellow	None	92	10.3	2	1.4	< 0.60	< 0.70		
						2025/1/22	Sunny	10.0	0.2	10.0	0.0	Light grayish greenish yellow	None	>100	10.9	2	2.4	< 0.79	< 0.69		

Tochigi River(Water) 4/6

No.	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks
	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)	Cs-134	Cs-137		
33	Daiya River	Kaishin Bridge (Harigai)	Nikko City	2024/5/8	Cloudy	19.0	0.3	15.2	0.0	Light grayish yellow green	None	>100	11.6	2	0.3	< 0.74	< 0.83		
				2024/6/28	Light Rain	22.3	0.3	13.9	0.0	Light grayish yellow	None	>100	11.1	<1	0.4	< 0.63	< 0.57		
				2024/7/31	Sunny	27.8	0.4	16.7	0.0	Light grayish yellow green	None	>100	12.2	<1	0.9	< 0.76	< 0.69		
				2024/8/19	Sunny	28.1	0.2	16.7	0.0	Light grayish greenish yellow	None	>100	10.2	4	0.5	< 0.76	< 0.91		
				2024/9/18	Sunny	28.2	0.2	21.0	0.0	Light grayish yellow green	None	>100	9.5	6	1.3	< 0.75	< 0.72		
				2024/11/28	Sunny	14.0	0.4	8.5	0.0	Light grayish yellow green	None	>100	11.5	2	0.3	< 0.71	< 0.85		
	34	Kinugawa River	Sanuki	Shioya Town	2025/1/23	Sunny	7.8	0.3	8.2	0.0	Light grayish yellow green	None	>100	11.8	<1	0.4	< 0.59	< 0.65	
					2024/5/8	Cloudy	19.4	0.5	12.5	0.0	Light grayish greenish yellow	None	>100	9.2	2	1.0	< 0.81	< 0.70	
					2024/6/28	Cloudy	22.8	0.4	18.0	0.0	Light grayish greenish yellow	None	>100	9.0	<1	0.8	< 0.77	< 0.73	
					2024/7/31	Sunny	29.5	0.3	21.6	0.0	Light grayish greenish yellow	None	>100	10.3	<1	1.4	< 0.62	< 0.66	
					2024/8/19	Sunny	32.5	0.2	26.3	0.0	Light grayish greenish yellow	None	70	9.7	5	2.2	< 0.71	< 0.78	
					2024/9/18	Sunny	27.6	0.3	21.3	0.0	Light grayish greenish yellow	None	>100	9.3	2	1.1	< 0.62	< 0.66	
	35	Nishi-Kinugawa River	Nishi-Kinugawa Bridge	Utsunomiya City	2024/11/28	Sunny	13.9	0.4	10.7	0.0	Light grayish yellow green	None	95	11.2	<1	1.0	< 0.78	< 0.73	
					2025/1/23	Sunny	10.7	0.1	7.8	0.0	Light grayish greenish yellow	None	>100	12.4	<1	0.7	< 0.65	< 0.77	
					2024/5/8	Cloudy	21.3	0.4	14.2	0.0	Light grayish yellow green	None	96	9.9	9	0.8	< 0.69	< 0.78	
					2024/8/8	Cloudy	32.0	0.5	21.7	0.0	Light grayish yellow green	None	90	10.5	7	2.0	< 0.73	< 0.75	
	36	Kinugawa River	Kinugawa Bridge (Hoshakuji Temple)	Utsunomiya City	2024/11/27	Cloudy	17.0	0.8	12.3	0.0	Grayish yellow green	None	79	10.3	4	0.9	< 0.69	< 0.84	
					2025/1/23	Sunny	10.8	0.3	7.4	0.0	Light grayish yellow green	None	>100	12.2	<1	0.6	< 0.74	< 0.84	
					2024/5/8	Cloudy	22.2	0.3	16.6	0.0	Light grayish yellow green	None	>100	9.6	5	1.5	< 0.79	< 0.70	
	37	Kinugawa River	Daidoizumi Bridge	Mooka City	2024/8/8	Sunny	33.7	0.3	24.1	0.0	Light grayish yellow green	None	65	11.1	6	1.0	< 0.72	< 0.76	
2024/5/9					Sunny	19.6	0.9	18.0	0.0	Light grayish yellow green	None	71	13.4	5	0.8	< 0.80	< 0.69		
2024/8/8					Sunny	35.8	1.0	27.2	0.0	Light grayish yellow green	None	30	14.3	10	2.3	< 0.68	< 0.82		
2024/11/26					Cloudy	14.4	0.7	12.9	0.0	Grayish yellow green	None	>100	16.7	2	0.5	< 0.72	< 0.85		
38	Egawa River	Tributary	Shimotsuke City	2025/1/21	Sunny	8.8	0.6	11.2	0.0	Light grayish yellow green	None	73	18.3	6	2.2	< 0.66	< 0.91		
				2024/5/9	Sunny	19.7	0.6	14.8	0.0	Light grayish greenish yellow	None	84	19.6	5	1.0	< 0.72	< 0.59		
				2024/6/28	Light Rain	27.4	0.7	20.6	0.0	Light grayish greenish yellow	None	68	16.0	5	1.7	< 0.80	< 0.81		
				2024/7/30	Sunny	37.2	0.5	26.0	0.0	Light grayish greenish yellow	None	94	15.8	7	1.4	< 0.88	< 0.62		
				2024/8/19	Sunny	33.3	0.2	25.0	0.0	Light grayish greenish yellow	None	22	12.9	10	0.6	< 0.58	< 0.42		
				2024/9/17	Sunny	32.8	0.2	30.4	0.0	Light grayish greenish yellow	None	45	19.8	48	8.8	< 0.75	< 0.75		
39	Akabori River	Nikko City Hall, front	Nikko City	2024/11/26	Cloudy	15.3	0.3	13.1	0.0	Light grayish yellow	None	>100	22.2	3	0.7	< 0.69	< 0.88		
				2025/1/21	Sunny	11.2	0.2	13.1	0.0	Light grayish greenish yellow	None	>100	20.8	4	3.0	< 0.60	< 0.56		
				2024/5/9	Cloudy	11.3	0.2	11.0	0.0	Light grayish greenish yellow	None	>100	10.7	<1	0.3	< 0.53	< 0.50		
				2024/8/8	Sunny	29.1	0.2	21.3	0.0	Light grayish greenish yellow	None	>100	11.5	2	0.5	< 0.56	< 0.52		
				2024/11/28	Sunny	8.4	0.2	8.1	0.0	Light grayish yellow green	None	>100	11.6	<1	0.3	< 0.79	< 0.85		
40	Akabori River	Kiwadajima	Nikko City	2025/1/23	Sunny	7.3	0.2	6.8	0.0	Light grayish greenish yellow	None	>100	11.6	<1	0.4	< 0.80	< 0.75		
				2024/5/9	Sunny	15.8	0.2	14.6	0.0	Light grayish greenish yellow	None	>100	12.6	4	1.0	< 0.77	< 0.77		
				2024/8/8	Sunny	32.2	0.2	20.1	0.0	Light grayish greenish yellow	None	>100	14.2	3	0.5	< 0.50	< 0.61		
				2024/11/28	Sunny	5.6	0.3	11.0	0.0	Light grayish yellow green	None	>100	14.9	<1	0.3	< 0.55	< 0.75		
41	Tagawa River	Ozobashi Bridge	Utsunomiya City	2025/1/23	Sunny	5.8	0.1	9.9	0.0	Light grayish greenish yellow	None	>100	14.8	<1	0.4	< 0.84	< 0.59		
				2024/5/8	Light Rain	18.3	0.7	17.6	0.0	Light grayish yellow	None	41	12.9	8	1.4	< 0.68	< 0.78		
				2024/6/28	Light Rain	24.5	0.7	20.1	0.0	Light grayish yellow	None	>100	12.7	4	1.6	< 0.78	< 0.85		
				2024/7/31	Sunny	34.5	0.2	26.3	0.0	Light grayish yellow	None	>100	14.4	3	1.0	< 0.63	< 0.72		
				2024/8/20	Sunny	26.4	0.2	23.9	0.0	Light grayish yellow	None	>100	13.9	6	1.8	< 0.86	< 0.76		
				2024/9/18	Sunny	29.6	0.3	23.5	0.0	Light grayish yellow	None	>100	12.0	4	1.6	< 0.75	< 0.76		
42	Kamagawa River	Tsukushi Bridge	Utsunomiya City	2024/11/27	Cloudy	16.1	0.6	14.1	0.0	Grayish yellow	None	22	12.8	37	6.4	< 0.48	< 0.92		
				2025/1/22	Sunny	11.9	0.3	13.2	0.0	Light grayish yellow	None	33	15.1	18	11	< 0.66	< 0.54		
				2024/5/9	Cloudy	10.4	0.3	14.8	0.0	Light grayish yellow green	None	68	15.3	9	1.8	< 0.74	< 0.64		
				2024/8/9	Sunny	29.4	0.1	28.2	0.0	Light grayish yellow green	None	>100	16.8	3	0.8	< 0.64	< 0.86		
42	Kamagawa River	Tsukushi Bridge	Utsunomiya City	2024/11/27	Cloudy	15.4	0.3	14.2	0.0	Light grayish greenish yellow	None	23	12.7	20	4.0	< 0.72	< 0.69		
				2025/1/22	Sunny	10.4	0.2	13.9	0.0	Light grayish yellow green	None	>100	17.7	4	1.5	< 0.97	< 0.68		

Tochigi River(Water) 5/6

No.	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks	
	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			
43	Kinugawa River System	Tagawa River	Meiji Bridge	Kaminokawa Town	2024/5/9	Sunny	19.6	0.5	17.4	0.0	Grayish yellow	None	22	15.6	20	3.5	< 0.81	< 1.0		
					2024/8/8	Sunny	33.7	0.3	27.3	0.0	Light grayish yellow	None	45	18.0	5	1.5	< 0.79	< 0.79		
2024/11/26					Cloudy	15.0	0.3	14.4	0.0	Light grayish yellow	None	83	21.6	5	1.0	< 0.76	< 0.85			
44		Yanabashi Bridge	Oyama City	2025/1/22	Sunny	5.3	0.2	10.9	0.0	Light grayish yellow	None	>100	27.9	5	1.7	< 0.90	< 0.85			
				2024/5/10	Sunny	17.5	0.9	17.4	0.0	Light grayish yellow	None	28	18.4	22	4.2	< 0.88	< 0.69			
				2024/8/8	Sunny	33.4	0.5	28.3	0.0	Light grayish yellow	None	26	23.3	21	5.2	< 0.43	< 0.56			
45	Kurokawa River	Kaijima Bridge	Kanuma City	2024/11/20	Cloudy	5.6	0.8	12.7	0.0	Grayish yellow green	None	36	23.7	5	1.3	< 0.55	< 0.56			
				2025/1/21	Sunny	10.7	0.7	13.4	0.0	Light grayish yellow	None	>100	30.0	6	2.3	< 0.59	< 0.83			
				2024/5/10	Sunny	13.5	0.3	14.6	0.0	Light grayish yellow green	None	>100	9.0	2	0.7	< 0.53	< 0.77			
				2024/8/9	Sunny	34.2	0.4	23.5	0.0	Light grayish yellow green	None	36	5.9	16	1.7	< 0.95	< 0.72			
				2024/11/27	Cloudy	13.2	0.3	11.8	0.0	Light grayish yellow	None	91	8.9	6	1.1	< 0.81	< 0.91			
46		Onari Bridge	Mibu Town	2025/1/22	Sunny	9.4	0.2	11.2	0.0	Light grayish yellow green	None	>100	9.7	2	0.7	< 0.53	< 0.61			
				2024/5/9	Cloudy	18.2	0.6	16.8	0.0	Light grayish yellow	None	61	13.8	10	1.6	< 0.85	< 0.73			
				2024/8/9	Sunny	28.9	0.6	23.7	0.0	Light grayish greenish yellow	None	12	10.0	100	19	< 0.56	< 0.66			
				2024/11/26	Cloudy	15.5	0.3	14.2	0.0	Light grayish yellow green	None	>100	16.7	3	0.7	< 0.69	< 0.85			
47		Oashi River	Akaishi Bridge	Kanuma City	2025/1/22	Sunny	7.6	0.2	13.9	0.0	Light grayish greenish yellow	None	>100	19.4	2	0.9	< 0.71	< 0.73		
	2024/5/10				Sunny	22.7	0.2	17.3	0.0	Light grayish yellow green	None	78	6.7	4	0.9	< 0.87	< 0.68			
	2024/8/9				Sunny	32.8	0.3	23.9	0.0	Light grayish yellow green	None	55	6.1	6	1.1	< 0.70	< 0.62			
	2024/11/27				Cloudy	14.9	0.3	12.9	0.0	Light grayish yellow green	None	>100	6.8	3	0.7	< 0.62	< 0.66			
48	Koyabu River	Koyabu Bridge	Kanuma City	2025/1/22	Sunny	9.3	0.2	11.1	0.0	Light grayish yellow green	None	>100	7.2	<1	0.3	< 0.85	< 0.82			
				2024/5/10	Sunny	21.0	0.2	18.2	0.0	Light grayish yellow	None	22	16.2	16	5.6	< 0.63	< 0.54			
				2024/8/9	Sunny	35.4	0.3	30.0	0.0	Light grayish yellow	None	89	16.5	5	1.3	< 0.79	< 0.76			
				2024/11/27	Cloudy	16.9	0.2	12.3	0.0	Grayish yellow	None	16	12.4	17	6.8	< 0.85	< 0.85			
49	Omoi River	Tamotsu Bridge	Tochigi City	2025/1/22	Sunny	10.2	0.2	8.5	0.0	Light grayish yellow	None	>100	16.6	<1	1.2	< 0.71	< 0.60			
				2024/5/9	Cloudy	16.6	0.3	16.1	0.0	Light grayish yellow green	None	86	11.9	7	0.8	< 0.79	< 0.79			
				2024/8/9	Sunny	31.9	0.5	23.7	0.0	Light grayish yellow green	None	17	7.5	23	5.2	< 0.60	< 0.68			
				2024/11/26	Cloudy	17.8	0.3	15.2	0.0	Light grayish yellow	None	>100	11.5	<1	0.3	< 0.88	< 0.88			
				2025/1/22	Sunny	9.7	0.1	10.3	0.0	Light grayish yellow green	None	>100	14.1	<1	0.3	< 0.86	< 0.76			
50		Otomehashi Bridge	Oyama City	2024/5/17	Sunny	31.0	0.4	21.6	0.0	Light grayish yellow green	None	31	15.4	10	2.0	< 0.87	< 0.75			
				2024/6/28	Cloudy	23.5	0.6	22.8	0.0	Light grayish yellow green	None	68	14.3	14	3.0	< 0.79	< 0.88			
				2024/7/30	Cloudy	38.1	0.3	30.3	0.0	Light grayish yellow	None	96	15.8	5	0.9	< 0.81	< 0.68			
				2024/8/19	Sunny	30.3	0.5	25.3	0.0	Light grayish yellow green	None	48	14.7	34	6.2	< 0.76	< 0.63			
				2024/9/18	Sunny	32.7	0.3	28.1	0.0	Light grayish yellow green	None	55	12.4	20	5.1	< 0.81	< 0.76			
	2024/11/20			Cloudy	11.1	0.3	12.5	0.0	Light grayish yellow green	None	>100	17.8	5	0.8	< 0.74	< 0.59				
	2025/1/21			Sunny	10.3	0.2	12.6	0.0	Light grayish yellow green	None	>100	21.5	3	1.5	< 0.68	< 0.81				
51	Uzuma River	Uzuma Bridge	Tochigi City	2024/5/17	Sunny	30.5	0.9	20.7	0.0	Light grayish greenish yellow	None	29	22.0	21	5.0	< 0.60	< 0.61			
				2024/6/28	Light Rain	23.5	0.8	22.1	0.0	Light grayish yellow	None	22	24.0	32	11	< 0.60	< 0.66			
				2024/7/30	Sunny	34.6	0.7	30.3	0.0	Grayish yellow green	None	34	25.5	11	2.0	< 0.69	< 0.67			
				2024/8/19	Sunny	30.5	1.0	26.6	0.0	Light grayish greenish yellow	None	15	19.7	30	4.3	< 0.60	< 0.79			
				2024/9/18	Cloudy	32.1	0.4	29.9	0.0	Light grayish greenish yellow	None	25	21.4	26	6.5	< 0.39	< 0.66			
				2024/11/20	Cloudy	8.5	0.8	12.5	0.0	Grayish yellow green	None	68	24.9	4	1.4	< 0.89	< 0.76			
				2025/1/21	Sunny	8.9	0.6	13.9	0.0	Light grayish greenish yellow	None	63	28.7	7	2.8	< 0.80	< 0.73			
52	Watarase River	Watarase River intake weir at Sori Power Station	Nikko City	2024/5/29	Sunny	23.0	0.3	15.0	0.0	Light grayish yellow green	None	>100	6.2	<1	0.6	< 0.79	< 0.76			
				2024/6/27	Cloudy	28.7	0.5	17.5	0.0	Light grayish yellow green	None	>100	8.2	<1	0.1	< 0.73	< 0.78			
				2024/7/19	Cloudy	25.0	0.4	17.4	0.0	Grayish yellow green	None	>100	5.8	<1	0.3	< 0.74	< 0.81			
				2024/8/8	Sunny	29.4	0.2	20.3	0.0	Light grayish yellow green	None	90	6.3	7	1.0	< 0.68	< 0.77			
				2024/9/18	Sunny	28.5	0.2	19.4	0.0	Light grayish yellow green	None	>100	8.3	<1	0.3	< 0.64	< 0.66			
				2024/11/26	Cloudy	11.2	0.3	8.6	0.0	Light grayish yellowish green	None	>100	19.2	<1	0.1	< 0.74	< 0.88			
				2025/1/20	Sunny	7.1	0.3	4.5	0.0	Light grayish yellow green	None	>100	15.8	<1	0.1	< 0.61	< 0.54			
53	Hajika Bridge	Ashikaga City	2024/5/16	Cloudy	20.8	0.4	17.1	0.0	Light grayish yellow green	None	>100	10.1	2	0.8	< 0.57	< 0.88				
			2024/8/7	Sunny	30.4	0.2	28.9	0.0	Light grayish yellow green	None	>100	11.7	6	3.0	< 0.57	< 0.62				
			2024/11/23	Sunny	15.5	0.6	13.1	0.0	Light grayish yellow green	None	>100	12.4	<1	0.6	< 0.61	< 0.61				
			2025/1/21	Sunny	7.2	0.2	7.5	0.0	Light grayish yellow green	None	>100	13.1	<1	0.5	< 0.47	< 0.66				

