## OResults 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	Gener	al items	Radioactive materials								
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)					
K-1	-	0	-	-	0	-					
K-2	0	0	0	0	0	0					
K-3	-	0	-	-	0	-					

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

	on R on the mount of the Abukuma River. She measurement remis													
Items	Latitude and long	itude of the location		Survey date and tir	ne	Water		S	Other					
Locations	Scheduled latitude Scheduled lon		Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Transparency (m)		
K-1	38.0457°	140.9282°		-	9:47	-	16.4	Sand	2.5Y3/3	None	-	-		
K-2 (Surface layer) K-2 (Deep layer)	38.0455°	140.9401°	2015/6/23	9:05 8:50	9:12	20.9 12.4	12.0	Fine sand	5Y2/2	None	16.6	3.2		
K-3	38.0458°	140.9518°		-	9:26	-	11.4	Silt with fine sand	10Y3/1	None	-	-		

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

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Items	Latitude and longitude of the location		Survey date and time		aU.	BOD	COD	DO	Electrical conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
Locations	Scheduled latitude	Scheduled longitude	Date	Time (water)	pri	(mg/L)	(mg/L)	(mg/L)	(mS/m)	Sammy	(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
K-2 (Surface layer)	38.0455°	140.9401°	2015/6/23	9:05	8.2	1.3	3.2	10	4380	28.83	1.7	3	2.8	0.0024	0.0073	-
K-2 (Deep layer)	36.0433	140.9401	2013/0/23	8:50	8	< 0.5	1.6	8.7	5120	33.21	1.1	8	5.4	0.0065	0.029	0.0016

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

	mouth of the Abukuma Ki																														
Items	Latitude and longitude of the location		ide and longitude of the location Survey date and							Soil particle				Grain si	ze distribution																
Locations	Scheduled latitude	Scheduled longitude	Date	Time (sediment)	pH	Redox potential EN.H.E (mV)	Water content (%)	IL (%)	TOC (mg/g-dry)	density (g/cm3)	Gravel (2-75mm) (%)	Coarse sand (0.85-2mm) (%)	Medium sand (0.25-0.85mm) (%)	Fine sand (0.075- 0.25mm) (%)	Silt (0.005-0.0075mm) (%)	Clay (Less than 0.005mm) (%)	Median grain diameter	Maximum grain diameter	Cs-134 (Bq/kg-dry)	Cs-137 (Bq/kg-dry)	Sr-90 (Bq/kg-dry)										
K-1	38.0457°	140.9282°	2015/6/23	9:47	8	286	20.8	1.6	1.5	2.66	0	0.9	59.7	36.1	0.2	3.1	0.29	2	8.1	36											
K-2	38.0455°	140.9401°		2015/6/23	2015/6/23	2015/6/23	2015/6/23	2015/6/23	2015/6/23	2015/6/23	2015/6/23	2015/6/23	2015/6/23	2015/6/23	9:12	7.6	160	30.2	2.5	2	2.684	0	0	1.3	68.6	24.5	5.6	0.1	2	29	99
K-3	38.0458°	140.9518°	•	9:26	7.5	-7	35.4	5.4	7.3	2.628	0	0.2	0.2	22.4	63	14.2	0.051	2	90	360	-										

Location K off the mo	outh of the Abukuma	River: Survey items Aquation	c organisms >															
Location	C1ii-t	Latitude and longitude	Latitude and longitude of the location		Division	Class	Order	F 1		English name	Population	Sample weight		Radioactive cesium (Bq/kg-wet)		Sr-90		
Location	Sampling point	Latitude	Longitude	Sampling Date	Division	Class	Order	ramity	Species name	English name	ropulation	(kg-wet)	Growth stage	Stomach contents	Measurement site	Cs-134	Cs-137	(Bq/kg-wet)
					Arthropod	Malacostraca	Decapoda	Portunidae	Portunus trituberculatus	Japanese blue crab	4	1.2	Imago	-	-	N.D. (0.3)	0.35	
					Vertebrata	Osteichthyes	Scorpaeniformes	Scorpaenidae	Sebastes cheni	Rockfish	1	0.050	Mature fish (2-year-old)	Shrimp	Viscera removed	N.D. (1.7)	1.2	
Surrounding water area					Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	Paralichthys olivaceus	Bastard halibut	2	2.7	Mature fish (2-year-old)	Anchovy	Viscera removed	0.32	0.98	N.D. (0.016)
off the mouth of the	-	-	-	2015/6/23	Vertebrata	Osteichthyes	Perciformes	Carangidae	Seriola quinqueradiata	Japanese amberjack	1	3.0	Mature fish	Anchovy	Viscera removed	N.D. (0.3)	0.68	N.D. (0.021)
Abukuma River					Vertebrata	Osteichthyes	Perciformes	Sciaenidae	Nibea mitsukurii	Nibe croaker	9	2.7	Mature fish (5,6,8-year-old)	Obscure digesta	Viscera removed	0.33	1.0	0.077
					Vertebrata	Osteichthyes	Tetraodontiformes	Tetraodontidae	Takifugu pardalis	Panther puffer	8	2.5	Mature fish	Empty stomach	Viscera removed	N.D. (0.3)	0.66	0.048
					Vertebrata	Osteichthyes	Zeiformes	Zeidae	Zeus faber	John dory	4	2.6	Mature fish	Sardines	Viscera removed	N.D. (0.4)	0.41	N.D. (0.021)

\*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.

\*2: went muniple yes to aquatio organisms were contected, a sample was prepared on ymming men.
\*3: For a sample made of multiple types of aquatio 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.