

FY2024 Iwate Prefecture Survey Results

[Outline of results]

(1) Water

Rivers

Radioactive cesium (Cs-134, Cs-137): Less than the detection limits
(hereafter abbreviated as "ND")
at all measurement points

Coastal areas

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

(2) Sediments

Rivers

Cs-134: ND at all measurement points

Cs-137: 2.2 - 42 Bq/kg (dry)

Coastal areas

Cs-134: ND at all measurement points

Cs-137: 1.6 - 16 Bq/kg (dry)

(3) Surrounding Environment*

(a) Soil

Rivers

Cs-134: ND - 15 Bq/kg (dry)

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

(b) Ambient dose rate

Rivers

0.03 - 0.09 μ Sv/h

*Surveys conducted from May to August

Iwate River (Water) 2/2

Rivers	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water							Activity concentration(Bq/L)		Remarks	
	No.	Water Area	Location	Municipality					General items							Radioactive cesium			
									Water temperature (°C)	Sampling depth (m)	Color	Odor	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity (FNU)	Cs-134		Cs-137
16	Sarusawa River	Kannon Bridge	Ichinoseki City	2024/5/14	Sunny	17.4	0.7	15.3	0.0	Greenish yellowish white	None	>100	26.1	1	0.6	< 0.62	< 0.61		
				2024/8/5	Sunny	28.3	0.7	18.3	0.0	Colourless	None	>100	26.4	<1	0.3	< 0.42	< 0.60		
				2024/11/11	Sunny	13.8	0.5	10.9	0.0	Light grayish yellow green	None	>100	30.0	<1	0.3	< 0.84	< 0.47		
				2025/1/14	Cloudy	3.9	0.4	6.5	0.0	Colourless	None	>100	28.0	<1	0.3	< 0.62	< 0.61		
	17	Satetsu River		Oide Bridge	2024/5/14	Sunny	21.0	0.6	14.4	0.0	Light grayish greenish yellow	None	>100	18.5	4	1.9	< 0.51	< 0.58	
					2024/8/5	Sunny	30.1	0.7	18.2	0.0	Colourless	None	>100	18.1	2	0.6	< 0.42	< 0.55	
					2024/11/11	Sunny	19.6	0.4	12.5	0.0	Light grayish yellow	None	>100	16.2	<1	0.5	< 0.61	< 0.66	
					2025/1/14	Cloudy	5.1	0.4	7.3	0.0	Light grayish yellow	None	>100	17.2	3	0.5	< 0.53	< 0.65	
	18	Satetsu River		Kanzaki Bridge	2024/5/30	Cloudy	20.3	0.8	16.8	0.0	Light grayish greenish yellow	None	>100	16.4	4	1.7	< 0.67	< 0.61	
					2024/8/22	Cloudy	28.2	0.8	21.4	0.0	Light grayish yellow	None	>100	17.3	3	0.8	< 0.59	< 0.58	
					2024/11/6	Light Rain	8.3	0.5	11.6	0.0	Light grayish yellow green	None	>100	17.5	1	0.5	< 0.58	< 0.66	
					2025/1/14	Sunny	3.3	0.7	5.9	0.0	Light grayish greenish yellow	None	>100	18.1	2	1.1	< 0.64	< 0.51	
	19	Senmaya River Upper Reaches		Miyata Bridge	2024/5/14	Sunny	18.9	0.4	17.1	0.0	Light grayish reddish yellow	None	37	15.1	13	7.6	< 0.50	< 0.58	
					2024/8/5	Cloudy	30.2	0.3	24.2	0.0	Light grayish reddish yellow	None	>100	16.4	4	1.2	< 0.64	< 0.58	
					2024/11/11	Sunny	18.3	0.4	12.3	0.0	Light grayish reddish yellow	None	>100	19.4	<1	0.7	< 0.69	< 0.63	
					2025/1/14	Cloudy	6.2	0.1	4.5	0.0	Light grayish yellow	None	>100	16.0	1	0.7	< 0.64	< 0.54	
	20	Kitakami River		Kitakamigawa Bridge	2024/5/30	Cloudy	23.8	0.3	17.0	0.0	Light grayish yellow	None	63	11.1	12	6.2	< 0.67	< 0.51	
					2024/8/22	Cloudy	28.7	0.3	25.0	0.0	Light grayish greenish yellow	None	>100	12.5	4	1.7	< 0.59	< 0.55	
					2024/11/11	Sunny	18.9	0.2	12.4	0.0	Light grayish reddish yellow	None	>100	15.3	2	1.5	< 0.53	< 0.47	
					2025/1/14	Light Rain	4.0	0.1	4.1	0.0	Colourless	None	>100	16.4	1	0.9	< 0.66	< 0.61	
	21	Kinomi River		Higuchi Bridge	2024/5/30	Cloudy	23.3	0.3	17.6	0.0	Light grayish yellow	None	>100	18.4	4	2.1	< 0.56	< 0.43	
2024/8/6			Cloudy		29.6	0.3	26.4	0.0	Light grayish greenish yellow	None	>100	21.6	4	1.4	< 0.63	< 0.42			
2024/11/12			Cloudy		15.4	0.1	11.9	0.0	Light grayish greenish yellow	None	>100	22.8	<1	0.9	< 0.61	< 0.61			
2025/1/8			Sunny		4.3	0.3	5.2	0.0	Light grayish yellow green	None	>100	20.1	1	1.3	< 0.69	< 0.58			
22	Kinryu River	Tenjin Bridge	2024/5/17	Light Rain	13.8	0.4	16.5	0.0	Grayish yellow	None	20	17.9	31	15	< 0.70	< 0.54			
			2024/8/20	Sunny	30.5	0.6	30.7	0.0	Light grayish yellow green	None	75	16.7	6	6.2	< 0.58	< 0.54			
			2024/11/12	Sunny	15.7	0.4	11.3	0.0	Grayish yellow	None	>100	28.5	<1	1.6	< 0.64	< 0.40			
			2025/1/8	Sunny	4.5	0.3	3.7	0.0	Light grayish greenish yellow	None	68	20.7	7	5.8	< 0.59	< 0.54			

