## 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	Genera	litems		Radioact	tive materials		
Locations	Water	Sediment	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>

	Items	Latitude and lo locat	ngitude of the tion	Si	urvey date and ti	me	Water		Sediment			Otl	er		
	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)		
Г	K-1	38.0456°	140.9285°		_	9:17	-	13.1	Fine sand	5Y3/2	None	_	_		
	K-2	38.0456°	140.9403°	2014/12/11	8:05	8:30	11.2	12.5	Fine sand	7.5Y3/1	Shellfish fry	17.1	4.7		
	K-3	38.0459°	140.9520°		_	8:52	_	12.7	Gravel with silt	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)	38.0456°	140.9403°	2014/12/11	8:05	8.1	< 0.5	1.5	9.4	4,620	29.60	0.9	2	1.5	0.0028	0.010	-
K-2 (Deep layer)	30.0430	140.9403	2014/12/11	8:10	8.0	< 0.5	1.5	8.5	5,100	33.51	0.9	5	1.3	0.0032	0.010	0.00096

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

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	Itome	Latitude and longitude of the		Survey da	Survey date and time						Cail partials	Grain size distribution										
	nems	loca	ition	Survey da	Survey date and time		Redox potential	Water content	IL	TOC	Soil particle density	Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Median grain	Maximum grain	Cs-134	Cs-137	Sr-90
		Latitude	Longitude	Data	Time	1	$E_{N,H,E}$				delisity	(2-75mm)	(0.85-2mm)	(0.25-0.85mm)	(0.075-0.25mm)	-0.25mm) (0.005-0.075mm)	(Less than 0.005mm)	diameter	diameter			
	Locations	Latitude	Longitude	Date	THIC		(mV)	(%)	(%)	(mg/g-dry)	(g/cm3)	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)
	K-1	38.0456°	140.9285°		9:17	7.7	196	21.7	1.4	0.7	2.751	0.0	6.2	59.3	28.6	2.0	3.9	0.36	2	14	49	_
	K-2	38.0456°	140.9403°	2014/12/11	8:30	7.6	194	33.1	2.9	1.8	2.723	0.0	0.0	1.4	67.6	10.2	20.8	0.12	2	33	98	N.D.(0.20)
	K-3	38.0459°	140.9520°		8:52	7.6	34	47.0	6.9	12.4	2.679	0.0	0.1	0.2	25.7	35.6	38.4	0.018	2	130	420	_

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 th location		Sampling Date Division		Order	Family	Species name	English name	Population Sample weigh		Note			Cs-134	Cs-137	Sr-90
			Latitude Longitud								-	(kg-wet)	Growth stage	Stomach contents	Measurement site	(Bq/kg-wet)	(Bq/kg-wet)	(Bq/kg-wet)
	rounding water area				Chordata	Actinopterygii	Scorpaeniformes	Platycephalidae	Platycephalus sp.	Flathead	1	0.47	Mature fish (3-year-old)	Fish	Viscera removed	0.52	2.8	-
	f the mouth of the	-		2014/12/11	Vertebrata	Osteichthyes	Pleuronectiformes	Paralichthyidae	Paralichthys olivaceus	Bastard halibut	1	3.7	Mature fish (6-year-old)	Empty stomach	Viscera removed	1.5	4.9	N.D.(0.019)
	Abukuma River				Vertebrata	Osteichthyes	Perciformes	Gobiidae	Acanthogobius flavimanus	Yellowfin Goby	2	0.025	Mature fish (1-year-old)	Gammaridea	Viscera removed	N.D.(1.8)	2.6	_

- \*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.