Tochigi River (Sediment) 1/5

Rivers	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment temperature (°C)	Sediment																	Remarks		
	No.	Water Area	Location	Municipality						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			
Nakagawa River System	1	Nakagawa River	Ikuyobashishita	Nasushiobara City	2024/5/7	Light Rain	15.0	0.3	13.3	3	Dark olive	None	0.0	1.4	32.0	44.1	19.0	3.0	0.1	0.4	79.5	2.66	sand/gravel	< 6.4	12 ± 2.2	12			
					2024/8/10	Sunny	24.3	0.2	16.3	4	Dark olive	None	0.0	2.7	30.3	41.3	24.9	0.7	0.0	0.1	78.8	2.71	sand/gravel	< 6.2	15 ± 2.6	15			
					2024/11/29	Sunny	6.3	0.3	7.0	2	Olive brown	None	0.0	4.9	61.9	16.2	13.2	3.1	0.3	0.4	81.8	2.70	gravel/sand	< 3.5	12 ± 1.5	12			
					2025/1/20	Cloudy	4.0	0.3	7.0	3	Dark olive	None	0.0	2.7	41.9	36.3	16.6	1.9	0.4	0.2	77.2	2.70	sand/gravel	< 7.1	13 ± 2.4	13			
	2	Nakagawa River	Komei Bridge	Nasushiobara City	2024/5/7	Light Rain	15.0	0.3	12.4	3	Grayish yellow brown	None	0.0	1.9	42.8	26.8	23.6	4.0	0.3	0.6	84.6	2.71	sand/gravel	< 6.2	11 ± 2.4	11			
					2024/8/10	Sunny	27.0	0.3	19.2	5	Brownish black	None	0.0	1.1	40.3	41.9	16.2	0.5	0.0	0.0	82.3	2.74	sand/gravel	< 5.0	12 ± 2.4	12			
	3	Takaomata River	Takaomata Bridge	Nasu Town	2024/11/29	Sunny	6.5	0.6	7.8	3	Grayish yellow brown	None	0.0	3.3	49.1	21.2	18.5	6.4	0.8	0.7	81.8	2.73	gravel/sand	< 3.0	16 ± 1.6	16			
					2025/1/20	Cloudy	4.0	0.3	8.0	2	Brown	None	0.0	0.1	10.1	55.7	29.6	3.8	0.4	0.3	72.9	2.70	sand/gravel	< 5.9	20 ± 3.0	20			
					2024/5/7	Light Rain	16.0	0.3	13.5	3	Brownish black	None	0.0	2.1	49.4	33.5	13.4	1.2	0.1	0.3	81.6	2.79	sand/gravel	< 5.8	11 ± 2.1	11			
	4	Yukawa River	Yukawa Bridge	Nasu Town	2024/8/10	Cloudy	27.1	0.2	17.5	4	Brown	None	0.0	0.0	4.6	22.6	60.2	11.6	0.4	0.6	69.0	2.76	sand/gravel	< 8.2	27 ± 3.7	27			
					2024/11/29	Sunny	5.8	0.5	8.2	3	Brownish black	None	0.0	0.9	36.7	38.4	20.1	3.2	0.4	0.3	83.8	2.80	gravel/sand	< 4.0	13 ± 1.6	13			
					2025/1/20	Sunny	7.0	0.3	8.0	4	Brownish black	None	0.0	2.4	43.8	28.8	21.3	3.1	0.3	0.3	79.8	2.85	sand/gravel	< 6.2	11 ± 2.3	11			
	5	Nakagawa River	Kamikuroiso	Nasushiobara City/ Nasu Town	2024/5/7	Light Rain	17.0	0.3	15.5	3	Dark brown	None	0.0	2.5	39.6	34.0	22.4	1.2	0.1	0.2	80.4	2.85	sand/gravel	< 6.4	17 ± 2.7	17			
					2024/8/10	Sunny	24.9	0.1	20.6	3	Dark brown	None	0.0	2.7	48.0	35.5	13.3	0.5	0.0	0.0	83.7	2.74	gravel/sand	< 6.6	12 ± 2.4	12			
					2024/11/29	Sunny	7.2	0.4	9.0	3	Dark brown	None	0.0	1.0	14.5	31.0	48.2	5.0	0.1	0.2	73.1	2.83	sand/gravel	< 4.3	12 ± 2.1	12			
	6	Yosasa River	Yosasa Bridge	Nasu Town	2025/1/20	Sunny	9.0	0.2	9.0	3	Dark brown	None	0.0	3.5	50.0	29.2	16.5	0.6	0.1	0.1	80.4	2.82	gravel/sand	< 5.9	11 ± 2.8	11			
					2024/5/8	Cloudy	16.0	0.3	15.5	3	Olive brown	None	0.0	0.5	54.1	34.8	8.9	1.5	0.1	0.1	85.2	2.69	gravel/sand	< 4.7	23 ± 2.8	23			
					2024/6/26	Sunny	27.8	0.3	23.9	3	Olive brown	None	0.0	0.6	39.9	31.5	23.2	4.4	0.2	0.2	82.8	2.72	sand/gravel	< 6.0	35 ± 3.7	35			
					2024/7/31	Sunny	29.9	0.2	25.9	3	Olive brown	None	0.0	1.3	41.2	35.2	20.3	1.9	0.0	0.1	89.5	2.74	sand/gravel	< 4.3	27 ± 3.2	27			
					2024/8/20	Sunny	25.8	0.2	23.3	3	Olive brown	None	0.0	1.0	33.5	33.4	24.6	6.6	0.4	0.5	81.1	2.71	sand/gravel	< 6.1	46 ± 4.3	46			
	7	Kurokawa River	Shinden Bridge	Nasu Town	2024/9/17	Cloudy	21.4	0.2	19.1	3	Olive brown	None	0.0	0.2	27.7	46.9	23.2	1.9	0.0	0.1	79.7	2.72	sand/gravel	< 6.2	31 ± 3.7	31			
					2024/11/28	Sunny	11.0	0.4	10.0	4	Brownish black	None	0.0	0.3	10.5	39.2	45.5	4.0	0.2	0.3	75.9	2.71	sand/gravel	< 5.5	58 ± 3.8	58			
					2025/1/20	Sunny	10.0	0.3	9.0	3	Olive brown	None	0.0	0.5	26.8	37.8	31.8	2.7	0.3	0.1	79.7	2.74	sand/gravel	< 7.3	29 ± 3.5	29			
					2024/5/8	Sunny	17.0	0.3	14.7	3	Brownish black	None	0.0	0.8	36.7	41.3	19.6	1.2	0.2	0.2	82.2	2.82	gravel/sand	< 5.4	14 ± 2.6	14			
	8	Yosasa River	Kawada Bridge	Nasu Town	2024/8/10	Sunny	28.7	0.2	23.3	3	Brownish black	None	0.0	3.0	58.3	28.8	9.3	0.5	0.0	0.1	94.3	2.80	sand/gravel	< 7.1	9.5 ± 2.7	9.5			
					2024/11/28	Sunny	10.2	0.5	8.9	3	Brownish black	None	0.0	3.8	43.6	33.3	17.5	1.4	0.2	0.2	80.8	2.81	gravel/sand	< 4.3	16 ± 2.2	16			
					2025/1/20	Sunny	10.0	0.3	9.0	2	Brownish black	None	0.0	1.8	43.5	30.7	22.6	1.2	0.1	0.1	78.9	2.79	gravel/sand	< 4.8	10 ± 2.3	10			
	9	Nakagawa River	Kurobane	Otawara City	2024/5/8	Light Rain	15.0	0.4	15.1	3	Brownish black	None	0.0	0.3	17.5	35.6	40.4	5.0	0.5	0.7	78.0	3.02	sand/gravel	< 4.8	26 ± 2.5	26			
					2024/8/10	Sunny	29.9	0.4	25.6	2	Brownish black	None	0.0	1.5	37.8	24.2	31.3	4.2	0.4	0.6	80.3	2.90	sand/gravel	< 7.5	33 ± 3.9	33			
					2024/11/28	Sunny	11.6	0.5	10.4	4	Brownish black	None	1.5	2.2	25.9	19.1	41.7	7.9	0.6	1.1	77.9	2.96	sand/gravel	< 4.4	45 ± 3.9	45			
	10	Matsuba River	Tributary	Otawara City	2025/1/20	Sunny	10.0	0.2	9.0	3	Brownish black	None	0.0	5.7	48.2	19.9	20.4	4.3	0.7	0.8	78.3	2.77	gravel/sand	< 7.4	35 ± 3.8	35			
					2024/5/9	Light Rain	8.0	0.3	11.6	3	Grayish olive	None	0.0	1.4	51.6	41.5	5.2	0.1	0.1	0.1	87.7	2.73	gravel/sand	< 4.2	27 ± 2.4	27			
					2024/6/26	Sunny	28.8	0.3	23.7	4	Grayish olive	None	0.0	1.1	44.2	42.2	12.4	0.1	0.0	0.0	91.7	2.71	gravel/sand	< 5.8	35 ± 3.6	35			
					2024/7/25	Sunny	31.7	0.3	26.0	3	Dark grayish yellow	Faint fish	0.0	1.2	37.9	40.0	20.6	0.1	0.1	0.1	87.9	2.77	gravel/sand	< 4.3	83 ± 4.5	83			
					2024/8/10	Sunny	28.3	0.2	24.3	4	Grayish olive	None	0.0	0.8	46.3	38.4	14.0	0.3	0.0	0.2	88.6	2.76	gravel/sand	< 6.6	63 ± 5.4	63			
	11	Sabigawa River	Udagawa Bridge	Otawara City	2024/9/17	Cloudy	23.7	0.2	21.2	3	Grayish olive	None	0.0	0.1	4.5	14.8	74.7	5.0	0.6	0.3	75.4	2.74	sand/gravel	< 7.0	96 ± 7.0	96			
					2024/11/28	Sunny	11.7	0.5	11.8	4	Grayish yellow brown	Faint fish	0.0	0.1	10.1	40.1	48.8	0.7	0.1	0.1	79.0	2.79	sand/gravel	< 5.9	45 ± 4.2	45			
					2025/1/20	Sunny	10.0	0.2	9.0	3	Grayish olive	None	0.0	5.3	41.4	30.9	20.7	1.0	0.3	0.4	79.2	2.72	gravel/sand	< 5.2	33 ± 3.5	33			
					2024/5/9	Light Rain	10.0	0.4	15.1	3	Grayish olive	None	0.0	1.5	38.1	33.5	24.4	1.9	0.4	0.2	84.5	2.75	gravel/sand	< 5.7	18 ± 2.7	18			
	12	Momura River	Momuranaka Bridge	Otawara City	2024/6/27	Sunny	24.3	0.2	23.1	4	Grayish olive	None	0.0	3.4	53.5	27.7	14.4	1.0	0.0	0.0	85.0	2.73	gravel/sand	< 5.7	25 ± 3.2	25			
					2024/7/25	Sunny	33.7	0.3	27.7	2	Olive brown	None	0.0	0.9	17.5	32.6	47.4	1.3	0.1	0.2	83.5	2.81	sand/gravel	< 4.7	30 ± 2.8	30			
					2024/8/10	Sunny	27.2	0.2	24.4	3	Grayish olive	None	0.0	0.7	41.7	31.0	24.8	1.5	0.0	0.3	82.5	2.78	gravel/sand	< 7.8	13 ± 3.4	13			
	13	Hokigawa River	Yunohara	Nasushiobara City	2024/9/17	Sunny	28.1	0.3	21.3	3	Gray	None	0.0	2.0	33.6	25.4	34.3	3.9	0.5	0.3	81.6	2.81	sand/gravel	< 5.3	19 ± 2.5	19			
					2024/11/28	Sunny	19.6	0.5	13.0	3	Brownish black	Faint swamp	0.0	1.3	18.4	33.7	41.1	4.9	0.4	0.2	78.3	2.81	sand/gravel	< 6.6	24 ± 3.1	24			
					2025/1/21	Sunny	10.0	0.2	9.0	3	Gray	None	0.0	1.2	34.6	28.2	31.6	3.8	0.4	0.2	79.4	2.74	gravel/sand	< 7.7	21 ± 3.1	21			
					2024/5/9	Cloudy	12.0	0.3	14.0	3	Grayish olive	None	0.0	2.0	26.3	34.2	32.8	3.2	0.8	0.7	80.8	2.73	gravel/sand	< 5.8	24 ± 3.2	24			
					2024/6/27	Cloudy	27.1	0.2	21.1	4	Olive black	None	0.0	1.5	33.6	36.2	26.4	1.6	0.4	0.3	82.8	2.73	sand/gravel	< 6.4	32 ± 3.2	32			
	14	Hokigawa River	Yunohara	Nasushiobara City	2024/7/25	Sunny	33.2	0.4	25.2	3	Grayish yellow brown	Faint swamp	0.0	0.8	41.1	48.5	9.5	0.0	0.0	0.1	83.9	2.72	gravel/sand	< 4.8	19 ± 2.4	19			
2024/8/10					Sunny	29.9	0.2	22.6	4	Olive black	None	0.0	0.9	50.7	30.1	17.2	0.9	0.1	0.1	81.0	2.72	gravel/sand	< 6.3	35 ± 4.2	35				
2024/9/17					Sunny	28.6	0.3	23.0	3	Dark brown	None	0.0	1.2	24.6	38.8	32.5	2.0	0.5	0.4	80.2	2.71	sand/gravel	< 7.0	35 ± 3.8	35				
2024/11/28					Sunny	13.2	0.4	12.0	3	Grayish yellow brown	None	0.0	2.2	46.8	32.7	16.8	1.2	0.2	0.1	86.5	2.72	gravel/sand	< 6.5	20 ± 3.1	20				
2025																													