Iwate River (Sediment) 1/2

No.	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment																	Activity concentration [Bq/kg(dry)]			Remarks
	Water Area	Location	Municipality					Sediment temperature (°C)	Sample length (cm)	Color	Odor	Grain size distribution(%)									Sediment content (%)	Density (Mg/m ³)	Property	Radioactive cesium				
												Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt	clay	Cs-134				Cs-137	Total			
Rivers	Sakari River Lower Reaches	Sano Bridge	Ofunato City	2024/5/16	Cloudy	20.9	0.5	15.9	3	Olive black	Faint seaweed	0.0	0.1	18.4	24.6	38.7	7.3	4.4	6.5	74.9	2.65	sand/silt	< 3.6	16 ± 1.9	16			
				2024/1/19	Sunny	4.6	0.6	10.3	5	Olive black	Faint swamp	0.0	1.2	17.9	26.2	42.5	9.9	1.5	0.8	81.5	2.70	sand/gravel	< 3.9	13 ± 1.9	13			
				2024/5/16	Cloudy	19.0	0.5	16.7	3	Brownish black	Faint seaweed	0.0	0.1	6.0	15.5	35.1	34.7	3.7	4.9	78.6	2.76	sand	< 3.0	7.5 ± 1.2	7.5			
	Kesen River	Aneha Bridge	Rikuzentakada City	2024/1/19	Sunny	6.4	0.5	10.9	5	Gray	None	0.0	0.3	3.3	5.7	47.5	40.8	1.2	1.2	78.7	2.74	sand	< 3.2	5.5 ± 1.4	5.5			
				2024/5/17	Cloudy	16.4	0.3	14.5	3	Dull yellow brown	None	0.0	0.0	19.6	46.6	30.1	1.4	0.1	2.2	85.3	2.73	sand/gravel	< 6.4	29 ± 3.5	29			
				2024/8/23	Cloudy	28.8	0.4	21.3	3	Dull yellow brown	None	0.0	4.9	42.4	22.0	25.2	3.4	0.5	1.6	86.5	2.74	sand	< 7.1	22 ± 3.5	22			
	Okawa River	Prefectural border with Miyagi	Ichinoseki City	2024/1/19	Sunny	5.0	0.5	8.7	5	Dark brown	None	0.0	1.9	23.2	39.2	31.1	3.8	0.4	0.4	77.5	2.73	sand/gravel	< 5.8	32 ± 3.5	32			
				2025/1/7	Sunny	7.8	0.3	6.8	3	Dark brown	None	0.0	0.7	27.3	43.8	24.3	3.3	0.2	0.4	78.4	2.72	sand/gravel	< 5.6	33 ± 3.3	33			
				2024/5/17	Cloudy	15.7	0.2	14.2	3	Brownish black	None	0.0	1.0	29.4	33.4	31.5	1.8	0.6	2.3	80.2	2.79	gravel/sand	< 4.2	28 ± 2.7	28			
	Tsuayagawa River	Chiyogahara Bridge	Kanegasaki Town	2024/1/19	Cloudy	5.2	0.2	8.6	5	Olive black	None	0.0	10.1	35.0	39.1	15.3	0.3	0.1	0.1	77.5	2.77	gravel/sand	< 6.0	24 ± 3.0	24			
				2024/5/16	Cloudy	16.9	0.3	16.7	3	Brownish black	None	0.0	4.0	42.8	25.6	24.4	1.3	0.1	1.8	83.3	2.75	sand/gravel	< 4.4	12 ± 1.9	12			
				2024/1/15	Sunny	15.0	0.2	12.7	5	Olive brown	Faint swamp	0.0	0.1	4.1	19.0	59.1	13.9	2.5	1.3	75.4	2.72	sand/gravel	< 5.8	14 ± 3.0	14			
	Kurosawa River	Kawarada Bridge	Kanegasaki Town	2024/5/16	Cloudy	16.7	0.5	13.0	3	Brownish black	None	0.0	1.0	29.5	33.6	30.1	3.0	0.9	1.9	80.6	2.69	sand/gravel	< 1.6	2.2 ± 0.57	2.2			
				2024/8/21	Cloudy	30.1	0.7	22.8	3	Dark grayish yellow	None	0.0	0.9	14.2	39.5	41.6	1.5	0.0	2.3	83.0	2.69	sand/gravel	< 2.0	2.4 ± 0.79	2.4			
				2024/1/15	Sunny	16.3	0.6	13.3	5	Gray	None	0.0	0.8	24.4	46.0	26.9	1.4	0.3	0.2	78.8	2.69	gravel/sand	< 1.5	4.2 ± 0.44	4.2			
