○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 (Surface layer)	○	—	○	—	—	—
K-2 (Deep layer)	○	○	○	○	○	○
K-3	—	○	—	—	○	—

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

Items / Locations	Survey date and time			Latitude/Longitude		Water	Sediment					Other	
		Water	Sediment	Latitude	Longitude	Water temperature	Sediment temperature	Property	Color	Odor	Contaminants	Secchi disk depth	Water depth
K-1	2012/6/28	-	9:28	38.0383	140.9282	18.8	16.5	Fine sand	5Y-3/2	None	Shellfish fry	1.6	5.0
K-2 (Surface layer)		8:45	9:08	38.0455	140.9400	-	—	—	—	—	—	5.9	—
K-2 (Deep layer)						14.5	12.3	Fine sand	5Y-3/2	None	Shellfish fry	—	15.4
K-3		-	8:25	38.0461	140.9520	-	12.6	Clay with sand	10Y3/1	Faint hydrogen sulfide	Shellfish fry	5.5	20.4

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

Items / Locations	Survey date and time		Latitude/Longitude		pH	BOD	COD	DO	Electrical conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
			Latitude	Longitude	-	(mg/L)	(mg/L)	(mg/L)	(mS/m)	-	(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
K-1	2012/6/28	-	38.0383	140.9282	-	-	-	-	-	-	-	-	-	—	—	—
K-2 (Surface layer)		8:45	38.0455	140.9400	8.1	1.0	3.1	9.6	4,690	29.59	1.3	2	1.3	0.014	0.020	—
K-2 (Deep layer)					7.9	0.6	2.2	6.1	5,140	32.85	1.1	4	4.3	0.034	0.049	0.0052
K-3		-	38.0461	140.9520	-	-	-	-	-	-	-	-	-	—	—	—

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

Items / Locations	Survey date and time		Latitude and longitude of the location		pH	Redox potential	Water content	IL	TOC	Soil particle density	Grain size distribution								Cs-134	Cs-137	Sr-90
			Latitude	Longitude		E_{NHE} (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	2012/6/28	9:28	38.0383	140.9282	7.5	236	30.9	2.4	<1	2.722	—	0.1	2.2	80.2	8.3	9.2	0.14	2	110	160	—
K-2		9:08	38.0455	140.9400	7.7	-95	30.1	2.1	<1	2.745	—	0.1	3.7	72.8	12.4	11.0	0.13	2	53	64	ND(<0.22)
K-3		8:25	38.0461	140.9520	7.7	-94	52.8	7.3	11	2.657	—	0.1	0.4	5.6	53.7	40.2	0.015	2	1,000	1,400	—

＜Location K off the mouth of the Abukuma River: Analysis 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
K-1 K-2 K-3 (Off the mouth of the Abukuma River)	2012/6/28	38.0383 38.0455 38.0461	140.9282 140.9400 140.9520	Vertebrata	Perciformes	Perciformes	Lateolabracidae	*Lateolabrax japonicus*	Japanese sea bass	1	2.4	16	26	0.041	Mature fish	Small fish
				Vertebrata	Pleuronectiformes	Pleuronectiformes	Paralichthyidae	*Paralichthys olivaceus*	Bastard halibut	3	2.5	15	23	—	Mature fish	Shrimps,small fish
				Vertebrata	Pleuronectiformes	Pleuronectiformes	Pleuronectiformes	*Pleuronectes yokohamae*	Marbled sole	3	1.4	4.5	6.7	—	Mature fish	Shrimps, sandworms
				Vertebrata	Pleuronectiformes	Pleuronectiformes	Pleuronectiformes	*Kareius bicoloratus*	Stone flounder	3	1.4	15	25	—	Mature fish	Small fish, sandworms
				Vertebrata	Perciformes	Perciformes	Sciaenidae	*Pennahia argentata*	White croaker	7	2.3	12	19	—	Mature fish	Shrimps
				Vertebrata	Rajiformes	Rajiformes	Rajidae	—	Gastric contents (Shrimp)	—	0.11	6.6	9.5	—	—	—
				Arthropod	Decapoda	Decapoda	Portunidae	*Portunus trituberculatus*	Japanese blue crab	8	2.8	8.4	13	0.18	Imago	—
				Arthropod	Decapoda	Decapoda	Portunidae	*Ovalipes punctatus*	Ovalipes punctatus	9	1.8	3.4	5.0	—	Imago	—