Tochigi River (Sediment) 2/5

Rivers	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment temperature (°C)	Sediment															Remarks		
	No.	Water Area	Location	Municipality						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
Nakagawa River System	14	Hokigawa River	Sekiba Bridge	Nasushiobara City	2024/5/7	Light Rain	19.0	0.7	15.3	4	Dark olive	None	0.0	1.5	36.5	27.6	25.4	7.2	1.3	0.5	73.4	2.63	gravel/sand	< 7.1	50 ± 4.6	50	
					2024/8/9	Sunny	26.9	0.2	22.6	3	Olive brown	None	0.0	4.4	60.1	23.6	8.0	3.2	0.3	0.4	76.1	2.71	gravel/sand	< 8.2	31 ± 3.7	31	
					2024/11/29	Sunny	12.1	0.4	8.8	3	Dark brown	None	0.0	2.5	53.5	33.7	9.0	1.0	0.2	0.1	80.0	2.69	gravel/sand	< 6.5	33 ± 3.7	33	
			2025/1/21	Sunny	6.0	0.3	8.0	2	Dark olive	None	0.0	1.6	60.0	26.2	10.0	1.5	0.3	0.4	77.9	2.67	gravel/sand	< 7.0	26 ± 3.3	26			
			2024/5/7	Light Rain	19.0	0.4	15.3	4	Olive brown	None	0.0	0.5	22.5	39.3	35.0	2.0	0.4	0.3	77.6	2.72	gravel/sand	< 2.8	6.2 ± 1.0	6.2			
			2024/8/9	Sunny	34.3	0.2	24.5	4	Olive brown	None	0.0	0.1	12.1	34.6	49.0	3.4	0.3	0.5	75.8	2.70	sand/gravel	< 6.5	16 ± 2.8	16			
		15	Hokigawa River	Iwai Bridge	Otawara City	2024/11/28	Sunny	19.0	0.6	12.8	3	Brownish black	Faint sewage	0.0	0.7	26.4	36.2	30.1	5.7	0.5	0.4	78.9	2.66	sand/gravel	< 4.3	7.9 ± 1.7	7.9
						2025/1/21	Sunny	9.0	0.3	9.0	3	Olive brown	None	0.0	3.5	54.5	23.5	16.8	1.2	0.3	0.2	82.4	2.69	sand/gravel	< 6.5	11 ± 2.1	11
						2024/5/7	Light Rain	19.6	0.4	16.8	2	Grayish yellow brown	None	0.0	0.9	22.6	30.4	42.5	2.9	0.4	0.3	81.4	2.77	sand/gravel	< 2.8	4.0 ± 0.92	4.0
						2024/6/27	Cloudy	29.0	0.3	21.9	4	Grayish yellow brown	None	0.0	3.2	41.7	36.8	17.9	0.4	0.0	0.0	83.2	2.70	sand/gravel	< 4.1	6.4 ± 1.5	6.4
						2024/7/25	Sunny	34.2	0.5	25.7	2	Grayish yellow brown	None	0.0	1.5	20.1	26.6	50.8	0.8	0.0	0.2	80.6	2.76	sand/gravel	< 2.4	5.7 ± 0.92	5.7
						2024/8/9	Sunny	33.7	0.3	24.0	4	Dark grayish yellow	None	0.0	1.3	19.6	32.0	42.4	4.1	0.4	0.2	74.4	2.71	sand	< 2.9	11 ± 1.4	11
	16	Hokigawa River	Hokigawa Bridge	Otawara City	2024/9/17	Sunny	27.8	0.3	21.6	3	Dark grayish yellow	None	0.0	0.1	14.5	40.8	44.3	0.3	0.0	0.0	81.5	2.67	sand/gravel	< 5.5	7.4 ± 2.4	7.4	
					2024/11/27	Sunny	20.3	0.7	15.2	3	Grayish yellow brown	Faint swamp	0.0	2.1	30.3	27.4	37.2	2.7	0.1	0.2	81.5	2.73	sand/gravel	< 2.7	5.6 ± 1.0	5.6	
					2025/1/21	Sunny	10.0	0.3	13.0	4	Dark grayish yellow	None	0.0	0.4	21.9	24.0	47.4	5.8	0.3	0.2	79.1	2.76	sand/gravel	< 3.3	5.7 ± 1.1	5.7	
					2024/5/7	Cloudy	21.7	0.2	18.1	2	Dark grayish yellow	None	0.0	1.9	42.2	28.3	23.2	3.2	0.9	0.3	83.4	2.70	gravel/sand	< 4.1	7.9 ± 1.3	7.9	
					2024/6/27	Sunny	30.0	0.2	25.4	4	Olive brown	None	0.0	4.0	58.6	26.4	10.3	0.6	0.0	0.1	87.3	2.72	gravel/sand	< 3.4	5.4 ± 1.5	5.4	
					2024/7/25	Sunny	32.8	0.2	26.6	2	Dark grayish yellow	None	0.0	1.8	40.2	33.2	22.7	1.3	0.3	0.5	83.4	2.73	sand/gravel	< 2.8	7.3 ± 1.2	7.3	
	17	Nakagawa River	Shinnaka Bridge	Nakagawa Town	2024/8/9	Sunny	33.6	0.2	26.0	4	Olive brown	None	0.0	2.8	26.9	16.8	44.4	8.7	0.0	0.4	77.2	2.82	sand/gravel	< 2.9	9.6 ± 1.2	9.6	
					2024/9/17	Cloudy	26.7	0.3	22.1	3	Olive brown	None	0.0	0.3	8.2	15.6	63.4	11.7	0.4	0.4	79.2	2.78	sand/gravel	< 5.9	9.7 ± 2.1	9.7	
					2024/11/27	Sunny	19.0	0.5	14.1	3	Brownish black	Faint fish	0.0	3.5	37.0	20.8	29.9	6.4	1.3	1.1	82.6	2.75	gravel/sand	< 4.7	8.8 ± 1.8	8.8	
					2025/1/21	Sunny	10.0	0.2	11.0	3	Olive brown	None	0.0	3.7	58.3	26.1	11.3	0.4	0.1	0.1	86.1	2.71	gravel/sand	< 6.4	5.3 ± 1.7	5.3	
					2024/5/7	Light Rain	21.1	0.2	17.7	4	Yellowish gray	None	0.0	0.5	35.4	40.4	22.4	0.9	0.2	0.2	84.5	2.72	gravel/sand	< 4.6	6.8 ± 1.8	6.8	
					2024/6/27	Sunny	31.7	0.3	22.9	4	Olive black	None	0.0	0.6	16.9	33.2	47.5	1.4	0.2	0.2	79.3	2.70	sand/gravel	< 4.0	7.3 ± 1.5	7.3	
18		Mumogawa River	Kosei Bridge	Nakagawa Town	2024/7/25	Cloudy	31.4	0.3	27.8	2	Brownish black	Faint fish	0.0	1.7	38.7	25.7	31.6	1.6	0.3	0.4	85.1	2.76	gravel/sand	< 3.9	5.1 ± 1.4	5.1	
					2024/8/9	Sunny	32.3	0.3	25.5	3	Olive black	None	0.0	0.6	15.9	19.5	57.7	5.5	0.4	0.4	79.9	2.75	sand/gravel	< 3.2	6.3 ± 1.1	6.3	
					2024/9/17	Sunny	28.8	0.2	23.6	3	Olive black	None	0.0	0.2	23.1	39.4	34.0	2.8	0.3	0.2	79.7	2.71	sand/gravel	< 6.0	6.9 ± 2.1	6.9	
					2024/11/27	Sunny	19.0	0.4	12.0	3	Brownish black	Faint swamp	0.0	1.7	35.9	33.8	25.8	1.9	0.4	0.5	78.9	2.73	gravel/sand	< 3.0	6.0 ± 1.4	6.0	
					2025/1/22	Sunny	11.0	0.2	6.0	3	Olive black	None	0.0	0.1	14.9	34.5	45.1	3.6	1.0	0.8	78.0	2.70	sand/gravel	< 7.7	10 ± 2.4	10	
					2024/5/8	Sunny	17.6	0.3	14.7	4	Dull yellow brown	None	0.0	2.4	27.7	36.1	30.8	2.3	0.2	0.5	78.3	2.66	gravel/sand	< 7.3	27 ± 3.3	27	
19	Arakawa River	Saikachi Bridge	Shioya Town	2024/8/8	Sunny	32.1	0.3	22.1	4	Dark olive	None	0.0	1.7	39.5	33.9	21.0	3.3	0.2	0.4	74.8	2.66	gravel/sand	< 4.0	26 ± 2.0	26		
				2024/11/28	Sunny	16.6	0.4	11.3	4	Brown	Faint swamp	0.0	3.1	39.3	34.6	21.6	1.1	0.2	0.1	80.2	2.68	gravel/sand	< 7.6	26 ± 3.5	26		
				2025/1/22	Sunny	8.0	0.3	9.0	3	Dark olive	None	0.0	0.7	39.0	42.2	17.0	1.0	0.0	0.1	81.1	2.69	gravel/sand	< 5.9	20 ± 3.5	20		
		Renjo Bridge	Sakura City	2024/5/8	Cloudy	21.7	0.2	16.4	2	Dull yellow brown	None	0.0	2.8	38.4	32.3	23.7	2.0	0.6	0.2	84.0	2.66	gravel/sand	< 4.3	7.1 ± 1.7	7.1		
				2024/8/8	Sunny	35.4	0.5	23.7	4	Olive brown	None	0.0	0.9	15.8	27.5	49.0	5.9	0.4	0.5	77.2	2.71	sand/gravel	< 3.9	7.1 ± 1.5	7.1		
				2024/11/27	Cloudy	17.2	0.3	15.1	3	Dull yellow brown	None	0.0	3.7	36.6	38.0	20.3	1.2	0.1	0.1	82.6	2.73	gravel/sand	< 3.7	5.2 ± 1.2	5.2		
20	Arakawa River	Renjo Bridge	Sakura City	2025/1/22	Sunny	11.0	0.2	11.0	3	Olive brown	None	0.0	0.8	31.5	35.5	27.9	3.6	0.4	0.3	80.1	2.71	gravel/sand	< 4.6	5.5 ± 1.7	5.5		
				2024/5/8	Cloudy	19.7	0.4	15.8	4	Dull yellow brown	None	0.0	3.6	48.9	32.5	12.8	1.7	0.2	0.3	82.1	2.75	gravel/sand	< 4.5	26 ± 2.5	26		
				2024/8/8	Sunny	35.0	0.2	23.1	3	Dark brown	None	0.0	3.2	49.1	26.3	20.0	1.2	0.1	0.1	79.2	2.75	gravel/sand	< 6.4	25 ± 3.6	25		
				2024/11/28	Sunny	18.0	0.4	12.5	4	Dark brown	None	0.0	2.8	47.4	33.0	15.1	1.1	0.3	0.3	81.0	2.84	gravel/sand	< 7.0	35 ± 3.8	35		
				2025/1/22	Sunny	10.0	0.2	10.0	3	Dark brown	None	0.0	1.7	52.8	31.9	13.1	0.4	0.0	0.1	85.7	2.76	gravel/sand	< 8.3	33 ± 4.9	33		
				2024/5/8	Cloudy	19.1	0.2	17.9	3	Dull yellow brown	None	0.0	0.1	3.5	22.7	69.2	4.0	0.2	0.3	76.4	2.73	sand/gravel	< 4.4	18 ± 2.4	18		
21	Uchikawa River	Tanaka Bridge	Yaiba City	2024/8/8	Cloudy	31.3	0.3	25.3	4	Dull yellow brown	None	0.0	0.1	2.9	18.3	76.9	1.7	0.0	0.1	74.6	2.77	sand/gravel	< 7.1	15 ± 3.5	15		
				2024/11/27	Cloudy	18.3	0.8	14.2	3	Dull yellow brown	None	0.0	1.0	18.0	26.4	48.4	5.8	0.2	0.2	77.9	2.75	sand/gravel	< 8.5	24 ± 3.3	24		
				2025/1/22	Sunny	10.0	0.2	11.0	3	Olive brown	None	0.0	1.7	39.9	41.2	17.0	0.2	0.0	0.0	81.9	2.71	sand/gravel	< 5.5	13 ± 2.7	13		
		Asahi Bridge	Sakura City	2024/5/7	Light Rain	19.7	0.5	18.5	2	Grayish yellow brown	None	0.0	3.0	35.5	15.0	31.8	12.5	1.4	0.8	81.4	2.70	sand/gravel	< 3.2	7.1 ± 1.1	7.1		
				2024/6/27	Cloudy	28.3	0.4	24.5	4	Brown	None	0.0	0.3	7.7	5.9	46.1	37.1	2.0	0.9	75.5	2.74	sand/gravel	< 8.3	12 ± 2.8	12		
				2024/7/30	Cloudy	34.8	0.4	28.0	3	Dark brown	None	0.0	2.3	43.8	28.2	19.2	5.5	0.4	0.6	84.1	2.68	gravel/sand	< 5.6	10 ± 2.5	10		
22	Arakawa River	Mukada Bridge	Nasu Karasuyama City	2024/8/19	Sunny	35.6	0.5	28.3	4	Grayish yellow brown	None	0.0	0.0	0.6	1.0	52.8	40.0	2.6	3.0	73.7	2.73	sand	< 7.5	13 ± 2.6	13		
				2024/9/17	Sunny	28.7	0.3	26.4	3	Dark brown	None	0.0	0.1	3.0	7.8	49.8	34.5	2.8	2.0	75.5	2.73	sand/gravel	< 6.9	12 ± 2.4	12		
				2024/11/27	Sunny	17.2	0.4	13.6	3	Dull yellow brown	None	0.0	3.3	48.3	22.9	17.5	7.2	0.3	0.5	85.3	2.72	gravel/sand	< 3.2	5.0 ± 1.3	5.0		
				2025/1/22	Sunny	8.0	0.3	9.0	4	Brown	None	0.0	0.4	9.3	17.1	60.0	12.3	0.4	0.5	77.0	2.85	sand/gravel	< 2.4	5.5 ± 0.94	5.5		
				2024/5/7	Light Rain	20.7	0.6	19.0	2	Yellowish gray	Faint swamp	0.0	3.7	36.1	21.2	28.8	8.2	1.5	0.5	81.5	2.73	gravel/sand	< 3.9	12 ± 1.8	12		
				2024/6/27	Cloudy	27.8	0.2	25.4	4	Dark grayish yellow	Faint swamp	0.0	0.1	3.5	4.5	37.1	40.4	8.2	6.2	62.7	2.66	silt/sand	< 8.0	29 ± 4.1	29		
23	Egawa River	Tributary	Nasu Karasuyama City	2024/7/30	Cloudy	34.9	0.6	28.0	2	Dark brown	None	0.0	1.1	23.8	34.6	38.3	1.7	0.2	0.3	80.8	2.79	gravel/sand	< 6.5	11 ± 2.1	11		
				2024/8/19	Light Rain	32.3	0.5	29.4	4	Brownish black	None	0.0	3.1	38.9	24.8	24.5	6.8	0.8	1.1	81.5	2.75	gravel/sand	< 7.3	18 ± 3.0	18		
				2024/9/17	Sunny	33.9	0.4	27.5	3	Dark brown	None	0.0	2.1	21.1	13.2	33.0	22.0	3.6	5.0	72.0	2.69	gravel/sand	< 7.8	22 ± 3.3	22		