	Isawa River	Oago Bridge	Oahu City	2025/1/15	Light Snow	1.4	0.8	3.0	5	Brownish black	Faint swamp	0.0	0.9	31.2	55.7	11.5	0.5	0.1	0.1	77.7	2.68	sand/gravel	< 1.9	3.0 ± 0.72	3.0			
				2024/5/16	Cloudy	19.0	0.6	17.3	3	Brownish black	None	0.0	0.7	30.5	41.6	24.0	1.3	0.0	1.9	82.2	2.71	sand/gravel	< 1.7	5.0 ± 0.61	5.0			
				2024/8/21	Cloudy	30.0	0.3	25.0	3	Dark brown	None	0.0	2.4	33.0	24.8	29.3	6.2	3.2	1.1	82.4	2.75	sand	< 1.5	3.7 ± 0.57	3.7			
Saijin Bridge	Saijin Bridge	Oahu City	2024/1/15	Cloudy	13.6	0.7	13.8	5	Olive brown	None	0.0	1.1	26.5	39.7	31.8	0.6	0.2	0.1	80.7	2.79	sand/gravel	< 2.1	4.5 ± 0.91	4.5				
			2025/1/15	Light Snow	0.5	1.0	3.1	5	Grayish yellow brown	Faint swamp	0.0	1.9	39.5	40.4	17.1	0.6	0.3	0.2	80.6	2.75	sand/gravel	< 2.3	5.6 ± 0.94	5.6				
			2024/5/16	Cloudy	17.7	0.6	17.9	3	Brownish black	Faint swamp	0.0	3.2	49.8	22.4	20.8	1.9	0.6	1.3	84.2	2.74	gravel/sand	< 3.5	5.5 ± 1.3	5.5				
Kitakami River	Fuji Bridge	Oahu City	2024/8/21	Cloudy	30.2	0.4	25.6	3	Dark brown	None	0.0	0.1	40.8	41.1	15.5	0.9	0.4	1.2	83.4	2.77	sand/gravel	< 3.0	1.5 ± 1.8	1.5				
			2024/1/15	Cloudy	12.4	0.5	13.6	5	Dark olive brown	None	0.0	3.9	29.5	25.2	39.0	1.9	0.4	0.1	82.7	2.71	sand/gravel	< 2.1	3.4 ± 0.80	3.4				
			2025/1/15	Cloudy	1.2	0.5	4.2	5	Dark grayish yellow	Faint swamp	0.0	3.7	37.4	39.1	19.2	0.3	0.2	0.1	80.3	2.69	sand/gravel	< 2.8	3.2 ± 1.0	3.2				
Shiratori River	Shiratori Bridge	Hiratzumi Town	2024/5/15	Cloudy	19.9	0.3	18.0	3	Dark brown	Faint swamp	0.0	1.1	27.4	31.2	37.6	1.6	0.1	1.0	83.3	2.74	sand/gravel	< 4.9	1.6 ± 2.6	1.6				
			2024/8/20	Sunny	31.7	0.2	24.7	3	Dark brown	Faint swamp	0.0	1.7	24.0	28.6	39.0	2.8	2.0	1.9	81.4	2.75	sand/gravel	< 4.4	2.0 ± 2.3	2.0				
			2024/1/15	Cloudy	10.1	0.1	12.9	5	Dark brown	None	0.0	0.9	20.4	39.9	45.3	1.7	0.6	0.2	82.7	2.74	sand/gravel	< 4.8	14 ± 2.1	14				
Koromo River	Koromogawa Bridge	Hiratzumi Town	2025/1/15	Light Snow	3.9	0.3	4.1	5	Dark brown	Faint swamp	0.0	1.3	17.5	36.6	41.4	2.2	0.7	0.3	80.6	2.75	sand/gravel	< 3.9	13 ± 2.1	13				
			2024/5/15	Cloudy	22.0	0.5	17.4	3	Dark brown	None	0.0	0.4	22.2	39.0	26.9	8.2	2.2	1.1	77.9	2.67	sand/gravel	< 5.4	12 ± 3.0	12				
			2024/8/20	Sunny	30.1	0.3	25.0	3	Dark brown	None	0.0	0.0	17.1	60.0	19.4	1.1	0.8	1.6	76.4	2.62	sand/gravel	< 4.8	2.6 ± 3.0	2.6				
Ota River	Hitosuji Bridge	Hiratzumi Town	2024/1/16	Sunny	9.8	0.3	11.4	5	Brown	None	0.0	0.7	25.0	56.8	15.9	1.0	0.5	0.1	75.3	2.65	sand/gravel	< 5.6	31 ± 3.4	31				
			2025/1/15	Cloudy	2.6	0.3	3.9	5	Dark brown	Faint swamp	0.0	0.8	16.7	55.8	22.7	3.0	0.8	0.2	73.9	2.65	sand/gravel	< 5.8	2.9 ± 2.9	2.9				
			2024/5/15	Sunny	19.0	0.2	15.2	3	Brownish black	None	0.0	0.0	14.2	45.4	36.1	3.0	0.1	1.2	80.9	2.69	sand/gravel	< 5.4	2.9 ± 3.2	2.9				
