○Results of Radioactive Material Monitoring of Aquatic Organisms (Location K off the mouth of the Abukuma River)

<Location K off the mouth of the Abukuma River: Samples collected>

Items / Locations	General items		Radioactive materials			
	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
K-1	-	○	-	-	○	-
K-2	○	○	○	○	○	○
K-3	-	○	-	-	○	-

<Location K off the mouth of the Abukuma River: Site measurement item>

Items / 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)	Secchi disk depth (m)
K-1	38.0457°	140.9282°	2016/12/7	-	09:03	-	12.7	Sand	5Y4/2	None	-	-
K-2(Surface layer)	38.0455°	140.9401°		08:21	08:48	10.9	13.3	Sand	2.5Y3/1	Juvenile shellfish a little	16.6	8.5
K-2(Bottom layer)				08:30		13.5						
K-3	38.0458°	140.9518°		-	08:03	-	13.3	Sand with silt	2.5Y3/3	None	-	-

<Location K off the mouth of the Abukuma River: General survey items/Analysis of radioactive materials Water>

Items / Locations	Latitude and longitude of the location		Survey date and time		pH	BOD	COD	DO	Electric conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
	Latitude	Longitude	Date	Time (water)		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
K-2(Surface layer)	38.0455°	140.9401°	2016/12/7	08:21	8.1	0.7	2.4	8.7	4010	32.69	0.9	2	1.5	N.D.(0.0014)	0.0047	-
K-2(Bottom layer)				08:30	8.0	0.5	1.1	8.3	5030	33.79	0.9	2	1.1	N.D.(0.0013)	0.0044	0.00081

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

<Location K off the mouth of the Abukuma River: General survey items/Analysis of radioactive materials Sediment>

Items / Locations	Latitude and longitude of the location		Survey date and time		pH	Redox potential $E_{N.H.E}$ (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)			
K-1	38.0457°	140.9282°	2016/12/7	09:03	8.0	256	21.6	1.4	0.9	2.700	0.1	2.1	46.9	49.3	1.3	0.3	0.25	4.8	5.1	35	-
K-2	38.0455°	140.9401°		08:48	7.7	251	33.2	2.5	2.3	2.703	0.0	0.2	1.5	70.2	20.1	8.0	0.11	2.0	13	87	N.D.(0.14)
K-3	38.0458°	140.9518°		08:03	7.7	243	41.0	4.2	5.0	2.661	0.0	0.1	0.4	28.5	63.1	7.9	0.062	2.0	24	170	-

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

<Location K off the mouth of the Abukuma River: Analysis items Aquatic organisms>

Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight (kg-wet)	Note			Radioactive cesium (Bq/kg-wet)			Sr-90 (Bq/kg-wet)
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	
Surrounding water area off the mouth of the Abukuma River	-	—	—	2016/12/7	Arthropoda	Malacostraca	Decapoda	Portunidae	*Portunus trituberculatus*	Japanese blue crab	3	1.2	Imago	-	-	2.10	0.40	1.7	-
					Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Kareius bicoloratus*	Stone flounder	2	2.2	Mature fish	Ragworm	Viscera removed	0.80	N.D.(0.35)	0.80	-
					Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	*Pleuronectes yokohamae*	Marbled sole	1	0.99	Mature fish	Ragworm	Viscera removed	2.36	0.46	1.9	-
					Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	*Paralichthys olivaceus*	Bastard halibut	1	1.7	Mature fish	Empty stomach	Viscera removed	0.67	N.D.(0.31)	0.67	-

*1: Organisms were collected in or around the targeted water areas.

*2: When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

*3: For a sample made of multiple types of aquatic organisms, the English name of the dominant one largest in number is underlined.

*4: Basically, measurement was conducted for all organism samples. Viscera (stomach and bowels) were removed for the measurement when possible so that undigested food and sediments, etc. in the digestive system would be excluded.

*5: Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net (40μm-mesh).

*6: River bottom materials (incl. algae) are algae, etc. that were scratched off stones with a brush, etc. and may include very fine particles such as inorganic silt and clay.

*7: N.D. means to be below the detection limit and figures in parentheses show the detection limit.

*8: Activity concentrations include counting errors, but the details are omitted here.