Tochigi River (Sediment) 3/5

Rivers	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment temperature (°C)	Sediment																	Remarks		
	No.	Water Area	Location	Municipality						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			
Tonegawa River System	Kinugawa River System	Ojika River	Tributary	Nikko City	2024/5/15	Sunny	23.0	0.4	13.8	4	Dull yellow brown	None	0.0	2.0	42.9	40.9	13.8	0.3	0.0	0.1	97.3	2.67	sand/gravel	< 3.7	3.6 ± 1.1	3.6			
					2024/8/9	Sunny	32.1	0.2	26.0	3	Grayish olive	None	0.0	0.3	30.1	46.8	22.5	0.2	0.0	0.1	91.1	2.69	gravel/sand	< 3.3	4.1 ± 0.93	4.1			
					2024/11/29	Sunny	5.2	0.5	7.9	3	Yellow brown	None	0.0	4.1	45.5	39.7	10.5	0.1	0.0	0.1	89.4	2.69	gravel/sand	< 2.6	2.7 ± 0.87	2.7			
					2025/1/23	Sunny	6.0	0.3	7.0	3	Grayish olive	None	0.0	0.5	31.3	37.0	28.9	2.0	0.2	0.1	82.4	2.71	sand/gravel	< 4.0	6.8 ± 1.9	6.8			
		Kinugawa River	Kosagoe	Nikko City	2024/5/15	Sunny	23.0	0.3	16.8	3	Dull yellow brown	None	0.0	3.3	46.6	29.3	18.1	2.1	0.2	0.4	83.9	2.69	sand/gravel	< 6.9	14 ± 2.6	14			
					2024/8/9	Sunny	32.2	0.2	22.2	3	Dark brown	None	0.0	0.5	34.8	29.3	28.9	4.7	0.9	0.9	78.4	2.69	gravel/sand	< 6.2	19 ± 3.9	19			
					2024/11/29	Sunny	3.0	0.4	7.6	4	Olive brown	None	0.0	2.6	31.4	38.3	24.1	2.8	0.5	0.3	85.6	2.73	sand/gravel	< 5.4	13 ± 2.7	13			
					2025/1/23	Sunny	5.0	0.2	6.0	3	Brown	None	0.0	0.6	30.8	40.7	24.5	2.5	0.4	0.5	81.2	2.71	gravel/sand	< 6.5	17 ± 2.6	17			
		Itaana River	Tributary	Nikko City	2024/5/14	Sunny	16.0	0.4	12.8	3	Olive brown	None	0.0	0.3	13.8	22.3	33.6	24.5	3.3	2.2	74.7	2.68	sand/gravel	< 6.9	39 ± 4.0	39			
					2024/6/28	Light Rain	20.9	0.4	16.8	3	Grayish yellow brown	None	0.0	0.6	33.3	37.3	22.3	4.8	1.1	0.6	78.9	2.70	gravel/sand	< 7.8	24 ± 3.4	24			
					2024/7/31	Sunny	26.3	0.3	21.7	3	Olive brown	None	0.0	0.2	18.3	26.3	32.7	17.4	3.5	1.6	72.2	2.69	sand/gravel	< 7.1	34 ± 4.3	34			
					2024/8/19	Sunny	28.1	0.3	22.4	3	Brownish black	None	3.4	3.5	27.3	14.5	37.5	11.4	0.9	1.5	76.4	2.72	gravel/sand	< 8.3	23 ± 4.3	23			
		Yukawa River	Tributary	Nikko City	2024/9/18	Sunny	28.4	0.3	21.8	3	Grayish yellow brown	None	0.0	3.8	33.5	23.6	35.3	3.5	0.2	0.1	80.2	2.71	sand/gravel	< 7.8	20 ± 3.1	20			
					2024/11/29	Sunny	6.5	0.4	6.8	3	Grayish yellow brown	None	0.0	4.1	44.6	29.8	20.5	0.8	0.1	0.1	82.4	2.70	gravel/sand	< 7.6	18 ± 2.7	18			
					2025/1/24	Sunny	4.0	0.2	5.0	3	Olive brown	None	0.0	0.1	17.8	38.3	41.8	1.7	0.1	0.2	80.2	2.70	gravel/sand	< 5.8	22 ± 3.4	22			
					2024/5/15	Sunny	21.0	0.3	12.4	3	Brownish black	None	0.0	1.3	26.7	28.7	42.3	0.9	0.0	0.1	79.8	2.94	sand/gravel	< 1.1	1.7 ± 0.41	1.7			
		Daiya River	Shinkyō Bridge	Nikko City	2024/8/8	Sunny	27.6	0.2	20.1	3	Brownish black	None	0.0	0.6	16.3	31.3	47.6	2.0	1.1	1.1	78.6	3.14	sand/gravel	< 1.4	2.2 ± 0.44	2.2			
					2024/11/25	Sunny	6.9	0.3	7.1	3	Brownish black	None	0.0	7.5	21.2	16.3	47.1	7.5	0.2	0.2	79.5	2.95	sand/gravel	< 1.2	2.4 ± 0.35	2.4			
					2025/1/23	Sunny	3.0	0.2	7.0	3	Brownish black	None	0.0	1.2	25.5	25.3	42.6	4.7	0.3	0.4	80.5	2.92	sand/gravel	< 1.4	1.4 ± 0.44	1.4			
					2024/5/9	Light Rain	6.3	0.2	8.3	3	Olive black	None	0.0	0.5	30.5	44.6	21.8	2.0	0.3	0.3	87.3	2.78	gravel/sand	< 3.1	5.4 ± 0.93	5.4			
		Shidobuchi River	Sujichigai Bridge	Nikko City	2024/8/8	Sunny	31.8	0.2	15.9	3	Olive black	None	0.0	0.3	32.0	33.0	27.1	5.6	0.8	1.2	79.9	2.77	sand/gravel	< 6.3	10 ± 2.6	10			
					2024/11/28	Sunny	7.2	0.3	8.0	3	Brownish black	None	0.0	0.8	27.2	33.3	34.0	4.1	0.3	0.3	80.1	2.83	gravel/sand	< 8.0	10 ± 2.5	10			
					2025/1/23	Sunny	7.0	0.2	8.0	3	Olive black	None	0.0	0.3	26.1	44.7	26.3	2.0	0.4	0.2	79.7	2.76	sand/gravel	< 5.4	8.3 ± 1.9	8.3			
					2024/5/9	Light Rain	11.0	0.2	10.8	3	Olive black	None	0.0	5.0	72.7	17.6	3.3	0.8	0.4	0.2	92.1	2.72	gravel/sand	< 5.7	52 ± 3.6	52			
		Daiya River	Kaishin Bridge (Harigai)	Nikko City	2024/8/8	Sunny	29.4	0.2	25.0	3	Olive black	None	0.0	5.7	49.7	27.6	13.3	2.0	0.7	1.0	82.7	2.76	gravel/sand	< 8.5	69 ± 5.9	69			
					2024/11/28	Sunny	8.0	0.2	8.0	2	Brownish black	None	0.0	5.3	55.6	25.8	9.9	2.2	0.6	0.6	87.0	2.76	gravel/sand	< 6.2	49 ± 4.0	49			
					2025/1/23	Sunny	11.0	0.2	8.0	2	Olive black	None	0.0	6.7	69.0	20.1	3.4	0.5	0.2	0.1	86.9	2.73	gravel/sand	< 6.4	48 ± 4.1	48			
					2024/5/8	Cloudy	19.0	0.3	14.6	4	Dark brown	None	0.0	0.1	6.8	41.8	47.9	3.1	0.0	0.3	77.6	2.69	sand/gravel	< 2.3	2.5 ± 0.75	2.5			
		Kinugawa River	Sanuki	Shiōya Town	2024/6/28	Light Rain	22.3	0.3	13.9	2	Brownish black	None	0.0	0.4	14.2	15.1	58.2	10.9	0.8	0.4	78.2	2.76	sand/gravel	< 3.7	5.6 ± 1.5	5.6			
					2024/7/31	Sunny	27.8	0.4	18.4	3	Brownish black	None	0.0	0.0	4.4	33.7	60.3	1.5	0.0	0.1	76.1	2.70	sand	< 1.0	2.4 ± 0.37	2.4			
					2024/8/19	Sunny	28.1	0.2	16.3	3	Dark brown	None	0.0	0.1	0.4	2.3	75.7	17.0	2.2	2.3	71.5	2.69	sand	< 3.7	4.8 ± 1.3	4.8			
					2024/9/18	Sunny	28.2	0.2	19.8	3	Dark brown	None	0.0	0.5	7.7	17.0	67.7	7.0	0.0	0.1	80.8	2.70	sand/gravel	< 4.1	5.5 ± 1.7	5.5			
		Nishi-Kinugawa River	Nishi-Kinugawa Bridge	Utsunomiya City	2024/11/28	Sunny	14.0	0.4	8.8	3	Brownish black	Faint swamp	0.0	1.8	28.5	30.3	31.5	5.7	0.8	1.4	84.1	2.76	sand/gravel	< 2.3	4.0 ± 0.77	4.0			
					2025/1/23	Sunny	7.8	0.3	8.4	3	Dark brown	None	0.0	0.0	0.8	2.5	77.0	16.1	2.0	1.6	70.7	2.68	sand	< 3.6	5.9 ± 1.1	5.9			
					2024/5/8	Cloudy	19.4	0.5	13.5	4	Dark brown	None	0.0	0.0	1.7	8.7	53.4	19.3	10.4	6.5	67.8	2.73	sand/silt	< 5.6	19 ± 2.6	19			
					2024/6/28	Cloudy	22.8	0.4	20.6	3	Grayish yellow brown	None	0.0	0.0	0.9	6.1	52.1	23.9	6.6	10.4	62.3	2.72	sand	< 4.9	26 ± 3.2	26			
		Kinugawa River	Hoshakujī Temple	Mooka City	2024/7/31	Sunny	29.5	0.3	21.7	3	Dark brown	None	0.0	0.1	3.0	17.6	63.3	6.5	4.0	5.5	80.5	2.78	sand	< 6.1	20 ± 2.8	20			
					2024/8/19	Sunny	32.5	0.2	26.4	3	Dull yellow brown	None	0.0	0.2	0.3	6.5	59.0	22.7	5.4	5.9	70.7	2.75	sand	< 9.2	14 ± 4.5	14			
					2024/9/18	Sunny	27.6	0.3	21.8	3	Dark brown	None	0.0	0.2	2.9	11.5	69.5	13.4	1.5	1.0	77.8	2.77	sand	< 5.1	8.1 ± 2.0	8.1			
					2024/11/28	Sunny	13.9	0.4	11.0	3	Dark brown	Faint swamp	0.0	0.0	0.0	1.3	58.7	23.1	8.3	8.6	61.6	2.67	sand/silt	< 8.3	25 ± 3.9	25			
Kinugawa River	Daidoizumi Bridge	Mooka City	2025/1/23	Sunny	10.7	0.1	8.2	3	Dark brown	None	0.0	0.0	0.2	1.9	86.2	9.0	1.2	1.5	70.2	2.70	sand	< 7.4	8.9 ± 2.5	8.9					
			2024/5/8	Cloudy	21.3	0.4	13.8	3	Brownish black	None	0.0	0.0	1.1	38.1	57.9	2.7	0.0	0.2	78.8	2.72	sand	< 3.0	4.7 ± 1.2	4.7					
			2024/8/8	Cloudy	32.0	0.5	21.5	3	Dark brown	None	0.0	0.1	5.3	21.9	53.9	16.2	1.2	1.4	76.2	2.70	sand/gravel	< 7.1	16 ± 3.2	16					
			2024/11/27	Cloudy	17.0	0.8	11.8	4	Brownish black	None	0.0	1.6	34.7	48.0	14.6	0.9	0.1	0.1	83.8	2.71	gravel/sand	< 2.3	3.3 ± 0.97	3.3					
Egawa River	Tributary	Shimotsuke City	2025/1/23	Sunny	10.8	0.3	8.2	3	Dull yellow brown	None	0.0	0.2	6.1	14.8	54.4	21.0	2.3	1.2	76.0	2.75	sand/gravel	< 7.8	18 ± 2.9	18					
			2024/5/8	Cloudy	22.2	0.3	15.9	3	Grayish yellow brown	None	0.0	0.2	9.5	14.2	68.3	6.7	0.7	0.4	73.9	2.74	sand/gravel	< 1.9	4.6 ± 0.81	4.6					
			2024/8/8	Sunny	33.7	0.3	23.8	3	Grayish yellow brown	None	0.0	1.6	27.7	24.6	39.9	5.4	0.3	0.5	81.9	2.73	sand/gravel	< 0.96	2.2 ± 0.32	2.2					
			2024/11/27	Cloudy	16.5	0.4	12.2	3	Dull yellow brown	None	0.0	0.0	10.2	36.5	48.2	4.2	0.5	0.4	80.0	2.70	sand/gravel	< 1.0	3.9 ± 0.35	3.9					
Akabori River	Nikko City Hall, front	Nikko City	2025/1/23	Sunny	11.2	0.3	9.2	3	Grayish yellow brown	None	0.0	0.0	2.8	13.4	75.1	6.5	1.0	1.2	73.5	2.71	sand	< 5.1	8.3 ± 1.8	8.3					
			2024/5/9	Sunny	19.6	0.9	18.3	5	Grayish yellow brown	None	0.0	0.3	5.8	6.4	57.5	26.2	2.3	1.5	74.2	2.72	sand	< 4.1	9.2 ± 1.4	9.2					
			2024/8/8	Sunny	35.8	1.0	27.1	4	Olive brown	None	0.0	0.0	0.2	0.9	47.7	47.4	2.5	1.3	72.8	2.73	sand	< 3.7	8.2 ± 1.4	8.2					
			2024/11/26	Cloudy	14.4	0.7	12.0	3	Dark brown	Faint swamp	0.0	0.0	0.1	0.4	25.8	61.6	5.1	7.0	68.4	2.73	sand	< 2.9	17 ± 1.5	17					
Kinugawa River	Kinugawa Bridge (Hoshakujī Temple)	Mooka City	2025/1/21	Sunny	8.8	0.6	11.3	3	Dull yellow brown	None	0.0	0.0	0.3	0.8	37.2	49.4	5.8	6.5	68.6	2.72	sand	< 3.0	22 ± 1.6	22					
			2024/5/9	Sunny	19.7	0.6	16.7	3	Dark grayish yellow	Faint swamp	0.0	3.5	35.4	30.1	27.9	2.6	0.2	0.3	84.7	2.71	gravel/sand	< 3.6	5.8 ± 1.1	5.8					
			2024/6/28	Light Rain	27.4	0.7	21.4	3	Grayish yellow brown	Faint swamp	0.0	0.4	6.7	21.0	65.9	5.1	0.2	0.7	78.8	2.71	sand/gravel	< 5.8	10 ± 1.8	10					
			2024/7/30	Sunny	37.2	0.5	26.8	3	Dark olive brown	Faint swamp	0.0	1.8	19.9	30.0	43.8	3.4	0.5	0.6	81.7	2.73	gravel/sand	< 6.4	7.3 ± 1.7	7.3					
Kinugawa River	Daidoizumi Bridge	Mooka City	2024/8/19	Sunny	33.3	0.2	26.4	3	Olive black	None	0.0	4.0	55.6	25.5	13.5	0.9	0.2	0.3	87.7	2.70	gravel/sand	<							