Iwai River Middle Reaches	Kamino Bridge	Hiratzumi Town	2024/8/20	Sunny	31.5	0.2	26.6	3	Dark brown	Faint swamp	0.0	0.1	12.6	41.1	41.7	2.1	0.8	1.6	80.3	2.70	sand	< 4.4	2.6 ± 2.5	2.6				
			2024/1/16	Sunny	11.6	0.1	11.2	5	Dark brown	None	0.0	0.1	13.3	43.2	39.4	2.7	0.8	0.5	76.3	2.67	sand/gravel	< 5.0	3.5 ± 3.3	3.5				
			2025/1/16	Sunny	-0.5	0.1	1.3	3	Dark brown	Faint algae	0.0	0.6	15.3	48.6	33.8	1.4	0.2	0.1	52.2	2.70	sand/gravel	< 5.0	3.0 ± 3.0	3.0				
Iwai River Lower Reaches	Kozenji Bridge	Hiratzumi Town	2024/5/15	Sunny	19.5	0.6	18.1	3	Brownish black	None	0.0	0.5	34.6	42.7	20.2	1.0	0.5	0.5	82.0	2.69	sand/gravel	< 5.2	1.5 ± 2.3	1.5				
			2024/8/22	Cloudy	28.5	0.2	26.3	3	Dark brown	None	0.0	1.7	8.6	34.8	50.6	1.3	1.0	2.0	79.8	2.66	sand/gravel	< 4.9	2.1 ± 2.7	2.1				
			2024/1/16	Cloudy	8.5	0.3	10.9	5	Dull yellow brown	None	0.0	0.3	3.8	37.3	55.6	1.8	0.7	0.5	72.0	2.65	sand/gravel	< 5.6	2.4 ± 3.1	2.4				
Kitakami River	Chitose Bridge (Kozenji)	Ichinoseki City	2025/1/16	Cloudy	1.9	0.5	3.1	5	Olive brown	None	0.0	0.1	2.4	47.5	49.3	0.2	0.4	0.1	81.0	2.69	sand	< 3.0	1.6 ± 1.5	1.6				
			2024/5/27	Cloudy	22.2	0.2	20.7	5	Grayish yellow brown	Faint swamp	0.0	3.8	26.5	17.4	12.5	30.1	6.8	2.9	81.2	2.60	sand/gravel	< 3.9	1.9 ± 2.3	1.9				
			2024/8/6	Cloudy	28.6	0.3	24.7	3	Dark brown	None	0.0	5.1	46.7	27.6	11.7	6.3	1.7	0.9	83.6	2.67	sand/gravel	< 5.4	12 ± 2.3	12				
Sokei River	Unada Bridge	Ichinoseki City	2024/1/16	Cloudy	8.6	0.1	10.8	5	Brown	None	0.0	0.9	31.0	35.3	22.7	8.5	1.0	0.6	81.8	2.72	gravel/sand	< 4.6	2.1 ± 2.5	2.1				
			2025/1/16	Cloudy	1.4	0.1	3.2	3	Dull yellow brown	Faint swamp	0.0	7.7	61.7	19.4	6.6	3.9	0.5	0.2	61.5	2.69	gravel/sand	< 6.1	2.0 ± 2.7	2.0				
			2024/5/27	Cloudy	24.8	0.5	18.9	5	Dull yellow brown	Faint swamp	0.0	0.6	7.2	2.1	25.7	56.5	5.8	2.1	71.0	2.70	sand	< 3.9	8.8 ± 1.7	8.8				
Sarusawa River	Kannon Bridge	Ichinoseki City	2024/8/6	Cloudy	31.0	0.7	24.9	3	Brownish black	None	0.0	2.3	1.1	1.4	49.8	38.9	4.3	2.2	74.7	2.72	sand	< 4.5	8.7 ± 1.7	8.7				
			2024/1/16	Light Rain	8.9	0.5	11.8	5	Dull yellow brown	None	0.0	2.2	5.6	9.7	40.5	42.1	3.9	2.0	74.3	2.72	sand	< 4.4	9.2 ± 2.3	9.2				
			2025/1/16	Sunny	1.9	0.8	3.1	5	Brown	Faint swamp	0.0	4.0	30.5	13.0	36.6	12.7	1.5	1.7	82.4	2.79	sand/gravel	< 0.72	3.0 ± 0.28	3.0				
Satetsu River	Oide Bridge	Ichinoseki City	2024/5/14	Sunny	21.5	0.7	15.8	3	Dark brown	None	0.0	0.0	2.6	25.9	65.4	3.5	1.7	0.9	84.1	2.66	sand	< 5.4	2.0 ± 2.6	2.0				
			2024/8/5	Sunny	30.3	0.3	24.2	3	Olive brown	None	0.0	1.1	31.4	47.2	16.9	1.6	0.6	1.2	83.9	2.68	sand/gravel	< 4.5	1.1 ± 2.1	1.1				
			2024/1/11	Sunny	17.1	0.3	13.0	5	Olive brown	None	0.0	0.3	15.3	28.7	43.0	11.3	0.8	0.6	79.7	2.70	sand/gravel	< 4.2	1.8 ± 2.3	1.				

