

○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>

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>

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)	Secchi disk depth (m)
K-1	2012/11/6	-	9:46	38.045683°	140.928233°	-	18.2	Fine sand	5Y-4/1	None	None	5.0	1.8
K-2	2012/11/6	8:44	9:03	38.045517°	140.940133°	18.1	17.8	Sediment mingled with fine sand	5Y-4/2	None	Shells	16.5	2.7
K-3	2012/11/6	-	8:23	38.045833°	140.951800°	-	17.8	Sand mixed clay	2.5Y-3/2	None	Shells	20.3	3.5

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

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)	2012/11/6	8:44	38.045517°	140.940133°	8.1	<0.5	1.2	7.2	5,190	33.26	1.3	2	1.4	0.014	0.023	—
K-2 (Deep layer)	2012/11/6	8:44	38.045517°	140.940133°	8.1	<0.5	1.2	7.5	5,190	33.53	1.2	1	0.6	0.016	0.026	0.0012

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

Locations	Survey date and time		Latitude and longitude of the location		pH	Redox potential E <sub>NHE</sub> (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	Soil particle density (g/cm <sup>3</sup> )	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) (%)		Clay (Less than 0.005mm) (%)	Median grain diameter (mm)	Maximum grain diameter (mm)			
														Fine sand (0.075-0.25mm) (%)	Silt (0.005-0.075mm) (%)						
K-1	2012/11/6	9:46	38.045683°	140.928233°	7.7	207	25.7	2.0	<1	2.783	—	0.2	14.1	78.6	0.9	6.2	0.160	2.00	57	94	—
K-2	2012/11/6	9:03	38.045517°	140.940133°	7.7	209	36.8	3.4	1	2.735	—	0.1	0.4	55.0	24.3	20.2	0.092	2.00	160	260	N.D.(<0.23)
K-3	2012/11/6	8:23	38.045833°	140.951800°	7.6	82	47.9	8.5	14	2.727	—	0.1	0.4	17.9	46.5	35.1	0.023	2.00	170	310	—

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	2012/10/31	—	—	Arthropod	Malacostraca	Decapoda	Portunidae	<i>Portunus trituberculatus</i>	Japanese blue crab	5	1.8	N.D.(<0.87)	N.D.(<0.62)	—	Adult	—
				Vertebrata	Osteichthyes	Scorpaeniformes	Hemirhamphidae	<i>Hemirhamphus villosus</i>	Hemirhamphus villosus	6	4.0	2.5	4.0	N.D.(<0.02)	Mature fish	Empty stomach
				Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectidae	<i>Platichthys stellatus</i>	Starry flounder	5	1.6	12	20	—	Mature fish	Empty stomach
				Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	<i>Paralichthys olivaceus</i>	Bastard halibut	4	2.3	7.4	11	0.024	Mature fish	Small fish
				Vertebrata	Osteichthyes	Perciformes	Carangidae	<i>Seriola quinqueradiata</i>	Japanese amberjack	2	2.8	N.D.(<0.86)	0.91	—	Mature fish	Small fish
				Vertebrata	Osteichthyes	Perciformes	Lateolabracidae	<i>Lateolabrax japonicus</i>	Japanese sea bass	3	3.8	8.1	13	0.093	Mature fish	Small fish
				Vertebrata	Osteichthyes	Perciformes	Sparidae	<i>Acanthopagrus schlegelii</i>	Japanese black porgy	4	2.3	2.7	4.2	0.081	Mature fish	Empty stomach
				Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	<i>Takifugu pardalis</i>	Panther puffer	2	1.0	2.4	3.3	—	Mature fish	Empty stomach

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