Tochigi River (Sediment) 4/5

No.	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment temperature (°C)	Sediment														Remarks	
	Water Area	Location	Municipality	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
40	Akabori River	Kiwadajima	Nikko City	2024/5/9	Sunny	15.8	0.2	14.3	3	Grayish yellow brown	None	0.0	0.1	5.9	14.3	69.8	8.1	1.0	0.8	73.3	2.75	sand/gravel	< 4.7	7.0 ± 1.7	7.0
				2024/8/8	Sunny	32.2	0.2	19.1	3	Dark brown	None	0.0	0.6	4.4	12.4	75.4	6.2	0.4	0.6	75.9	2.80	gravel/sand	< 7.3	14 ± 3.1	14
				2024/11/28	Sunny	5.6	0.3	10.2	3	Grayish yellow brown	None	0.0	3.7	36.0	23.7	31.1	4.8	0.3	0.4	80.2	2.89	gravel/sand	< 5.2	8.5 ± 1.6	8.5
				2025/1/23	Sunny	5.8	0.1	9.3	3	Grayish yellow brown	None	0.0	0.3	29.8	41.2	26.0	1.9	0.5	0.3	78.9	2.74	gravel/sand	< 6.2	10 ± 2.1	10
				2024/5/8	Light Rain	18.3	0.7	17.5	2	Dark brown	None	0.0	1.0	34.8	28.0	28.1	7.1	0.6	0.4	81.0	2.71	gravel/sand	< 5.1	9.0 ± 2.2	9.0
				2024/6/28	Light Rain	24.5	0.7	20.7	3	Dull yellow brown	Faint fish	0.0	0.1	24.7	24.4	40.7	9.9	0.1	0.1	79.9	2.70	sand/gravel	< 7.7	4.6 ± 1.2	4.6
				2024/7/31	Sunny	34.5	0.2	26.8	3	Dull yellow brown	None	0.0	0.0	1.7	8.1	60.8	24.5	2.3	2.6	72.0	2.77	sand	< 8.4	12 ± 2.5	12
				2024/8/20	Sunny	26.4	0.2	26.4	3	Dull yellow brown	None	0.0	0.8	27.0	23.0	44.7	3.8	0.3	0.4	81.6	2.79	sand/gravel	< 1.2	3.1 ± 0.43	3.1
				2024/9/18	Sunny	29.6	0.3	23.2	3	Dark brown	None	0.0	1.2	7.2	25.3	63.7	2.4	0.1	0.1	82.0	2.82	sand/gravel	< 3.8	5.9 ± 1.3	5.9
				2024/11/27	Cloudy	16.1	0.6	13.8	4	Dark brown	None	0.0	2.9	57.9	29.2	7.8	1.3	0.5	0.4	87.3	2.69	gravel/sand	< 4.2	5.3 ± 1.2	5.3
41	Tagawa River	Ozobashi Bridge	Utsunomiya City	2025/1/22	Sunny	11.9	0.3	12.2	3	Dull yellow brown	None	0.0	0.0	0.3	8.8	81.9	7.3	1.0	0.7	71.9	2.77	sand	< 4.2	5.3 ± 1.5	5.3
				2024/5/9	Cloudy	10.4	0.3	14.8	4	Dark brown	None	0.0	0.1	12.1	47.6	38.4	1.3	0.1	0.4	76.1	2.67	sand/gravel	< 6.8	21 ± 3.1	21
				2024/8/9	Sunny	29.4	0.1	26.4	3	Dull yellow brown	None	0.0	1.9	30.5	29.8	33.9	3.1	0.3	0.5	79.3	2.68	gravel/sand	< 7.3	16 ± 3.4	16
				2024/11/27	Cloudy	15.4	0.3	14.3	3	Brownish black	None	0.0	1.5	26.6	22.4	41.2	6.9	0.8	0.6	76.5	2.73	sand/gravel	< 7.6	25 ± 3.6	25
				2025/1/22	Sunny	10.4	0.2	12.8	3	Olive black	None	0.0	1.4	6.4	27.8	57.6	5.8	0.4	0.6	74.4	2.70	sand/gravel	< 8.3	22 ± 3.6	22
				2024/5/9	Sunny	19.6	0.5	16.9	3	Dull yellow brown	None	0.0	0.9	22.8	29.5	43.4	2.7	0.2	0.5	81.3	2.71	gravel/sand	< 3.5	5.4 ± 1.4	5.4
				2024/8/8	Sunny	33.7	0.3	27.3	4	Dark olive brown	None	0.0	1.0	38.9	21.0	33.5	4.6	0.4	0.6	81.1	2.71	gravel/sand	< 7.8	8.4 ± 2.3	8.4
				2024/11/26	Cloudy	15.0	0.3	14.0	3	Grayish yellow brown	None	0.0	1.2	24.5	23.9	46.2	3.8	0.3	0.1	83.1	2.77	sand/gravel	< 5.1	5.7 ± 1.3	5.7
				2025/1/22	Sunny	5.3	0.2	10.4	3	Brown	None	0.0	0.3	17.3	27.1	48.8	5.4	0.6	0.5	79.6	2.74	gravel/sand	< 6.7	14 ± 2.5	14
				2024/5/10	Sunny	17.5	0.9	16.9	3	Grayish yellow brown	Faint swamp	0.0	0.7	27.7	14.3	39.4	16.5	0.9	0.5	80.8	2.82	gravel/sand	< 6.8	14 ± 2.4	14
42	Kamagawa River	Tsukushi Bridge	Oyama City	2024/8/8	Sunny	33.4	0.5	27.9	2	Dark brown	None	0.0	3.9	42.6	17.1	11.2	10.9	5.4	8.9	72.7	2.64	gravel/sand	< 8.5	41 ± 5.1	41
				2024/11/20	Cloudy	5.6	0.8	12.0	2	Dark brown	None	0.0	1.0	20.5	6.8	36.6	28.6	3.9	2.6	72.9	2.83	sand/gravel	< 7.8	14 ± 3.0	14
				2025/1/21	Sunny	10.7	0.7	12.6	3	Dark brown	None	0.0	2.3	37.2	23.2	26.0	9.2	0.8	1.3	80.8	2.80	gravel/sand	< 5.8	7.4 ± 2.4	7.4
				2024/5/10	Sunny	13.5	0.3	14.6	3	Grayish yellow brown	None	0.0	1.4	28.5	25.2	38.9	4.9	0.5	0.6	80.6	2.70	gravel/sand	< 2.1	5.3 ± 0.82	5.3
				2024/8/9	Sunny	34.2	0.4	26.5	4	Dark grayish yellow	None	0.0	2.7	42.4	23.8	25.4	4.9	0.4	0.4	78.0	2.68	gravel/sand	< 2.1	4.3 ± 0.78	4.3
				2024/11/27	Cloudy	13.2	0.3	11.5	3	Grayish yellow brown	None	0.0	2.6	41.7	29.3	21.6	4.0	0.4	0.4	83.0	2.70	gravel/sand	< 2.4	2.5 ± 0.75	2.5
				2025/1/22	Sunny	9.4	0.2	10.7	3	Dull yellow brown	None	0.0	0.9	35.6	30.8	28.1	3.9	0.4	0.3	82.7	2.70	sand/gravel	< 2.8	3.7 ± 0.93	3.7
				2024/5/9	Cloudy	18.2	0.6	16.5	4	Dull yellow brown	None	0.0	0.0	6.0	27.8	55.8	9.1	0.6	0.7	76.0	2.70	sand/gravel	< 2.7	3.8 ± 1.1	3.8
				2024/8/9	Sunny	28.9	0.6	26.0	4	Dull yellow brown	None	0.0	7.2	55.0	8.8	21.1	6.2	0.9	0.8	85.2	2.71	gravel/sand	< 2.0	2.5 ± 0.65	2.5
				2024/11/26	Cloudy	15.5	0.3	13.6	3	Dull yellow brown	Faint fish	0.0	3.1	38.1	18.8	34.8	4.3	0.3	0.6	84.9	2.79	gravel/sand	< 1.7	2.1 ± 0.61	2.1
43	Tagawa River	Meiji Bridge	Kaminokawa Town	2025/1/22	Sunny	7.6	0.2	12.8	3	Dull yellow brown	None	0.0	0.9	39.2	22.9	29.2	5.8	0.6	1.4	81.0	2.74	gravel/sand	< 2.3	4.8 ± 0.77	4.8
				2024/5/10	Sunny	22.7	0.2	17.4	3	Olive black	None	0.0	1.4	32.9	46.1	18.6	0.9	0.0	0.1	84.4	2.68	gravel/sand	< 3.5	4.6 ± 1.2	4.6
				2024/8/9	Sunny	32.8	0.3	24.0	3	Grayish olive	None	0.0	1.3	39.4	39.7	17.9	0.9	0.4	0.4	87.6	2.72	gravel/sand	< 1.7	3.1 ± 0.69	3.1
				2024/11/27	Cloudy	14.9	0.3	12.3	4	Dark grayish yellow	Faint swamp	0.0	2.1	42.4	22.9	23.1	6.8	1.7	1.0	87.6	2.73	gravel/sand	< 2.6	3.6 ± 0.73	3.6
				2025/1/22	Sunny	9.3	0.2	10.4	3	Grayish olive	None	0.0	3.0	64.7	18.9	9.4	2.3	1.1	0.6	88.1	2.69	gravel/sand	< 3.2	4.3 ± 0.97	4.3
				2024/5/10	Sunny	21.0	0.2	17.2	4	Dull yellow brown	None	0.0	5.1	39.3	20.7	30.1	2.9	1.0	0.9	80.0	2.78	gravel/sand	< 4.0	20 ± 2.8	20
				2024/8/9	Sunny	35.4	0.3	29.7	3	Dark brown	None	0.0	1.9	41.3	27.9	21.7	3.1	1.4	2.7	82.3	2.74	gravel/sand	< 8.1	19 ± 4.0	19
				2024/11/27	Cloudy	16.9	0.2	12.7	2	Dark brown	None	0.0	5.5	55.5	18.7	17.1	1.8	0.7	0.7	85.0	2.72	gravel/sand	< 6.9	14 ± 2.3	14
				2025/1/22	Sunny	10.2	0.2	9.3	3	Dark brown	None	0.0	1.6	34.9	28.2	28.9	3.9	1.5	1.0	76.0	2.71	gravel/sand	< 4.6	19 ± 2.8	19
				2024/5/9	Cloudy	16.6	0.3	15.9	4	Dark grayish yellow	None	0.0	2.5	42.3	27.3	24.5	2.8	0.3	0.3	84.8	2.75	gravel/sand	< 2.0	2.3 ± 0.60	2.3
44	Yanabashi Bridge	Oyama City	Mibu Town	2024/8/9	Sunny	28.9	0.6	26.0	4	Dull yellow brown	None	0.0	1.9	33.4	35.1	27.9	1.1	0.3	0.3	85.7	2.70	gravel/sand	< 1.1	1.4 ± 0.41	1.4
				2024/11/26	Cloudy	15.5	0.3	13.6	3	Dull yellow brown	Faint fish	0.0	1.7	30.9	21.6	39.0	6.0	0.4	0.4	82.5	2.73	gravel/sand	< 2.0	4.2 ± 0.79	4.2
				2025/1/22	Sunny	9.7	0.1	10.8	3	Dull yellow brown	None	0.0	0.4	31.2	28.6	34.8	3.8	0.7	0.5	80.6	2.68	gravel/sand	< 1.6	3.3 ± 0.54	3.3
				2024/5/17	Sunny	31.0	0.4	18.9	4	Dull yellow brown	None	2.6	4.4	31.7	12.9	32.2	13.7	1.0	1.5	84.5	2.79	gravel/sand	< 3.5	3.5 ± 0.83	3.5
				2024/6/28	Cloudy	23.5	0.6	22.9	3	Grayish yellow brown	None	0.0	1.0	34.4	10.9	34.0	17.5	1.8	0.4	83.0	2.77	sand/gravel	< 4.8	5.6 ± 1.6	5.6
				2024/7/30	Cloudy	38.1	0.3	27.1	3	Dark grayish yellow	Faint fish	0.0	3.2	39.1	12.6	30.2	13.1	0.9	0.9	86.3	2.78	sand/gravel	< 3.5	4.5 ± 1.1	4.5
				2024/8/19	Sunny	30.3	0.5	26.3	3	Grayish olive	None	0.0	2.2	28.0	17.2	37.0	12.0	1.8	1.8	83.1	2.72	sand/gravel	< 2.7	4.0 ± 0.97	4.0
				2024/9/18	Sunny	32.7	0.3	27.2	3	Grayish yellow brown	None	2.3	1.7	10.6	7.4	23.2	43.3	4.7	6.8	73.7	2.74	sand/gravel	< 3.8	9.0 ± 1.8	9.0
				2024/11/20	Cloudy	11.1	0.3	12.0	3	Olive brown	None	0.0	1.3	26.9	14.0	38.3	13.8	3.7	2.0	78.3	2.77	sand/gravel	< 3.8	8.0 ± 1.6	8.0
				2025/1/21	Sunny	10.3	0.2	11.8	3	Dull yellow brown	None	0.0	1.1	39.1	18.8	20.1	9.1	6.3	5.5	76.6	2.72	sand/gravel	< 6.0	9.8 ± 2.5	9.8
45	Kurokawa River	Kajijima Bridge	Kanuma City	2024/5/17	Sunny	30.5	0.9	18.1	4	Olive black	None	0.0	0.0	0.0	0.1	3.0	59.0	14.7	23.2	49.5	2.64	silt	< 8.2	21 ± 2.9	21
				2024/6/28	Light Rain	23.5	0.8	22.7	4	Black	Faint ditch	0.0	0.0	0.0	0.1	2.6	55.1	23.0	19.2	46.9	2.62	silt/sand	< 6.0	27 ± 3.3	27
				2024/7/30	Sunny	34.6	0.7	28.1	4	Brownish black	Faint ditch	0.0	0.0	0											

Tochigi River (SE) 1/3

Rivers	Location				Sampling Date	Weather	Air temperature (°C)	Surrounding Environment (Soil/Air dose)															Remarks
								Left bank					Right bank										
	No.	Water Area	Location	Municipality				Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air dose (μSv/h)	Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air dose (μSv/h)		
											Radioactive cesium							Radioactive cesium					
							Cs-134	Cs-137	Total		Cs-134	Cs-137	Total										
Nakagawa River System	1	Nakagawa River	Ikuoyashishita	Nasushiobara City	2024/5/7	Light Rain	15.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(Left bank)Unable to collect samples due to location inaccessibility.*	
			2024/8/10		Sunny	24.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(Left bank)Unable to collect samples due to location inaccessibility.*
	2	Komei Bridge	2024/5/7	Light Rain	15.0	Brownish black	Faint earth	loamy	50 ± 6.2	3,200 ± 44	3,250	0.08	Brownish black	Faint earth	Loamy	22 ± 6.9	1,700 ± 36	1,722	0.06				
			2024/8/10	Sunny	27.0	Brownish black	Faint earth	loamy	33 ± 7.2	3,100 ± 63	3,133	0.08	Brownish black	Faint earth	Loamy	42 ± 9.2	2,700 ± 72	2,742	0.08				
	3	Takaomata River	Takaomata Bridge	Nasu Town	2024/5/7	Light Rain	16.0	Brownish black	Faint earth	loamy	20 ± 4.5	1,300 ± 23	1,320	0.08	Brownish black	Faint earth	Loamy	30 ± 8.1	2,100 ± 42	2,130	0.10		
					2024/8/10	Cloudy	27.1	Brownish black	Faint earth	loamy	16 ± 3.5	1,200 ± 28	1,216	0.08	Brown	Faint earth	Loamy	21 ± 6.1	2,100 ± 40	2,121	0.08		
	4	Yukawa River	Yukawa Bridge	Nasu Town	2024/5/7	Light Rain	17.0	Dark brown	Faint earth	loamy	12 ± 3.6	760 ± 17	772	0.11	Dark brown	Faint earth	Loamy	31 ± 5.0	1,700 ± 35	1,731	0.08		
					2024/8/10	Sunny	24.9	Dark brown	Faint earth	loamy	19 ± 4.6	1,200 ± 27	1,219	0.09	Dark brown	Faint earth	Loamy	37 ± 8.1	2,000 ± 51	2,037	0.08		
	5	Nakagawa River	Kamikuroiso	Nasushiobara City/ Nasu Town	2024/5/8	Cloudy	16.0	Brownish black	Faint earth	loamy	26 ± 7.2	1,800 ± 41	1,826	0.11	Dark brown	Faint earth	Loamy	18 ± 3.5	950 ± 24	968	0.10		
					2024/6/26	Sunny	27.8	Brownish black	Faint earth	loamy	9.7 ± 2.7	550 ± 14	559.7	0.11	Brownish black	Faint earth	Loamy	5.5 ± 1.7	210 ± 6.2	215.5	0.08		
					2024/7/31	Sunny	29.9	Brownish black	Faint earth	loamy	32 ± 6.2	1,800 ± 44	1,832	0.12	Brownish black	Faint earth	Loamy	< 9.1	380 ± 14	380	0.07		
					2024/8/20	Sunny	25.8	Dark brown	Faint earth	loamy	15 ± 2.9	1,400 ± 25	1,415	0.10	Brownish black	Faint earth	Loamy	16 ± 3.4	1,100 ± 28	1,116	0.07		
					2024/9/17	Cloudy	21.4	Brownish black	Faint earth	loamy	30 ± 5.8	2,500 ± 48	2,530	0.12	Brownish black	Faint earth	Loamy	< 8.0	250 ± 11	250	0.07		
	6	Yosasa River	Yosasa Bridge	Nasu Town	2024/5/8	Sunny	17.0	Dark brown	Faint earth	loamy	28 ± 4.3	1,400 ± 28	1,428	0.11	Dull yellow brown	Faint earth	Loamy	68 ± 7.5	4,000 ± 51	4,068	0.10		
					2024/8/10	Sunny	28.7	Dark brown	Faint earth	loamy	16 ± 3.4	1,000 ± 23	1,016	0.10	Dark brown	Faint earth	Loamy	35 ± 8.1	2,000 ± 49	2,035	0.09		
	7	Kurokawa River	Shinden Bridge	Nasu Town	2024/5/8	Light Rain	15.0	Dark brown	Faint earth	loamy	54 ± 6.8	3,400 ± 49	3,454	0.12	Dark brown	Faint earth	Loamy	17 ± 5.5	1,500 ± 32	1,517	0.11		
					2024/8/10	Sunny	29.9	Dark brown	Faint earth	loamy	17 ± 3.8	1,500 ± 28	1,517	0.12	Dark brown	Faint earth	Loamy	23 ± 5.2	1,000 ± 35	1,023	0.10		
	8	Yosasa River	Kawada Bridge	Nasu Town	2024/5/9	Light Rain	8.0	Dark brown	Faint earth	loamy	12 ± 3.8	1,000 ± 21	1,012	0.08	Dark brown	Faint earth	Loamy	14 ± 3.5	850 ± 19	864	0.10		
					2024/6/26	Sunny	28.8	Dark brown	Faint earth	loamy	29 ± 4.7	1,300 ± 24	1,329	0.09	Dark brown	Faint earth	Loamy	9.4 ± 2.7	790 ± 14	799.4	0.09		
					2024/7/25	Sunny	31.7	Dull yellow brown	Faint earth	loamy	< 9.9	900 ± 18	900	0.08	Dull yellow brown	Faint earth	Loamy	13 ± 2.5	910 ± 19	923	0.10		
					2024/8/10	Sunny	28.3	Dark brown	Faint earth	loamy	13 ± 3.2	830 ± 18	843	0.09	Dark brown	Faint earth	Loamy	21 ± 4.4	940 ± 26	961	0.08		
					2024/9/17	Cloudy	23.7	Brownish black	Faint earth	loamy	13 ± 2.8	870 ± 19	883	0.08	Dark brown	Faint earth	Loamy	18 ± 3.2	1,300 ± 24	1,318	0.07		
	9	Nakagawa River	Kurobane	Otawara City	2024/5/9	Light Rain	10.0	Dark brown	Faint earth	loamy	< 8.4	270 ± 9.6	270	0.07	Brownish black	Faint earth	Loamy	9.8 ± 2.5	710 ± 17	719.8	0.08		
					2024/6/27	Sunny	24.3	Brown	Faint earth	loamy	< 6.5	22 ± 3.6	22	0.07	Brownish black	Faint earth	Loamy	< 7.9	410 ± 14	410	0.07		
2024/7/25					Sunny	33.7	Dull yellow brown	Faint earth	loamy	< 5.1	33 ± 3.5	33	0.07	Dark brown	Faint earth	Loamy	9.8 ± 2.0	670 ± 15	679.8	0.06			
2024/8/10					Sunny	27.2	Dark brown	Faint earth	loamy	< 8.0	370 ± 13	370	0.07	Brownish black	Faint earth	Loamy	< 8.0	460 ± 12	460	0.07			
2024/9/17					Sunny	28.1	Brown	Faint earth	loamy	< 8.2	160 ± 8.9	160	0.05	Brownish black	Faint earth	Loamy	< 9.1	520 ± 12	520	0.08			
10	Matsuba River	Tributary	Otawara City	2024/5/9	Cloudy	12.0	Brownish black	Faint earth	loamy	9.4 ± 2.3	530 ± 16	539.4	0.07	Dull yellow brown	Faint earth	Loamy	15 ± 3.0	1,200 ± 24	1,215	0.07			
				2024/6/27	Cloudy	27.1	Dark brown	Faint earth	loamy	< 8.5	360 ± 12	360	0.08	Dull yellow brown	Faint earth	Loamy	< 6.8	< 8.2	-	0.08			
				2024/7/25	Sunny	33.2	Dull yellow brown	Faint earth	loamy	< 9.2	460 ± 15	460	0.09	Dull yellow brown	Faint earth	Loamy	< 7.0	130 ± 7.2	130	0.07			
				2024/8/10	Sunny	29.9	Brownish black	Faint earth	loamy	< 8.7	450 ± 12	450	0.08	Brownish black	Faint earth	Loamy	17 ± 4.5	500 ± 16	517	0.07			
				2024/9/17	Sunny	28.6	Dark brown	Faint earth	loamy	< 8.4	490 ± 13	490	0.07	Dull yellow brown	Faint earth	Loamy	< 9.2	93 ± 7.3	93	0.07			
11	Sabigawa River	Udagawa Bridge	Nasu Town	2024/5/9	Sunny	15.0	Dull yellow brown	Faint earth	loamy	< 8.4	260 ± 12	260	0.05	Brownish black	Faint earth	Loamy	< 8.9	120 ± 8.3	120	0.06			
				2024/8/9	Sunny	34.3	Dull yellow brown	Faint earth	loamy	< 7.2	220 ± 9.1	220	0.05	Brownish black	Faint earth	Loamy	< 7.8	94 ± 6.5	94	0.06			
12	Momura River	Momuranaka Bridge	Nasu Town	2024/5/10	Sunny	23.3	Brownish black	Faint earth	loamy	26 ± 5.1	1,300 ± 28	1,326	0.07	Brownish black	Faint earth	Loamy	< 8.3	290 ± 14	290	0.06			
				2024/8/9	Sunny	31.2	Brownish black	Faint earth	loamy	< 6.7	200 ± 11	200	0.07	Dark brown	Faint earth	Loamy	8.8 ± 2.0	560 ± 14	568.8	0.07			
13	Hokigawa River	Yunohara	Nasushiobara City	2024/5/7	Light Rain	17.1	Brownish black	Faint earth	loamy	< 9.6	560 ± 13	560	0.08	Dark brown	Faint earth	Loamy	< 7.1	280 ± 10	280	0.06			
				2024/8/9	Cloudy	26.4	Brownish black	Faint earth	loamy	< 7.8	600 ± 15	600	0.07	Brownish black	Faint earth	Loamy	< 9.7	410 ± 14	410	0.06			
14	Hokigawa River	Sekiba Bridge	Nasushiobara City	2024/5/7	Light Rain	19.0	Black	Faint earth	loamy	31 ± 5.5	1,500 ± 38	1,531	0.12	Brownish black	Faint earth	Loamy	51 ± 7.4	3,300 ± 55	3,351	0.14			
				2024/8/9	Sunny	26.9	Black	Faint earth	loamy	31 ± 5.9	2,100 ± 43	2,131	0.10	Brownish black	Faint earth	Loamy	21 ± 5.4	1,200 ± 33	1,221	0.14			
15	Hokigawa River	Iwai Bridge	Otawara City	2024/5/7	Light Rain	19.0	Dull yellow brown	Faint earth	loamy	< 9.5	420 ± 15	420	0.06	Dark brown	Faint earth	Loamy	12 ± 2.5	840 ± 18	852	0.06			
				2024/8/9	Sunny	34.3	Dull yellow brown	Faint earth	loamy	7.5 ± 2.0	540 ± 17	547.5	0.06	Dull yellow brown	Faint earth	Loamy	< 8.3	510 ± 16	510	0.06			
				2024/5/7	Light Rain	19.6	Dark brown	Faint earth	loamy	12 ± 3.0	850 ± 22	862	0.07	Grayish brown	Faint earth	Loamy	< 9.2	270 ± 10	270	0.06			
				2024/6/27	Cloudy	29.0	Dull yellow brown	Faint earth	loamy	14 ± 2.7	1,000 ± 19	1,014	0.07	Brown	Faint earth	Loamy	< 8.2	300 ± 10	300	0.06			
				2024/7/25	Sunny	34.2	Dark brown	Faint earth	loamy	19 ± 2.1	1,100 ± 14	1,119	0.07	Brown	Faint earth	Loamy	10 ± 1.9	420 ± 10	430	0.06			
16	Hokigawa River	Hokigawa Bridge	Otawara City	2024/8/9	Sunny	33.7	Dull yellow brown	Faint earth	loamy	< 9.3	370 ± 15	370	0.05	Dull yellow brown	Faint earth	Loamy	< 8.5	250 ± 10	250	0.05			
				2024/9/17	Sunny	27.8	Dark brown	Faint earth	loamy	< 9.5	410 ± 16	410	0.06	Brown	Faint earth	Loamy	< 9.5	230 ± 11	230	0.06			
				2024/5/7	Cloudy	21.7	Dull yellow brown	Faint earth	loamy	< 9.0	63 ± 5.1	63	0.06	Dark brown	Faint earth	Loamy	5.1 ± 1.7	170 ± 7.2	175.1	0.06			
				2024/6/27	Sunny	30.0	Dull yellow brown	Faint earth	loamy	< 9.2	64 ± 5.8	64	0.05	Dark brown	Faint earth	Loamy	< 7.4	130 ± 8.2	130	0.06			
				2024/7/25	Sunny	32.8	Brown	Faint earth	loamy	< 4.7	22 ± 2.3	22	0.06	Dark brown	Faint earth	Loamy	< 5.1	190 ± 6.0	190	0.05			
17	Nakagawa River	Shinnaka Bridge	Nakagawa Town	2024/8/9	Sunny	33.6	Dull yellow brown	Faint earth	loamy	< 5.3	95 ± 5.1	95	0.04	Dark brown	Faint earth	Loamy	6.4 ± 1.8	290 ± 9.0	296.4	0.04			
				2024/9/17	Cloudy	26.7	Brown	Faint earth	loamy	< 7.5	19 ± 3.5	19	0.05	Dull yellow brown	Faint earth	Loamy	< 8.1	77 ± 5.4	77	0.04			
				2024/5/7	Light Rain	21.1	Brownish black	Faint earth	loamy	< 8.4	81 ± 6.1	81	0.07	Brownish black	Faint earth	Loamy	< 7.6	75 ± 6.5	75	0.07			
				2024/6/27	Sunny	31.7	Brownish black	Faint earth	loamy	< 9.5	86 ± 6.9	86	0.08	Brownish black	Faint earth	Loamy	< 8.9	140 ± 8.9	140	0.06			
				2024/7/25	Cloudy	31.4	Grayish yellow brown	Faint earth	loamy	< 5.2	130 ± 5.4	130	0.07	Dark brown	Faint earth	Loamy	< 4.4	130 ± 4.5	130	0.07			
18	Mumogawa River	Kosei Bridge	Nakagawa Town	2024/8/9	Sunny	32.3	Brownish black	Faint earth	loamy	< 8.1	100 ± 6.9	100	0.05	Dark brown	Faint earth	Loamy	< 8.6	140 ± 9.4	140	0.04			
				2024/9/17	Sunny	28.8	Brownish black	Faint earth	loamy	< 9.3	110 ± 8.5	110	0.06	Dark brown	Faint earth	Loamy	< 6.1	87 ± 5.4	87	0.06			
				2024/5/8	Sunny	17.6	Dull yellow brown	Faint earth	loamy	< 9.1	340 ± 12	340	0.08	Grayish yellow brown	Faint earth	Loamy	19 ± 4.1	750 ± 23	769	0.06			
				2024/8/8	Sunny	32.1	Dark brown	Faint earth	loamy	< 7.6	250 ± 9.6	250	0.07	Dull yellow brown	Faint earth	Loamy	< 8.0	500 ± 14	500	0.06			
				2024/6/27	Sunny	31.7	Brownish black	Faint earth	loamy	< 9.5	86 ± 6.9												