Iwate River(Sediment) 2/2

Rivers	Location				Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment															Activity concentration [Bq/kg(dry)]			Remarks		
	No.	Water Area	Location	Municipality					Sediment temperature (°C)	Sample length (cm)	Color	Odor	General items										Sediment content (%)	Density (Mg/m ³)	Property	Radioactive cesium			
													Grain size distribution(%)													Radioactive cesium			
													Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt	clay	Cs-134	Cs-137				Total			
19	Senmaya River Upper Reaches	Miyata Bridge		2024/5/14	Sunny	18.9	0.4	15.1	3	Dark brown	None	0.0	0.0	11.2	54.1	32.4	1.1	0.0	1.2	88.8	2.70	sand	< 4.3	20 ± 2.6	20				
				2024/8/5	Cloudy	30.2	0.3	24.2	3	Dark brown	None	0.0	0.4	34.0	40.5	21.4	1.7	1.0	1.0	80.8	2.68	sand/gravel	< 4.4	18 ± 2.3	18				
				2024/11/11	Sunny	18.3	0.4	12.0	5	Dull yellow brown	None	0.0	0.3	13.5	58.7	24.7	0.3	1.5	1.0	76.1	2.69	sand/gravel	< 4.9	23 ± 2.6	23				
				2025/1/14	Cloudy	6.2	0.1	4.5	5	Dull yellow brown	Faint swamp	0.0	0.3	16.1	48.9	34.0	0.5	0.1	0.1	77.1	2.70	sand/gravel	< 4.7	22 ± 2.5	22				
				2024/5/30	Cloudy	23.8	0.3	17.2	5	Grayish yellow brown	Faint sewage	0.0	0.2	3.1	1.6	34.2	44.1	12.3	4.5	68.5	2.74	sand	< 4.1	19 ± 1.9	19				
	20	Kitakami River	Kitakamigawa Bridge	Ichinoseki City	2024/8/22	Cloudy	28.7	0.3	25.0	3	Brownish black	None	0.0	4.9	41.8	19.7	29.8	2.4	0.5	0.9	86.6	2.71	sand/gravel	< 2.8	5.2 ± 1.1	5.2			
					2024/11/11	Sunny	18.9	0.2	13.3	5	Dark olive brown	Faint phytoplankton	0.0	3.9	53.0	23.2	18.0	1.6	0.2	0.1	84.9	2.68	gravel/sand	< 0.64	4.6 ± 0.26	4.6			
					2025/1/14	Light Rain	4.0	0.1	4.1	5	Dull yellow brown	None	3.9	2.8	25.5	17.6	46.9	2.6	0.5	0.2	80.9	2.71	sand/gravel	< 3.4	5.3 ± 1.1	5.3			
					2024/5/30	Cloudy	23.3	0.3	18.8	5	Grayish yellow brown	None	0.0	0.5	2.0	32.9	61.8	1.4	0.5	0.9	76.2	2.69	sand	< 4.8	5.5 ± 1.7	5.5			
					2024/8/6	Cloudy	29.6	0.3	26.4	3	Dark grayish yellow	None	0.0	0.1	1.6	18.4	72.2	2.6	3.3	1.8	77.0	2.70	sand	< 1.2	5.0 ± 0.57	5.0			
	21	Kinomi River	Higuchi Bridge	Ichinoseki City	2024/11/12	Cloudy	15.4	0.1	11.9	5	Olive brown	None	0.0	0.2	7.4	56.1	35.7	0.2	0.2	0.2	76.9	2.70	sand/gravel	< 2.1	5.6 ± 0.83	5.6			
					2025/1/8	Sunny	4.3	0.3	5.2	5	Dark olive	None	0.0	0.1	1.7	30.8	61.3	4.1	1.2	0.8	77.6	2.70	sand	< 2.1	6.6 ± 0.91	6.6			
					2024/5/17	Light Rain	13.8	0.4	16.6	3	Brownish black	None	0.0	0.2	16.9	25.1	46.7	8.4	1.5	1.2	81.1	2.73	sand/gravel	< 3.6	31 ± 2.7	31			
					2024/8/20	Sunny	30.5	0.6	31.0	5	Gray	None	0.0	0.4	5.7	20.1	58.7	10.1	3.4	1.6	78.7	2.68	sand	< 4.2	30 ± 2.7	30			
					2024/1/12	Sunny	15.7	0.4	11.5	5	Gray	Faint swamp	0.0	0.8	6.3	17.1	61.0	13.0	1.0	0.8	77.3	2.70	sand	< 5.3	42 ± 3.5	42			
22	Kinryu River	Tenjin Bridge	Ichinoseki City	2025/1/8	Sunny	4.5	0.3	4.3	5	Grayish olive	None	0.0	0.4	11.2	21.6	56.1	9.2	0.9	0.6	79.4	2.70	sand/gravel	< 5.1	30 ± 3.0	30				

