○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	General items		Radioactive materials			
Locations	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	Latitude and longitude of the location		Survey date and time			Water	Sediment				Other	
Locations	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	38.0456°	140.9282°	2014/10/30	—	9:55	—	17.4	Fine sand	5Y3/2	None	—	—
K-2	38.0455°	140.9401°		8:52	9:15	16.4	17.8	Silt with sand	7.5Y3/1	None	15.6	6.5
K-3	38.0456°	140.9519°		—	9:32	—	17.5	Clay with sand	10Y3/1	None	—	—

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

Items	Latitude and longitude of the location		Survey date and time		pH	BOD	COD	DO	Electrical conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time		(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°	2014/10/30	8:52	8.2	<0.5	1.3	8.6	4,230	28.58	1.0	3	1.1	0.0025	0.0083	—
K-2 (Deep layer)				8:45	8.1	<0.5	1.2	6.5	5,180	33.48	0.9	5	1.0	0.0026	0.011	0.00077

＜Location K off the mouth of 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	Water content	IL	TOC	Soil particle density	Grain size distribution								Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time		$E_{N.H.E}$ (mV)	(%)	(%)	(mg/g-dry)	(g/cm3)	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)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
K-1	38.0456°	140.9282°	2014/10/30	9:55	7.7	280	23.8	1.3	1.4	2.845	0.0	0.4	13.4	74.2	5.5	6.5	0.16	2	19	66	—
K-2	38.0455°	140.9401°		9:15	7.5	182	45.4	5.8	10.6	2.712	0.0	0.1	0.2	15.6	57.3	26.8	0.053	2	130	480	N.D.(0.17)
K-3	38.0456°	140.9519°		9:32	7.6	139	59.7	7.2	18.1	2.682	0.0	0.1	0.1	4.4	58.4	37.0	0.017	2	310	950	—

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: Survey items　Aquatic organisms＞

Location		Latitude and longitude of the location		Sampling Date	Division	Class	Order	Family	Species name	English name	Population	Sample weight (kg-wet)	Note			Cs-134	Cs-137	Sr-90
		Latitude	Longitude										Growth stage	Stomach contents	Measurement site	(Bq/kg-wet)	(Bq/kg-wet)	(Bq/kg-wet)
Surrounding water area off the mouth of the Abukuma River	—	—	—	2014/10/30	Arthropod	Malacostraca	Decapoda	Portunidae	*Portunus trituberculatus*	Japanese blue crab	5	1.3	Imago	—	—	N.D.(0.29)	0.28	0.050
					Vertebrata	Osteichthyes	Pleuronectiformes	Pleuronectiformes	*Pleuronectes yokohamae*	Marbled sole	7	2.8	Mature fish (5-year-old)	Shrimps	Viscera removed	0.36	1.1	N.D.(0.012)
					Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	*Paralichthys olivaceus*	Bastard halibut	4	3.2	Mature fish (3-year-old)	Shrimps, fish	Viscera removed	N.D.(0.61)	0.43	N.D.(0.012)
					Vertebrata	Osteichthyes	Perciformes	Sparidae	*Evynnis japonica*	Crimson sea-bream	7	3.0	Mature fish (5-year-old)	Crabs	Viscera removed	N.D.(0.37)	0.73	0.015
					Vertebrata	Osteichthyes	Zeiformes	Zeidae	*Zeus faber*	John dory	3	2.8	Mature fish (4-year-old)	Flatfish, fish	Viscera removed	0.29	0.81	N.D.(0.018)

*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 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: A statement in red in the "Growth stage" column shows the age assessed based on squama or otolith

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

*7: 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.

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

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