Tochigi River (SE) 2/3

No.	Location			Sampling Date	Weather	Air temperature (°C)	Surrounding Environment (Soil, Air, dose)										Remarks				
	Water Area	Location	Municipality				Left bank			Right bank											
							Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air dose (μSv/h)	Color	Odor	Property		Activity concentration [Bq/kg(dry)]			
										Radioactive cesium								Radioactive cesium			
			Cs-134	Cs-137	Total	Cs-134	Cs-137	Total				Cs-134	Cs-137	Total	Air dose (μSv/h)						
25	Kinugawa River	Kawaji Daichi Power Station, front		2024/5/17	Sunny	22.0	Dark brown	Faint earth	loamy	11 ± 2.8	510 ± 13	521	0.09	Brownish black	Faint earth	Loamy	11 ± 2.4	530 ± 13	541	0.08	
				2024/8/9	Sunny	32.4	Brownish black	Faint earth	loamy	< 7.9	500 ± 13	500	0.08	Brownish black	Faint earth	Loamy	< 9.6	120 ± 6.5	120	0.05	
26	Yunishi River	Maesawa Bridge		2024/5/17	Sunny	20.0	Brownish black	Faint earth	loamy	< 7.1	150 ± 8.0	150	0.06	Brownish black	Faint earth	Loamy	< 9.0	92 ± 7.1	92	0.04	
				2024/8/9	Sunny	30.4	Dark brown	Faint earth	loamy	< 9.6	150 ± 8.4	150	0.07	Brownish black	Faint earth	Loamy	< 6.7	16 ± 2.7	16	0.09	
27	Ojika River	Tributary		2024/5/15	Sunny	23.0	Brownish black	Faint earth	loamy	51 ± 7.3	3,500 ± 44	3,551	0.11	Dull yellow brown	Faint earth	Sandy	< 7.2	23 ± 3.1	23	0.10	
				2024/8/9	Sunny	32.1	Brownish black	Faint earth	loamy	45 ± 7.6	2,600 ± 52	2,645	0.10	Dull yellow brown	Faint earth	Loamy	< 8.8	350 ± 11	350	0.06	
28	Kinugawa River	Kosagoe		2024/5/15	Sunny	23.0	Brownish black	Faint earth	loamy	29 ± 5.2	1,900 ± 40	1,929	0.09	Brownish black	Faint earth	Loamy	< 9.3	160 ± 8.2	160	0.06	
				2024/8/9	Sunny	32.2	Brownish black	Faint earth	loamy	16 ± 3.4	1,200 ± 22	1,216	0.11	Dark brown	Faint earth	Loamy	< 5.6	26 ± 3.1	26	0.06	
29	Itaana River	Tributary	Nikko City	2024/5/14	Sunny	16.0	Brownish black	Faint earth	loamy	27 ± 4.8	1,600 ± 31	1,627	0.10	Dark brown	Faint earth	Loamy	< 9.2	200 ± 11	200	0.10	
				2024/6/28	Light Rain	20.9	Brownish black	Faint earth	loamy	21 ± 4.7	1,300 ± 33	1,321	0.10	Dark brown	Faint earth	Loamy	< 9.1	290 ± 11	290	0.08	
30	Yukawa River	Tributary		2024/7/31	Sunny	26.3	Brownish black	Faint earth	loamy	27 ± 4.9	1,300 ± 32	1,327	0.11	Dark brown	Faint earth	Loamy	< 7.2	92 ± 6.9	92	0.08	
				2024/8/19	Sunny	28.1	Brownish black	Faint earth	loamy	16 ± 4.3	910 ± 23	926	0.11	Dark brown	Faint earth	Loamy	< 7.8	29 ± 3.8	29	0.07	
31	Daiya River	Shinkyo Bridge		2024/9/18	Sunny	28.4	Brownish black	Faint earth	loamy	16 ± 3.5	1,200 ± 26	1,216	0.09	Dark brown	Faint earth	Loamy	< 6.4	250 ± 9.4	250	0.05	(Right bank)Unable to collect samples due to location inaccessibility.*
				2024/8/8	Sunny	27.6	Dark brown	Faint earth	loamy	< 5.4	20 ± 2.5	20	0.04	-	-	-	-	-	-	-	(Right bank)Unable to collect samples due to location inaccessibility.*
32	Shidobuchi River	Sujichigai Bridge		2024/5/9	Light Rain	6.3	Brownish black	Faint earth	loamy	5.7 ± 1.3	210 ± 7.1	215.7	0.06	Brownish black	Faint earth	Loamy	19 ± 3.3	890 ± 16	909	0.06	
				2024/8/8	Sunny	31.8	Brownish black	Faint earth	loamy	< 7.9	140 ± 6.7	140	0.07	Brownish black	Faint earth	Loamy	< 9.3	490 ± 15	490	0.07	
33	Daiya River	Kaishin Bridge (Harigai)		2024/5/9	Light Rain	11.0	Dark brown	Faint earth	loamy	11 ± 2.4	540 ± 13	551	0.09	Brownish black	Faint earth	Loamy	18 ± 4.1	1,200 ± 27	1,218	0.09	
				2024/8/8	Sunny	29.4	Dark brown	Faint earth	loamy	< 9.1	350 ± 12	350	0.08	Brownish black	Faint earth	Loamy	22 ± 4.2	1,200 ± 27	1,222	0.08	
34	Kinugawa River	Sanuki	Shioya Town	2024/5/8	Cloudy	19.0	Brownish black	Faint earth	loamy	< 6.8	86 ± 5.6	86	0.05	Brownish black	Faint earth	Sandy	< 7.3	59 ± 5.7	59	0.06	
				2024/6/28	Light Rain	22.3	Brownish black	Faint earth	loamy	< 4.7	51 ± 3.7	51	0.06	Brownish black	Faint earth	Loamy	< 6.9	56 ± 4.2	56	0.06	
35	Nishi-Kinugawa River	Nishi-Kinugawa Bridge	Utsunomiya City	2024/7/31	Sunny	27.8	Brownish black	Faint earth	loamy	< 9.2	36 ± 4.4	36	0.05	Brownish black	Faint earth	Loamy	< 9.5	88 ± 7.2	88	0.05	
				2024/8/19	Sunny	28.1	Brownish black	Faint earth	loamy	< 8.1	33 ± 4.4	33	0.05	Grayish yellow brown	Faint earth	Loamy	< 8.3	100 ± 6.0	100	0.05	
36	Kinugawa River	Kinugawa Bridge (Shobakiji Temple)		2024/9/18	Sunny	28.2	Brownish black	Faint earth	loamy	< 9.3	66 ± 6.5	66	0.05	Grayish yellow brown	Faint earth	Loamy	< 7.9	110 ± 7.0	110	0.06	
				2024/5/8	Cloudy	19.4	Dark brown	Faint earth	loamy	< 6.6	170 ± 9.4	170	0.07	Brownish black	Faint earth	Loamy	12 ± 2.4	610 ± 16	622	0.09	
37	Kinugawa River	Daidoizumi Bridge	Mooka City	2024/6/28	Cloudy	22.8	Brownish black	Faint earth	loamy	< 5.5	100 ± 5.1	100	0.06	Dark brown	Faint earth	Loamy	19 ± 3.1	1,100 ± 19	1,119	0.09	
				2024/7/31	Sunny	29.5	Brownish black	Faint earth	loamy	< 8.9	370 ± 12	370	0.06	Dark brown	Faint earth	Loamy	19 ± 4.1	1,400 ± 30	1,419	0.08	
38	Egawa River	Tributary	Shimotsuke City	2024/8/19	Sunny	32.5	Dark brown	Faint earth	loamy	< 9.3	510 ± 17	510	0.08	Dark brown	Faint earth	Loamy	21 ± 4.4	1,900 ± 35	1,921	0.08	
				2024/9/18	Sunny	27.6	Brownish black	Faint earth	loamy	< 9.2	450 ± 13	450	0.06	Dark brown	Faint earth	Loamy	23 ± 3.9	1,100 ± 24	1,123	0.09	
39	Akabori River	Nikko City Hall, front	Nikko City	2024/5/8	Cloudy	21.3	Dark brown	Faint earth	loamy	< 8.3	160 ± 8.5	160	0.06	Brownish black	Faint earth	Loamy	< 6.6	170 ± 8.3	170	0.06	
				2024/8/8	Cloudy	32.0	Dark brown	Faint earth	loamy	< 9.7	140 ± 9.6	140	0.04	Brownish black	Faint earth	Loamy	< 9.6	160 ± 9.1	160	0.04	
40	Kinugawa River	Kiwadajima		2024/5/8	Cloudy	22.2	Dull yellow brown	None	sandy	< 6.4	16 ± 3.1	16	0.06	Dull yellow brown	Faint earth	Loamy	< 6.3	77 ± 4.7	77	0.05	
				2024/8/8	Sunny	33.7	Grayish yellow brown	None	sandy	< 3.9	< 5.6	-	0.05	Dull yellow brown	Faint earth	Sandy	< 6.0	39 ± 3.7	39	0.05	
41	Tagawa River	Ozobashi Bridge	Utsunomiya City	2024/5/9	Sunny	19.6	Dark brown	Faint earth	loamy	< 6.3	160 ± 7.4	160	0.06	Dark brown	Faint earth	Loamy	< 8.2	24 ± 3.9	24	0.06	
				2024/8/8	Sunny	35.8	Grayish yellow brown	Faint earth	loamy	< 5.7	180 ± 7.0	180	0.06	Grayish yellow brown	Faint earth	Loamy	< 4.7	9.8 ± 2.0	9.8	0.05	
42	Kamagawa River	Tsukushi Bridge		2024/5/9	Sunny	19.7	Brownish black	Faint earth	loamy	< 7.6	430 ± 11	430	0.06	Dark brown	Faint earth	Loamy	< 7.6	100 ± 7.3	100	0.06	
				2024/6/28	Light Rain	27.4	Brownish black	Faint earth	loamy	< 8.6	440 ± 13	440	0.06	Dark brown	Faint earth	Loamy	< 7.1	100 ± 6.8	100	0.07	
43	Tagawa River	Meiji Bridge	Kaminokawa Town	2024/7/30	Sunny	37.2	Brownish black	Faint earth	loamy	< 9.1	390 ± 12	390	0.05	Dark brown	Faint earth	Loamy	< 8.9	78 ± 6.5	78	0.06	
				2024/8/19	Sunny	33.3	Dark brown	Faint earth	loamy	< 7.7	140 ± 9.2	140	0.06	Dull yellow brown	Faint earth	Loamy	< 9.8	64 ± 5.9	64	0.05	
44	Yanabashi Bridge	Oyama City		2024/9/17	Sunny	32.8	Dark brown	Faint earth	loamy	< 8.0	150 ± 8.9	150	0.06	Dark brown	Faint earth	Loamy	< 8.9	52 ± 5.2	52	0.05	
				2024/5/9	Cloudy	11.3	-	-	-	-	-	-	-	Brownish black	Faint earth	Loamy	< 9.1	530 ± 14	530	0.06	(Left bank)Unable to collect samples due to location inaccessibility.*
45	Kurokawa River	Kaijima Bridge	Kanuma City	2024/8/8	Sunny	29.1	-	-	-	-	-	-	-	Brownish black	Faint earth	Loamy	< 8.0	74 ± 6.0	74	0.05	(Left bank)Unable to collect samples due to location inaccessibility.*
				2024/5/9	Sunny	15.8	Brownish black	Faint earth	loamy	< 8.9	15 ± 3.1	15	0.06	Brownish black	Faint earth	Loamy	< 7.6	46 ± 4.3	46	0.06	
46	Onari Bridge	Mibu Town		2024/8/8	Sunny	32.2	Brownish black	Faint earth	loamy	< 6.4	< 6.4	-	0.06	Dark brown	Faint earth	Loamy	< 8.9	< 8.8	-	0.05	
				2024/5/8	Light Rain	18.3	Brownish black	Faint earth	loamy	< 7.4	250 ± 8.6	250	0.06	Brownish black	Faint earth	Loamy	< 9.8	470 ± 17	470	0.05	
47	Oashi River	Akaishi Bridge	Kanuma City	2024/6/28	Light Rain	24.5	Brownish black	Faint earth	loamy	< 9.3	270 ± 12	270	0.06	Brownish black	Faint earth	Loamy	< 7.7	340 ± 11	340	0.06	
				2024/7/31	Sunny	34.5	Brownish black	Faint earth	loamy	< 6.4	240 ± 11	240	0.06	Grayish yellow brown	Faint earth	Loamy	11 ± 2.7	420 ± 15	431	0.06	
48	Koyabu River	Koyabu Bridge		2024/8/20	Sunny	26.4	Brownish black	Faint earth	loamy	< 9.1	180 ± 9.5	180	0.05	Brownish black	Faint earth	Loamy	14 ± 2.6	940 ± 18	954	0.06	
				2024/9/18	Sunny	29.6	Brownish black	Faint earth	loamy	< 8.4	180 ± 9.7	180	0.04	Brownish black	Faint earth	Loamy	39 ± 5.3	3,000 ± 39	3,039	0.06	
49	Omioi River	Tamotsu Bridge	Tochigi City	2024/5/9	Cloudy	10.4	Brownish black	Faint earth	loamy	< 9.0	92 ± 6.8	92	0.06	Brownish black	Faint earth	Loamy	< 8.9	270 ± 11	270	0.06	
				2024/8/9	Sunny	29.4	Dull yellow brown	Faint earth	loamy	< 8.0	30 ± 4.9	30	0.06	Brownish black	Faint earth	Loamy	< 8.7	240 ± 9.8	240	0.07	
50	Omioi River	Otome-ohashi Bridge	Oyama City	2024/5/9	Sunny	19.6	Grayish yellow brown	Faint earth	loamy	< 8.5	470 ± 14	470	0.06	Brownish black	Faint earth	Loamy	< 8.4	320 ± 11	320	0.05	
				2024/8/8	Sunny	33.7	Dark grayish yellow	Faint earth	loamy	< 8.7	460 ± 13	460	0.05	Grayish yellow brown	Faint earth	Loamy	< 7.1	230 ± 10	230	0.05	
50	Omioi River	Otome-ohashi Bridge	Oyama City	2024/5/10	Sunny	17.5	Dark brown	Faint earth	loamy	< 9.3	47 ± 5.7	47	0.05	Dark brown	Faint earth	Loamy	< 8.4	140 ± 7.5	140	0.05	
				2024/8/8	Sunny	33.4	Dull yellow brown	Faint earth	loamy	< 9.7	77 ± 7.0	77	0.05	Grayish yellow brown	Faint earth	Loamy	< 7.8	150 ± 8.8	150	0.05	
50	Omioi River	Otome-ohashi Bridge	Oyama City	2024/5/10	Sunny	13.5	Brownish black	Faint earth	loamy	< 8.6	230 ± 11	230	0.06	Brownish black	Faint earth	Loamy	9.4 ± 2.1	720 ± 15	729.4	0.06	
				2024/8/9	Sunny	34.2	Brownish black	Faint earth	loamy	< 6.7	210 ± 10	210	0.06	Dark brown	Faint earth	Loamy	< 8.4	260 ± 10	260	0.06	
50	Omioi River	Otome-ohashi Bridge	Oyama City	2024/5/9	Cloudy	18.2	Brownish black	Faint earth	loamy	< 7.0	180 ± 6.9	180	0.06	Dark brown	Faint earth	Loamy	< 9.6	61 ± 6.1	61	0.07	
				2024/8/9	Sunny	28.9	Dark brown	Faint earth													