Iwate River (SE) 1/1

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)]			Air dose (μSv/h)		
										Radioactive cesium								Radioactive cesium					
Cs-134	Cs-137	Total	Cs-134	Cs-137	Total																		
Rivers Kinuami River System	1	Sakari River Lower Reach	Sano Bridge	Ofunato City	2024/5/16	Cloudy	20.9	Brownish black	Faint earth	loamy	< 4.1	53 ± 3.1	53	0.06	Dark brown	Faint earth	Loamy	< 4.8	31 ± 2.8	31	0.06		
	2	Kesen River	Aneha Bridge	Rikuzentakada City	2024/5/16	Cloudy	19.0	Dull yellow brown	Faint earth	loamy	< 4.6	5.5 ± 1.8	5.5	0.04	Dull yellow brown	Faint earth	Loamy	< 4.7	8.8 ± 1.9	8.8	0.04		
	3	Okawa River	Prefectural border with	Ichinoseki City	2024/5/17	Cloudy	16.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					2024/8/23	Cloudy	28.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4	Tsuyagawa River	Chiyogahara Bridge			2024/5/17	Cloudy	15.7	Dark brown	Faint earth	loamy	< 7.6	100 ± 4.8	100	0.07	Dark brown	Faint earth	Loamy	< 4.5	100 ± 4.2	100	0.07	(Left bank)Difficult to collect soils due to topography, etc.*
	5	Kurosawa River	Kawarada Bridge	Kanegasaki Town	2024/5/16	Cloudy	16.9	Brownish black	Faint earth	loamy	< 6.9	120 ± 5.8	120	0.04	Dark brown	Faint earth	Loamy	< 5.4	340 ± 9.3	347.7	0.07		
					2024/5/16	Cloudy	16.7	Dark brown	Faint earth	loamy	< 3.9	61 ± 3.5	61	0.04	Dark brown	Faint earth	Loamy	< 4.1	75 ± 3.5	75	0.04		
	6	Isawa River	Oago Bridge	Oshu City	2024/8/21	Cloudy	30.1	Dark brown	Faint earth	loamy	< 3.7	100 ± 4.8	100	0.05	Dark brown	Faint earth	Loamy	< 5.7	100 ± 4.9	100	0.05		
					2024/5/16	Cloudy	19.0	Brownish black	Faint earth	loamy	< 6.6	280 ± 8.7	280	0.05	Brownish black	Faint earth	Loamy	< 6.6 ± 1.6	330 ± 8.1	336.6	0.04		
	7		Saijin Bridge		2024/8/21	Cloudy	30.0	Brown	Faint earth	loamy	< 5.9	260 ± 8.2	260	0.05	Olive brown	None	Sandy	< 4.3	260 ± 6.5	260	0.05		
					2024/5/16	Cloudy	17.7	Brownish black	Faint earth	loamy	< 6.0 ± 1.6	180 ± 6.5	186.0	0.05	Dull yellow brown	Faint earth	Loamy	< 6.2 ± 1.9	310 ± 8.1	316.2	0.04		
	8	Kitakami River	Fuji Bridge		2024/8/21	Cloudy	30.2	Brownish black	Faint earth	loamy	< 5.4	230 ± 7.3	230	0.04	Dull yellow brown	Faint earth	Loamy	< 5.7	270 ± 7.6	270	0.05		
					2024/5/15	Cloudy	19.9	Dark brown	Faint earth	loamy	< 8.7 ± 1.5	540 ± 8.6	548.7	0.07	Brownish black	Faint earth	Loamy	< 11 ± 2.3	720 ± 12	731	0.06		
	9	Shiratori River	Shiratori Bridge		2024/8/20	Sunny	31.7	Grayish brown	Faint earth	loamy	< 6.8 ± 1.4	470 ± 8.1	476.8	0.07	Brownish black	Faint earth	Loamy	< 6.8 ± 1.6	290 ± 8.0	296.8	0.07		
					2024/5/15	Cloudy	22.0	Dark brown	Faint earth	loamy	< 13 ± 2.4	660 ± 12	673	0.06	Brownish black	Faint earth	Loamy	< 5.0	290 ± 7.5	290	0.07		
	10	Koromo River	Koromogawa Bridge	Hirazumi Town	2024/8/20	Sunny	30.1	Brownish black	Faint earth	loamy	< 5.9	430 ± 9.3	430	0.06	Brownish black	Faint earth	Loamy	< 5.8	340 ± 8.4	340	0.06		
					2024/5/15	Sunny	19.0	Brownish black	Faint earth	loamy	< 7.2 ± 1.9	470 ± 9.6	477.2	0.08	Brownish black	Faint earth	Clay-loamy	< 8.4 ± 1.8	580 ± 9.6	588.4	0.07		
	11	Ota River	Hitosuji Bridge		2024/8/20	Sunny	31.5	Brownish black	Faint earth	loamy	< 6.8 ± 2.1	460 ± 10	466.8	0.06	Brownish black	Faint earth	Loamy	< 13 ± 2.0	600 ± 9.5	613	0.06		
					2024/5/15	Sunny	19.5	Brownish black	Faint earth	loamy	< 7.9 ± 1.7	530 ± 9.4	537.9	0.07	Dark brown	Faint earth	Loamy	< 11 ± 2.1	440 ± 9.9	451	0.07		
