

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	Survey date and time			Latitude and longitude of the location		Water		Sediment				Other	
	Date	Time(Water)	Time(Sediment)	Latitude	Longitude	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Odor	Contaminants	Water depth (m)	Transparency (m)
K-1	2012/12/11	—	9:21	38.045683°	140.928233°	—	12.4	Fine sand	5Y-3/2	None	Shellfish	5.5	4.5
K-2	2012/12/11	8:41	9:03	38.045517°	140.940133°	11.6	12.4	Sediment with fine sand	5Y-3/2	None	Shell	15.8	5.5
K-3	2012/12/11	—	8:22	38.045833°	140.951800°	—	12.4	Silt with fine sand	5Y-3/2	None	Shell	20.5	4.5

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

Items Locations	Survey date and time		Latitude and longitude of the location		pH	BOD (mg/L)	COD (mg/L)	DO (mg/L)	Electrical conductivity (mS/m)	Salinity	TOC (mg/L)	SS (mg/L)	Turbidity (FNU)	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Sr-90 (Bq/L)
	Date	Time	Latitude	Longitude												
K-2 (Surface layer)	2012/12/11	8:41	38.045517°	140.940133°	8.1	0.6	1.8	8.8	4.440	31.64	0.8	2	1.5	0.012	0.019	—
K-2 (Deep layer)	2012/12/11	—	38.045517°	140.940133°	8.1	0.5	2.0	8.8	5.000	33.53	0.9	1	0.9	0.019	0.035	0.0014

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

Items Locations	Survey date and time		Latitude and longitude of the location		pH	Redox potential Eh _{HLE} (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)			
	Date	Time	Latitude	Longitude							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	2012/12/11	9:21	38.045683°	140.928233°	7.4	242	26.2	1.7	-1	2.716	—	0.7	42.3	54.0	1.4	1.6	0.230	2.00	51	86	—	
K-2	2012/12/11	9:03	38.045517°	140.940133°	7.7	28	40.8	4.4	3	2.711	—	0.1	0.4	54.9	25.1	19.5	0.086	2.00	120	220	N.D. (<0.20)	
K-3	2012/12/11	8:22	38.045833°	140.951800°	7.6	-1	51.0	8.0	12	2.656	—	0.4	0.3	10.4	56.3	32.6	0.014	2.00	200	340	—	

Note) N.D. means to be below the detection limit.

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

Location	Sampling Date	Latitude and longitude of the location		Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Cs-134 (Bq/kg-wet)	Cs-137 (Bq/kg-wet)	Sr-90 (Bq/kg-wet)	Note	
		Latitude	Longitude												Growth stage	Stomach contents
Surrounding water area off the mouth of the Abukuma River	2012/12/11	—	—	Vertebrata	Osteichthyes	Marbled rockfish	Fat greenling	<i>Hexagrammos otakii</i>	Fat greenling	1	0.50	3.6	5.7	—	Mature fish	Shrimps, squids
				Vertebrata	Osteichthyes	Righteye flounder	Flounder	<i>Paralichthys olivaceus</i>	Flounder	4	3.0	2.4	3.9	0.020	Mature fish	Small fish, shrimps, squids
				Vertebrata	Osteichthyes	Perciformes	Perciformes	<i>Lateolabrax japonicus</i>	Japanese sea bass	3	3.9	6.7	12	0.061	Mature fish	Empty stomach
				Vertebrata	Osteichthyes	Puffer	Puffer	<i>Takifugu pardalis</i>	Globefish	3	0.72	1.8	3.3	—	Mature fish	Empty stomach

Note) N.D. means to be below the detection limit.