Tochigi River(SE) 3/3

Rivers	Location					Sampling Date	Weather	Air temperature (C)	Surrounding Environment(Soil,Air dose)													Remarks	
	No.	Water Area		Location	Municipality				Left bank				Right bank										
		Color	Odor						Property	Activity concentration [Bq/kg(dry)]			Air dose (μSv/h)	Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air dose (μSv/h)			
										Radioactive cesium							Radioactive cesium						
Cs-134			Cs-137			Total	Cs-134			Cs-137			Total										
51	Uzuma River	Uzuma Bridge	Tochigi City	2024/5/17	Sunny	30.5	Dark brown	Faint earth	loamy	< 8.0	73 ± 5.7	73	0.06	Dull yellow brown	Faint earth	Loamy	< 7.4	65 ± 5.5	65	0.05			
				2024/6/28	Light Rain	23.5	Dark brown	Faint earth	loamy	< 7.7	100 ± 6.6	100	0.07	Dark brown	Faint earth	Loamy	< 8.1	100 ± 6.8	100	0.06			
				2024/7/30	Sunny	34.6	Dark brown	Faint earth	loamy	< 7.8	63 ± 6.6	63	0.06	Brown	Faint earth	Loamy	< 7.5	71 ± 5.5	71	0.06			
				2024/8/19	Sunny	30.5	Dark brown	Faint earth	loamy	< 8.3	88 ± 6.0	88	0.06	Grayish yellow brown	Faint earth	Loamy	< 8.2	120 ± 7.4	120	0.05			
	2024/9/18	Cloudy	32.1	Dark brown	Faint earth	loamy	< 8.8	130 ± 8.0	130	0.06	Dull yellow brown	Faint earth	Loamy	< 9.3	120 ± 8.6	120	0.04						
	52	Watarase River intake weir at Sori Power Station	Nikko City	2024/5/29	Sunny	23.0	Grayish yellow brown	Faint earth	sandy	< 6.8	130 ± 6.2	130	0.13	Dark brown	Faint earth	Loamy	< 7.6	280 ± 10	280	0.14			
				2024/6/27	Cloudy	28.7	Grayish yellow brown	Faint earth	sandy	< 8.2	230 ± 11	230	0.12	Dark brown	Faint earth	Loamy	7.3 ± 1.7	390 ± 11	397.3	0.11			
				2024/7/19	Cloudy	25.0	Grayish yellow brown	Faint earth	sandy	3.8 ± 1.2	130 ± 3.8	133.8	0.12	Brownish black	Faint earth	Loamy	< 6.2	370 ± 7.8	370	0.12			
				2024/8/8	Sunny	29.4	Dark brown	Faint earth	sandy	14 ± 2.5	580 ± 13	594	0.14	Brownish black	Faint earth	Loamy	< 9.4	330 ± 11	330	0.15			
	2024/9/18	Sunny	28.5	Grayish yellow brown	Faint earth	sandy	< 9.5	320 ± 13	320	0.12	Dull yellow brown	Faint earth	Loamy	< 6.8	180 ± 9.1	180	0.13						
	53	Hajika Bridge	Ashikaga City	2024/5/16	Cloudy	20.8	Dark brown	Faint earth	loamy	< 8.9	96 ± 7.4	96	0.04	Dark brown	Faint earth	Loamy	< 7.5	160 ± 8.8	160	0.05			
				2024/8/7	Sunny	30.4	Dull yellow brown	Faint earth	loamy	< 9.1	99 ± 7.6	99	0.04	Dull yellow brown	Faint earth	Loamy	< 7.8	100 ± 7.1	100	0.06			
	54	Nakabashi Bridge	Ashikaga City	2024/5/16	Sunny	25.3	Dull yellow brown	Faint earth	loamy	< 7.6	110 ± 7.6	110	0.05	Dull yellow brown	Faint earth	Loamy	< 6.9	< 8.6	-	0.05			
				2024/8/7	Sunny	34.5	Brown	Faint earth	loamy	< 9.6	100 ± 7.7	100	0.05	Brown	Faint earth	Loamy	< 7.6	130 ± 9.1	130	0.05			
	55	Watarase-ohashi Bridge	Tatebayashi City	2024/5/17	Sunny	21.3	Brownish black	Faint earth	loamy	< 10	140 ± 9.4	140	0.07	Brownish black	Faint earth	Loamy	< 8.9	70 ± 6.2	70	0.06			
				2024/8/7	Sunny	31.4	Brown	Faint earth	loamy	< 7.4	72 ± 5.3	72	0.06	Dark brown	Faint earth	Loamy	< 6.9	41 ± 4.0	41	0.06			
56	Shinkai Bridge	Tochigi City	2024/5/17	Sunny	25.3	Brownish black	Faint earth	loamy	< 8.3	73 ± 5.7	73	0.05	Brownish black	Faint earth	Loamy	< 7.4	200 ± 9.0	200	0.05				
			2024/6/28	Light Rain	22.5	Brownish black	Faint earth	loamy	< 8.9	84 ± 7.2	84	0.06	Brownish black	Faint earth	Loamy	< 6.3	97 ± 5.3	97	0.05				
			2024/7/30	Sunny	35.5	Dark brown	Faint earth	loamy	< 9.2	74 ± 6.2	74	0.06	Dark brown	Faint earth	Loamy	< 8.2	150 ± 7.9	150	0.06				
			2024/8/19	Sunny	28.6	Dark brown	Faint earth	loamy	< 8.5	69 ± 6.0	69	0.06	Brownish black	Faint earth	Loamy	< 8.4	150 ± 8.5	150	0.05				

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

Tochigi Lakes(Water) 1/2

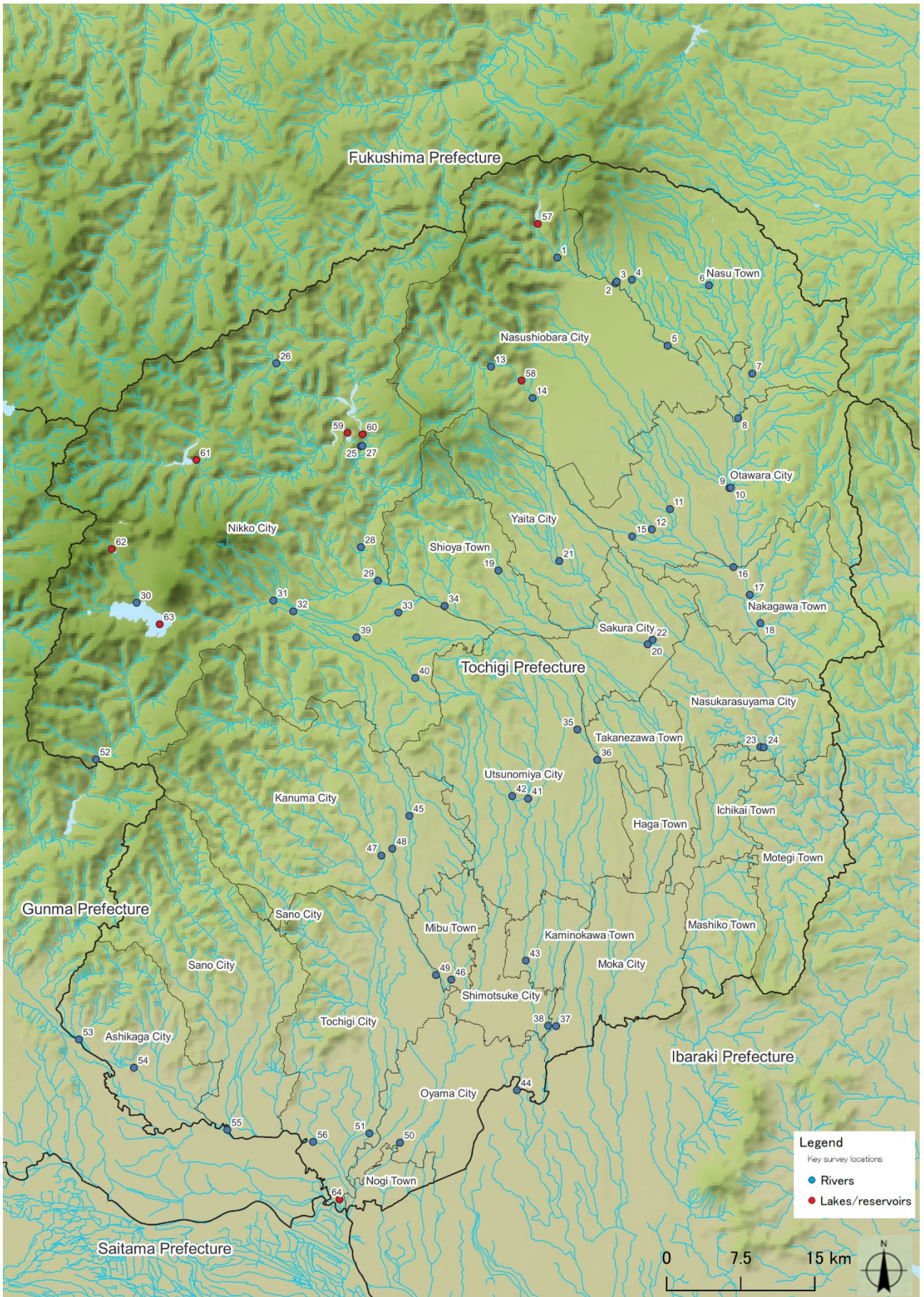
No.	Water Area	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water										Remarks									
		Location	Municipality	Surface layer/ Deep layer					General items							Activity concentration(Bq/L)												
									Water temperature (°C)	Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Cs-134	Cs-137										
57	Nakagawa River System	Miyama Dam Reservoir	Center	Nasushiobara City	Surface layer	2024/5/13	Light Rain	19.0	47.7	11.9	0.5	Dark grayish green	None	5.0	6.0	<1	0.6	< 0.72	< 0.81									
					Deep layer					10.1	46.7	-	None		4.4	2	0.9	< 0.59	< 1.0									
					Surface layer	2024/8/20	Sunny	28.9	37.6	24.7	0.5	Dark grayish green	None	6.0	7.9	<1	0.2	< 0.76	< 0.68									
					Deep layer					14.4	36.6	-	None		7.2	<1	0.6	< 0.88	< 0.64									
					Surface layer	2024/10/7	Cloudy	19.5	36.2	19.1	0.5	Dark grayish green	None	7.0	7.7	<1	0.6	< 0.64	< 0.66									
					Deep layer					15.8	35.2	-	None		8.6	2	2.0	< 0.76	< 0.78									
		Surface layer	2024/12/16		Sunny	4.3	43.3	6.8	0.5	Dark grayish green	None	6.0	8.2	<1	0.6	< 0.59	< 0.52											
		Deep layer						5.3	42.3	-	None		8.1	<1	0.5	< 0.56	< 0.79											
		58	Nakagawa River System		Shiobara Dam Reservoir	Center	Nasushiobara City	Surface layer	2024/5/14	Sunny	22.0	29.1	18.6	0.5	Grayish yellow green	None	4.0	12.9	<1		1.0	< 0.73	< 0.81					
								Deep layer					13.1	28.1	-	None		12.4	2		1.8	< 0.70	< 0.74					
								Surface layer	2024/8/19	Cloudy	31.5	14.9	27.8	0.5	Dark grayish greenish yellow	None	1.5	17.8	3		1.6	< 0.58	< 0.75					
								Deep layer					25.1	13.9	-	None		18.0	4		2.2	< 0.88	< 0.88					
Surface layer	2024/10/7			Cloudy				21.5	17.2	21.0	0.5	Grayish yellow green	None	4.0	15.7	<1	0.9	< 0.66	< 0.75									
Deep layer										19.3	16.2	-	None		15.7	2	2.1	< 0.75	< 0.73									
Surface layer	2024/12/16			Sunny	11.2	21.2		8.5	0.5	Dark grayish yellow green	None	2.0	16.8	2	2.2	< 0.69	< 0.72											
Deep layer								7.6	20.2	-	None		16.5	3	1.9	< 0.69	< 0.59											
59	Kinugawa River System			Kawaji Dam Reservoir	Center	Nikko City		Surface layer	2024/5/16	Light Rain	17.0	85.0	16.3	0.5	Grayish yellow green	None	5.0	5.7	<1	0.3	< 0.75	< 0.72						
								Deep layer					5.9	84.0	-	None		6.7	<1	0.9	< 0.90	< 0.72						
								Surface layer	2024/8/20	Sunny	29.1	-	-	-	-	-	-	-	-	-	-	-			-	-	-	Unable to collect samples due to drought, drainage, freezing, etc.
								Deep layer					-	-	-	-	-	-	-	-	-	-			-	-	-	-
		Surface layer	2024/10/8				Light Rain	16.5	64.5	19.5	0.5	Light grayish yellow green	None	7.0	7.5	<1	0.4	< 0.77	< 0.73									
		Deep layer								7.5	63.5	-	None		8.8	5	4.1	< 0.79	< 0.64									
		Surface layer	2024/12/17	Sunny	7.9		72.6	9.9	0.5	Grayish yellowish green	None	4.5	7.6	<1	0.9	< 0.94	< 0.64											
		Deep layer						6.5	71.6	-	None		8.2	4	1.1	< 0.69	< 0.59											
		60	Kinugawa River System	Ikari Dam Reservoir	Center		Nikko City	Surface layer	2024/5/16	Light Rain	16.0	58.7	16.2	0.5	Dark grayish greenish yellow	None	5.0	5.5	<1	0.7	< 0.65	< 0.50						
								Deep layer					7.4	57.7	-	None		6.1	2	1.2	< 0.72	< 0.68						
								Surface layer	2024/8/20	Light Rain	27.8	50.1	27.1	0.5	Grayish yellow green	None	5.0	6.2	<1	0.4	< 0.80	< 0.73						
								Deep layer					7.9	49.1	-	None		5.9	<1	1.1	< 0.88	< 0.76						
Surface layer	2024/10/8					Cloudy		17.3	52.4	19.7	0.5	Dark grayish greenish yellow	None	6.0	5.8	<1	0.7	< 0.69	< 0.86									
Deep layer										11.6	51.4	-	None		6.5	<1	2.3	< 0.63	< 0.70									
Surface layer	2024/12/26			Cloudy	0.0	58.5		5.6	0.5	Dark grayish greenish yellow	None	5.0	5.5	<1	1.0	< 0.68	< 0.61											
Deep layer								5.1	57.5	-	None		8.1	3	4.5	< 0.76	< 0.76											
61	Kinugawa River System			Kawamata Dam Reservoir	Center	Nikko City		Surface layer	2024/5/28	Light Rain	17.0	67.0	17.2	0.5	Grayish yellow green	None	6.0	8.2	<1	0.8	< 0.55	< 0.54						
								Deep layer					6.5	66.0	-	None		9.4	<1	0.8	< 0.72	< 0.68						
								Surface layer	2024/8/21	Sunny	28.6	25.5	27.3	0.5	Grayish yellow green	None	3.0	11.2	<1	0.5	< 0.71	< 0.75						
								Deep layer					23.3	24.5	-	None		11.5	3	1.2	< 0.63	< 0.74						
		Surface layer	2024/10/8				Light Rain	16.1	72.0	20.3	0.5	Grayish yellow green	None	5.0	11.1	<1	0.7	< 0.89	< 0.73									
		Deep layer								7.8	71.0	-	None		12.4	2	3.6	< 0.66	< 0.85									
		Surface layer	2024/12/17	Sunny	4.0		78.3	9.9	0.5	Dark grayish yellow green	None	5.0	11.3	<1	0.3	< 0.49	< 0.79											
		Deep layer						6.3	77.3	-	None		11.4	<1	0.8	< 0.76	< 0.72											
		62	Kinugawa River System	Lake Yunoko	Center		Nikko City	Surface layer	2024/5/28	Light Rain	17.0	13.3	14.3	0.5	Grayish yellow green	None	5.0	14.4	3	1.8	< 0.73	< 0.75						
								Deep layer					12.3	12.3	-	None		14.0	3	1.3	< 0.78	< 0.66						
								Surface layer	2024/8/21	Sunny	28.6	12.4	22.1	0.5	Grayish yellow green	None	2.5	15.1	<1	0.2	< 0.73	< 0.69						
								Deep layer					12.9	11.4	-	None		18.6	5	3.2	< 0.79	< 0.72						
Surface layer	2024/10/9					Light Rain		9.0	13.3	14.1	0.5	Grayish yellow green	None	3.0	14.9	<1	1.1	< 0.92	< 0.77									
Deep layer										12.0	12.3	-	None		18.0	2	1.9	< 0.72	< 0.88									
Surface layer	2024/12/17			Cloudy	0.3	12.7		2.0	0.5	Grayish yellow green	None	4.0	17.1	<1	0.9	< 0.73	< 0.68											
Deep layer								2.5	11.7	-	None		17.2	2	1.0	< 0.76	< 0.68											