	12	Iwai River Middle Reach	Kamino Bridge		2024/8/22	Cloudy	28.5	Brownish black	Faint earth	loamy	< 9.2 ± 2.1	750 ± 12	759.2	0.08	Brownish black	Faint earth	Loamy	< 4.9	310 ± 7.9	310	0.05		
					2024/5/27	Cloudy	22.2	Dull yellow orange	Faint earth	loamy	< 5.3	< 6.3	-	0.05	Dark brown	Faint earth	Loamy	< 5.7	160 ± 6.0	160	0.06		
	13	Iwai River Lower Reach	Kozenji Bridge		2024/8/6	Cloudy	28.6	Dull yellow brown	Faint earth	loamy	< 3.7	< 5.5	-	0.04	Dark brown	Faint earth	Loamy	< 5.4	170 ± 5.8	170	0.05		
2024/5/27					Cloudy	24.8	Dull yellow brown	Faint earth	loamy	< 7.1	170 ± 7.2	170	0.05	Dull yellow brown	Faint earth	Loamy	< 6.2	170 ± 6.8	170	0.05			
14	Kitakami River	Chitose Bridge (Kozenji)		2024/8/6	Cloudy	31.0	Dark brown	Faint earth	loamy	< 6.2	190 ± 7.0	190	0.04	Dark brown	Faint earth	Loamy	< 6.0	140 ± 6.2	140	0.04			
				2024/5/14	Sunny	21.5	Dark brown	Faint earth	loamy	< 5.3	190 ± 6.9	190	0.06	Dark brown	Faint earth	Loamy	< 6.2	250 ± 8.4	250	0.07			
15	Sokei River	Unada Bridge		2024/8/5	Sunny	30.3	Brownish black	Faint earth	loamy	< 5.7 ± 1.9	340 ± 9.2	345.7	0.06	Brownish black	Faint earth	Loamy	< 5.7	300 ± 9.2	300	0.06			
				2024/5/14	Sunny	17.4	Black	Faint earth	loamy	< 15 ± 2.8	1,100 ± 17	1,115	0.07	Brownish black	Faint earth	Loamy	< 11 ± 2.2	530 ± 11	541	0.06			
16	Sarusawa River	Kannon Bridge		2024/8/5	Sunny	28.3	Brownish black	Faint earth	loamy	< 7.2	920 ± 15	920	0.06	Brownish black	Faint earth	Loamy	< 10 ± 2.5	610 ± 12	620	0.08			
				2024/5/14	Sunny	21.0	Dark brown	Faint earth	loamy	< 6.6	260 ± 8.5	260	0.05	Brownish black	Faint earth	Loamy	< 8.7	470 ± 12	470	0.05			
17	Satetsu River	Oide Bridge	Ichinoseki City	2024/8/5	Sunny	30.1	Dark brown	Faint earth	loamy	< 9.7	350 ± 9.6	350	0.04	Dark brown	Faint earth	Loamy	< 6.8	400 ± 10	400	0.05			
				2024/5/30	Cloudy	20.3	Brown	Faint earth	loamy	< 9.4 ± 2.4	640 ± 12	649.4	0.08	Dark brown	Faint earth	Loamy	< 7.9	600 ± 13	600	0.08			
18	Senmaya River Upper	Miyata Bridge		2024/8/22	Cloudy	28.2	Brown	Faint earth	loamy	< 9.0 ± 2.3	760 ± 13	769.0	0.09	Dark brown	Faint earth	Loamy	< 9.4 ± 2.0	680 ± 11	689.4	0.07			
				2024/5/14	Sunny	18.9	Dark brown	Faint earth	loamy	< 6.3	470 ± 10	470	0.08	Dark brown	Faint earth	Loamy	< 12 ± 2.3	540 ± 12	552	0.08			
19	Kitakami River	Kitakami-ohashi Bridge		2024/8/5	Cloudy	30.2	Dark brown	Faint earth	loamy	< 9.2 ± 2.2	490 ± 11	499.2	0.07	Dark brown	Faint earth	Loamy	< 8.0 ± 2.4	520 ± 12	528.0	0.08			
				2024/5/30	Cloudy	23.8	Dark brown	Faint earth	loamy	< 5.9	180 ± 6.9	180	0.05	Grayish yellow brown	Faint earth	Loamy	< 14 ± 2.3	480 ± 10	494	0.07			
20	Kinomi River	Higuchi Bridge		2024/8/22	Cloudy	28.7	Dark brown	Faint earth	loamy	< 6.2	490 ± 11	490	0.06	Dark brown	Faint earth	Loamy	< 6.7 ± 1.4	230 ± 6.2	236.7	0.07			
				2024/5/30	Cloudy	23.3	Brown	Faint earth	loamy	< 5.6	180 ± 6.3	180	0.04	Brownish black	Faint earth	Loamy	< 4.5	63 ± 4.5	63	0.04			
21	Kinryu River	Tenjin Bridge		2024/8/6	Cloudy	29.6	Dull yellow brown	Faint earth	loamy	< 5.5	170 ± 6.4	170	0.04	Grayish yellow brown	Faint earth	Loamy	< 5.0	88 ± 5.1	88	0.05			
				2024/5/17	Light Rain	13.8	Brownish black	Faint earth	loamy	< 12 ± 2.1	600 ± 11	612	0.08	Dark brown	Faint earth	Loamy	< 8.7 ± 1.7	550 ± 9.9	558.7	0.07			
22				2024/8/20	Sunny	30.5	Dull yellow brown	Faint earth	loamy	< 5.5	390 ± 9.6	390	0.08	Dull yellow brown	Faint earth	Loamy	< 10 ± 1.8	520 ± 10	530	0.07			

