

OResults of Radioactive Material Monitoring of Aquatic Organisms (Locations A and B along the Abukuma River)

<Locations A and B along the Abukuma River: Samples collected>

Locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
A-1	○	○	○	○	○	○
A-2	○	○	○	-	○	-
B-2	○	○	○	-	○	-
B-3	○	○	○	-	○	-

<Locations A and B along the Abukuma River: Site measurement item>

Locations	Latitude and longitude of the location		Survey date and time			Water	Sediment				Other								
	Latitude	Longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Transparency (cm)							
A-1(Surface layer)	37.6210°	140.5218°	2021/6/24	11:15	11:30	22.0	21.1	Silt	5Y3/2	None	7.00	25 (0.5m)*							
A-1(Bottom layer)				11:20															
A-2	37.5673°	140.3946°		13:30	13:40								19.6	19.9	Sand with gravel	10YR4/4	None	0.35	>50
B-2	37.8121°	140.5058°		16:40	16:50								21.8	21.3	Sand	10YR3/4	None	0.60	45
B-3	37.8182°	140.4679°		15:30	15:40								18.9	19.0	Sand	10YR3/4	None	0.45	>50

* The number in parentheses indicates Secchi disk depth.

<Locations A and B along the Abukuma River: General survey items/Analysis of radioactive materials Water>

Locations	Latitude and longitude of the location		Survey date and time		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electric conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
	Latitude	Longitude	Date	Time (water)												
A-1(Surface layer)	37.6210°	140.5218°	2021/6/24	11:15	7.3	2.8	7.2	8.3	18.3	0.09	2.8	37	17.6	N.D.(0.0016)	0.048	0.0012
A-1(Bottom layer)				11:20	7.3	2.8	7.7	8.6	18.7	0.09	2.8	44	19.8	0.0022	0.066	-
A-2	37.5673°	140.3946°		13:30	7.4	1.5	5.7	9.6	12.1	0.06	2.0	13	6.7	N.D.(0.0015)	0.029	-
B-2	37.8121°	140.5058°		16:40	7.4	2.0	5.6	9.1	16.4	0.08	2.2	25	10.7	0.0041	0.11	-
B-3	37.8182°	140.4679°		15:30	8.0	1.1	3.3	10.5	10.0	0.05	1.3	5	2.2	N.D.(0.0012)	0.0038	-

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<Locations A and B along the Abukuma River: General survey items/Analysis of radioactive materials Sediment>

Locations	Latitude and longitude of the location		Survey date and time		pH	Redox potential E _{NHIE} (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm ³)	Grain size distribution								Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)
	Latitude	Longitude	Date	Time (sediment)							Gravel (2-75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)			
A-1	37.6210°	140.5218°	2021/6/24	11:30	7.3	41	42.1	8.2	20.8	2.590	0.0	0.2	1.6	23.9	52.0	22.3	0.029	2.0	19	490	0.33
A-2	37.5673°	140.3946°		13:40	6.8	310	20.5	1.5	1.5	2.735	10.5	35.4	42.6	5.4	1.2	4.9	0.78	19	4.2	100	-
B-2	37.8121°	140.5058°		16:50	7.3	196	26.4	1.9	2.3	2.683	0.0	0.8	44.5	43.0	5.2	6.5	0.23	2.0	2.9	100	-
B-3	37.8182°	140.4679°		15:40	7.4	346	15.7	1.1	1.2	2.634	32.1	32.9	23.0	6.7	2.0	3.3	1.3	9.5	2.1	37	-

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