Tochigi Lakes (Sediment) 1/1

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						General items										Sediment content (%)	Density (Mg/m ³)	Property	Radioactive cesium					
									Sample length (cm)	Color	Odor	Grain size distribution(%)						Coarse sand				Medium sand	Fine sand	silt	clay	Cs-134	
Lakes and Reservoirs	Nakagawa River System	Miyama Dam Reservoir	Center	Nasushiobara City	2024/5/13	Light Rain	19.0	47.7				10.5	4	Dark olive	None	0.0	0.0		0.0	0.0	0.2						0.5
					2024/8/20	Sunny	28.9	37.6	16.8	3	Grayish olive	Faint hydrogen sulfide	0.0	0.0	0.0	0.0	0.2	0.4	44.5	54.9	33.5	2.64	silt	< 9.8	310 ± 10	310	
					2024/10/7	Cloudy	19.5	36.2	14.6	3	Dark olive	None	0.0	0.0	0.0	0.0	0.1	0.6	52.5	46.8	35.0	2.60	silt	< 8.8	570 ± 14	570	
		2024/12/16	Sunny		4.3	43.3	4.8	3	Dark olive	None	0.0	0.0	0.0	0.0	0.2	0.7	47.2	51.9	36.2	2.57	silt	< 7.2	140 ± 6.1	140			
		2024/5/14	Sunny		22.0	29.1	9.4	2	Dark olive brown	None	0.0	0.0	0.0	0.0	2.6	43.5	33.5	20.4	52.5	2.60	silt/sand	< 6.6	140 ± 6.2	140			
		2024/8/19	Cloudy		31.5	14.9	14.5	3	Dark grayish yellow	Faint hydrogen sulfide	0.0	0.0	0.0	0.0	0.8	30.7	45.8	22.7	44.4	2.61	silt/sand	< 8.7	210 ± 9.0	210			
	Kinugawa River System	Shiobara Dam Reservoir	Center	Nasushiobara City	2024/10/7	Cloudy	21.5	17.2	15.8	4	Brownish black	None	0.0	0.0	0.0	0.1	0.8	25.5	41.4	32.2	46.3	2.61	silt	< 9.3	190 ± 11	190	
					2024/12/16	Sunny	11.2	21.2	7.6	3	Dark olive brown	None	0.0	0.0	0.0	0.3	11.3	24.1	36.8	27.5	37.4	2.57	silt/sand	< 9.0	130 ± 8.1	130	
					2024/5/16	Light Rain	17.0	85.0	4.7	3	Dark olive	None	0.0	0.0	0.0	0.0	0.1	0.9	30.8	68.2	32.0	2.66	silt	< 9.0	110 ± 6.7	110	
		2024/8/20	Sunny		29.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Unable to collect samples due to drought, drainage, freezing, etc.
		2024/10/8	Light Rain		16.5	64.5	8.6	4	Dark olive	None	0.0	0.0	0.0	0.1	1.4	5.6	36.3	56.6	32.4	2.64	silt	< 9.4	91 ± 5.9	91			
		2024/12/17	Sunny		7.9	72.6	6.6	3	Grayish olive	None	0.0	0.0	0.0	0.2	2.2	7.2	19.8	70.6	33.5	2.65	silt	< 9.1	94 ± 6.1	94			
	Kinugawa River System	Kawaji Dam Reservoir	Center	Nikko City	2024/5/16	Light Rain	16.0	58.7	5.3	3	Dark olive	None	0.0	0.0	0.0	0.1	0.2	0.9	39.2	59.6	35.8	2.63	silt	< 8.1	150 ± 6.9	150	
					2024/8/20	Light Rain	27.8	50.1	10.4	3	Grayish olive	Faint hydrogen sulfide	0.0	0.0	0.0	0.0	0.1	0.1	33.6	66.2	42.3	2.69	silt	< 9.3	120 ± 7.3	120	
					2024/10/8	Cloudy	17.3	52.4	8.7	4	Dark olive	None	0.0	0.0	0.0	0.1	0.0	0.0	44.2	55.7	34.9	2.65	silt	< 9.3	150 ± 7.8	150	
		2024/12/26	Cloudy		0.0	58.5	4.8	3	Dark olive	None	0.0	0.0	0.0	0.0	0.1	0.1	36.7	63.1	26.5	2.66	silt	< 8.2	300 ± 10	300			
		2024/5/28	Light Rain		17.0	67.0	5.4	4	Dark olive	None	0.0	0.0	0.0	0.0	0.1	0.1	44.3	55.5	38.5	2.61	silt	< 9.1	36 ± 3.9	36			
		2024/8/21	Sunny		28.6	25.5	20.4	5	Grayish olive	None	0.0	0.0	0.0	0.0	0.1	0.1	32.3	67.5	36.8	2.67	silt	< 8.6	28 ± 3.2	28			
	Kinugawa River System	Ikari Dam Reservoir	Center	Nikko City	2024/10/8	Light Rain	16.1	72.0	7.5	4	Dark olive	None	0.0	0.0	0.0	0.0	0.1	0.1	46.6	53.2	37.8	2.64	silt	< 9.3	28 ± 3.7	28	
					2024/12/17	Sunny	4.0	78.3	5.0	5	Grayish olive	Faint hydrogen sulfide	0.0	0.0	0.0	0.0	0.1	0.4	26.0	73.5	31.5	2.66	silt	< 9.8	38 ± 4.1	38	
2024/5/28					Light Rain	17.0	13.3	9.0	4	Black	Faint hydrogen sulfide	0.0	0.0	0.0	0.4	0.2	0.3	52.5	46.6	18.1	2.32	silt	< 9.5	170 ± 6.5	170		
2024/8/21		Sunny	28.6		12.4	10.1	5	Black	None	0.0	0.0	0.0	0.0	0.2	0.2	24.2	75.4	17.4	2.41	silt	< 9.0	120 ± 5.2	120				
2024/10/9		Light Rain	9.0		13.3	10.8	4	Black	Faint hydrogen sulfide	0.0	0.0	0.0	0.1	0.2	0.2	41.1	58.4	10.2	2.33	silt	< 13 ± 4.3	240 ± 11	253				
2024/12/17		Cloudy	0.3		12.7	5.0	4	Black	Faint hydrogen sulfide	0.0	0.0	0.0	0.1	0.2	0.5	32.6	66.6	13.1	2.31	silt	< 9.5	340 ± 7.9	340				
Kinugawa River System	Lake Yunoko	Center	Nikko City	2024/5/15	Sunny	17.0	167.0	4.1	3	Black	Faint sewage	0.0	0.0	0.0	0.0	0.4	0.9	45.0	53.7	12.9	2.25	silt	< 8.4	320 ± 6.6	320		
				2024/8/21	Sunny	29.2	167.0	9.7	5	Black	Faint hydrogen sulfide	0.0	0.0	0.0	0.0	0.4	0.6	17.2	81.8	13.8	2.28	silt	7.1 ± 1.6	720 ± 9.1	727.1		
				2024/10/9	Light Rain	15.5	168.4	6.5	4	Black	Faint sewage	0.0	0.0	0.0	0.0	0.2	0.2	42.4	57.2	12.8	2.24	silt	11 ± 2.4	640 ± 10	651		
	2024/11/25	Sunny		6.1	169.5	4.1	3	Black	Faint sewage	0.0	0.0	0.0	0.1	0.1	0.8	26.2	72.8	11.3	2.22	silt	12 ± 3.4	1,100 ± 13	1,112				
	2024/5/24	Sunny		22.0	6.4	20.2	4	Dark grayish yellow	None	0.0	0.0	0.0	0.4	0.2	3.7	59.0	36.7	38.5	2.60	silt	< 9.2	80 ± 6.3	80				
	2024/9/18	Sunny		33.1	3.2	30.2	3	Olive black	None	0.0	0.0	0.0	0.5	0.2	1.5	62.5	35.3	39.9	2.63	silt	< 8.0	120 ± 7.1	120				
Watarase River System	Watarase Reservoir	Center	Tochigi City	2024/10/31	Sunny	13.3	6.5	19.9	3	Dark grayish yellow	None	0.0	0.0	0.2	0.2	0.3	3.2	60.5	35.6	35.6	2.63	silt	< 8.4	99 ± 6.7	99		
				2024/12/18	Sunny	7.1	6.5	9.1	3	Dark grayish yellow	None	0.0	0.0	0.0	0.1	0.2	1.6	43.4	54.7	38.3	2.64	silt	< 9.7	110 ± 7.2	110		

Tochigi Lakes (SE) 1/1

	Location				Sampling Date	Weather	Air temperature (°C)	Surrounding Environment (Soil, Air dose)							Remarks		
	No.	Water Area	Location	Municipality				Color	Odor	Property	Activity concentration [Bq/kg(dry)]			Air dose (μSv/h)			
											Radioactive cesium						
											Cs-134	Cs-137	Total				
Lakes and Reservoirs	57	Nakagawa River System	Miyama Dam Reservoir	Center	Nasushiobara City	2024/5/13	Light Rain	19.0	Brownish black	Faint earth	loamy	< 8.8	250 ± 8.9	250	0.06		
							2024/8/20	Sunny	28.9	Dark brown	Faint earth	loamy	< 9.1	390 ± 15	390	0.06	
	58	Nakagawa River System	Shiobara Dam Reservoir	Center	Nasushiobara City	2024/5/14	Sunny	22.0	Dark brown	Faint earth	loamy	13 ± 3.5	960 ± 19	973	0.08		
							2024/8/19	Cloudy	31.5	Dark brown	Faint earth	loamy	13 ± 2.3	910 ± 18	923	0.08	
	59	Kintugawa River System	Kawaji Dam Reservoir	Center	Nikko City	2024/5/16	Light Rain	17.0	Dull yellow brown	Faint earth	loamy	< 7.0	640 ± 13	640	0.11		
							2024/8/20	Sunny	29.1	Dull yellow brown	Faint earth	loamy	< 9.9	920 ± 18	920	0.12	
	60			Ikari Dam Reservoir		Center		2024/5/16	Light Rain	16.0	Dark brown	Faint earth	loamy	< 9.8	510 ± 15	510	0.10
								2024/8/20	Light Rain	27.8	Dark brown	Faint earth	loamy	< 9.9	600 ± 16	600	0.09
	61			Kawamata Dam Reservoir		Center		2024/5/28	Light Rain	17.0	Brownish black	Faint earth	loamy	< 7.8	36 ± 4.2	36	0.06
								2024/8/21	Sunny	28.6	Grayish yellow brown	Faint earth	loamy	< 8.1	20 ± 2.9	20	0.07
	62			Lake Yunoko		Center		2024/5/28	Light Rain	17.0	Dull yellow brown	Faint earth	loamy	< 4.8	76 ± 5.2	76	0.07
								2024/8/21	Sunny	28.6	Dull yellow brown	Faint earth	loamy	< 7.0	60 ± 5.8	60	0.07
	63	Watarase River System	Lake Chuzenji	Center	Tochigi City	2024/5/15	Sunny	17.0	Brownish black	Faint earth	loamy	< 4.0	41 ± 2.9	41	0.05		
							2024/8/21	Sunny	29.2	Black	Faint earth	loamy	< 5.8	67 ± 5.3	67	0.05	
64	Watarase River System	Watarase Reservoir	Center	Tochigi City	2024/5/24	Sunny	22.0	Dark brown	Faint earth	loamy	< 9.4	420 ± 13	420	0.05			
								2024/9/18	Sunny	33.1	Dark brown	Faint earth	loamy	< 9.9	320 ± 13	320	0.05



Survey Locations (Tochigi Prefecture)