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

Iwate Coastal(Water) 1/1

	Location			Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Water											Remarks
								General items							Activity concentration(Bq/L)				
	No.	Water Area	Surface layer/ Deep layer					Water temperature (°C)	Sampling depth (m)	Color	Odor	Secchi disk depth (m)	Salinity (%)	SS (mg/L)	Turbidity (FNU)	Radioactive cesium			
											Cs-134	Cs-137							
Coastal areas	23	Ofunato Bay (A)	S-31	Surface layer	2024/5/22	Sunny	22.0	15.5	15.1	0.5	Dark grayish yellowish green	None	5.0	33.4	<1	1.4	< 0.53	< 0.58	
				Deep layer					13.4	14.5	-	None		34.3	5	1.9	< 0.55	< 0.48	
		Surface layer	2024/11/19	Sunny	4.6	16.4	16.6	0.5	Dark grayish green	None	9.5	33.1	1	0.6	< 0.59	< 0.61			
		Deep layer					17.6	15.4	-	None		33.7	4	2.2	< 0.61	< 0.58			
	24	Hirota Bay	S-34	Surface layer	2024/5/21	Sunny	20.0	10.4	16.0	0.5	Dark grayish blue green	None	3.0	32.7	2	1.4	< 0.74	< 0.49	
				Deep layer					13.4	9.4	-	None		34.3	4	1.5	< 0.63	< 0.34	
			Surface layer	2024/11/19	Cloudy	9.5	11.0	17.4	0.5	Dark grayish bluish green	None	>11.0	33.3	1	0.6	< 0.62	< 0.61		
			Deep layer					17.5	10.0	-	None		33.9	2	0.7	< 0.41	< 0.51		

Iwate Coastal (Sediment) 1/1

	Location		Sampling Date	Weather	Air temperature (°C)	Water depth (m)	Sediment																				Remarks
							No.	Water Area	Sediment temperature (°C)	General items													Activity concentration [Bq/kg(dry)]				
	Sample length (cm)	Color								Odor	Grain size distribution(%)							Sediment content (%)	Density (Mg/m ³)	Property	Radioactive cesium						
											Coarse gravel	Medium gravel	Fine gravel	Coarse sand	Medium sand	Fine sand	silt				clay	Cs-134	Cs-137	Total			
Coastal areas	23	Ofunato Bay (A)	S-31	2024/5/22	Sunny	22.0	15.5	14.2	10	Olive black	None	0.0	0.2	0.7	2.9	18.4	18.9	42.6	16.3	48.2	2.66	silt/sand	< 5.7	16 ± 2.4	16		
				2024/11/19	Sunny	4.6	16.4	17.6	10	Olive black	None	0.0	0.0	0.0	2.3	14.6	28.1	27.2	27.8	50.7	2.64	silt/sand	< 5.6	14 ± 2.0	14		
	24	Hirota Bay	S-34	2024/5/21	Sunny	20.0	10.4	13.2	5	Olive black	None	0.0	0.0	0.0	0.2	66.9	28.9	1.3	2.7	76.7	2.75	sand	< 1.2	1.6 ± 0.38	1.6		
				2024/11/19	Cloudy	9.5	11.0	17.1	7	Olive black	Faint hydrogen sulfide	0.0	0.0	0.0	1.2	45.9	45.7	4.9	2.3	74.4	2.76	sand/silt	< 1.9	5.0 ± 0.70	5.0		



Survey Locations (Iwate Prefecture)