

Results 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>

Items	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>

Items	Latitude and longitude of the location		Survey date and time		Water	Sediment			Other		
	Latitude	Longitude	Date	Time (water)		Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)
A-1(Surface layer)	37.6210°	140.5218°	2017/8/30	09:55	24.0	23.1	Silt	2.5Y3/3	Plant pieces	6.40	>50 (1.2m)*
A-1(Bottom layer)				09:37		24.2					
A-2	37.5673°	140.3946°		12:25	20.2	20.0	Sand with silt	2.5Y4/3	Plant pieces	0.87	>50
B-2	37.8121°	140.5058°		15:36	21.6	21.2	Sand	2.5Y4/4	None	0.50	>50
B-3	37.8182°	140.4679°		14:27	19.1	20.1	Sand	2.5Y3/3	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>

Items	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°		09:55	7.4	0.8	4.0	8.5	16.2	0.09	1.6	8	3.3	0.0025	0.021	0.0012
A-1(Bottom layer)				09:37												
A-2	37.5673°	140.3946°	12:25	7.2	0.6	3.4	9.7	10.8	0.06	1.2	7	2.8	0.0033	0.025	-	
B-2	37.8121°	140.5058°	15:36	7.3	0.8	3.7	8.8	14.2	0.08	1.6	8	3.6	0.0032	0.022	-	
B-3	37.8182°	140.4679°	14:27	7.4	<0.5	3.5	10.0	8.2	0.05	1.4	4	1.8	0.0020	0.016	-	

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>

Items	Latitude and longitude of the location		Survey date and time		pH	Redox potential E _{NHE} (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°	2017/8/30	10:22	7.2	201	69.9	13.6	42.5	2.548	0.0	0.1	0.2	11.3	45.7	42.7	0.0091	2.0	250	1900	0.71
A-2				12:35																	
B-2				15:40	7.3	298	35.3	4.0	5.4	2.702	2.7	10.4	55.2	15.5	6.3	9.9	0.38	9.5	42	340	-
B-3				14:35																	

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

