## OResults of Radioactive Material Monitoring of Aquatic Organisms (Location D along the Mano River)

<Location D along the Mano River: Samples collected>

Items	Genera	ıl items		Radioactiv	ve materials	
Locations	Water	Sediment	Water (Cs)	Water (Sr)	Sediment (Cs)	Sediment (Sr)
D-4 a	0	0	0	0	0	0

<Location D along the Mano River: Site measurement item>

Items			longitude of the ation		Survey date and time		Water		Sedi	ment		Ot	ther
Locations		Latitude	Longitude	Date	Time (water)	Time (sediment)	Water temperature (degrees C)	Sediment temperature (degrees C)	Property	Color	Contaminants	Water depth (m)	Transparency (cm)
	D-4 a	37.7308°	140.9081°	2021/12/8	13:15	13:30	10.1	10.1	Gravel with sand	10YR4/2	None	0.49	>50

<Location D along the Mano River: General survey items/Analysis of radioactive materials Water>

Items	Latitude and longitude of the location		Survey date and time		pН	BOD	COD	DO	Electric conductivity	Salinity	TOC	SS	Turbidity	Cs-134	Cs-137	Sr-90
Locations	Latitude	Longitude	Date	Time (water)		(mg/L)	(mg/L)	(mg/L)	(mS/m)		(mg/L)	(mg/L)	(FNU)	(Bq/L)	(Bq/L)	(Bq/L)
D-4 a	37.7308°	140.9081°	2021/12/8	13:15	7.3	<0.5	3.0	11.4	10.1	0.05	1.5	4	4.5	N.D.(0.0015)	0.015	0.00097

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<Location D along the Mano River: General survey items/Analysis of radioactive materials Sediment>

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Itame	Latitude and	ongitude of the	Survey de	ate and time										Grain si	ze distribution							
itens	loca	ition	Survey da	ne and time	pH	Redox potential	Water content	IL	TOC	Soil particle	Gravel	Coarse sand	Medium sand	Fine sand	Silt	Clay	Median grain	Maximum	Cs-134	Cs-137	Sr-90	
Locations	Latitude	Longitude	Data	Time (cadiment)		$E_{N.H.E}$				density	(2-75mm)	(0.85-2mm)	(0.25-0.85mm)	(0.075-0.25mm)	(0.005-0.075mm)	(Less than 0.005mm)	diameter	grain diameter			ı l	
Locations	Latitude	Latitude Longitude Date	Date	Time (sediment)		(mV)	(%)	(%)	(mg/g-dry)	(g/cm <sup>3</sup> )	(%)	(%)	(%)	(%)	(%)	(%)	(mm)	(mm)	(Bq/kg-dry)	(Bq/kg-dry)	(Bq/kg-dry)	
D-4 a	37.7308°	140.9081°	2021/12/8	13:30	7.8	349	19.5	1.8	2.4	2.690	34.4	42.0	10.7	3.4	4.9	4.6	1.5	19	3.5	130	0.55	

Note) N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<Location D along the Mano River: Analysis items Aquatic organisms>

Location D along ii	ie Mailo Kiver. Aliary																		
Locations	Sampling point	Latitude and longitude of the location		Sampling date	Division	Class	Order	Family	Scientific name	English name	Population	Sample weight	Note			Radioactive cesium (Bq/kg-wet)			Sr-90
	1 51	Latitude	Longitude	] ' "				1				(kg-wet)	Growth stage	Stomach contents	Measurement site	Total	Cs-134	Cs-137	(Bq/kg-wet)
	The main stream of the Mano River				Algae/plant	-	-	-	-	Riverbed Deposits (Include algae)	-	0.015	-	-	-	140	N.D.(5.8)	140	-
					Arthropoda	Insecta	Ephemeroptera	Ephemeridae	Ephemera strigata	Mont mayfly	154	0.0089	Larva	-	-	24	N.D.(3.5)	24	-
				2021/12/5	Arthropoda	Insecta	Trichoptera	Stenopsychidae	Stenopsyche marmorata	Stenopsyche marmorata	82	0.013	Larva	-	-	29	N.D.(2.4)	29	-
D-4 b		37.7312°	140.9096°		Arthropoda	Insecta	Odonata	Corduliidae	Macromia amphigena amphigena	Macromia amphigena		0.012	Larva(Dragonfly larva)			5.5	N.D.(3.8)		
D-4 0		37.7312	140.5050		Arthropoda	Insecta	Odonata	Gomphidae	Sieboldius albardae	Sieboldius albardae	50			-	-			5.5	-
		'			Arthropoda	Insecta	Odonata	Gomphidae	Davidius sp.	Davidius								/	
					Vertebrata	Osteichthyes	Anguilliformes	Anguillidae	Anguilla japonica	Japanese eel	1	0.42	Mature fish	Empty stomach	Viscera removed	14	N.D.(1.3)	14	-
					Vertebrata	Osteichthyes	Cypriniformes	Cyprinidae	Tribolodon hakonensis	Japanese dace	22	0.48	Immature fish,Mature fish	-	-	9.0	N.D.(1.4)	9.0	-
D-5	The main stream of the Mano River	37.7214°	140.8889°	2021/12/1	Vertebrata	Osteichthyes	Salmoniformes	Salmonidae	Oncorhynchus masou	Yamame trout	4	0.082	Immature fish	-		11	N.D.(3.3)	11	-

<sup>\*1:</sup> Organisms were collected in or around the targeted water areas.

<sup>\*2:</sup> When multiple types of aquatic organisms were collected, a sample was prepared by mixing them.

<sup>\*3:</sup> For a sample made of multiple types of aquatic organisms, the English name of the dominant one largest in number is underlined.

<sup>\*4:</sup> 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.

<sup>\*5:</sup> Plankton (suspended algae) is the residue remaining after the filtration of lake water or seawater with a plankton net ( $40\mu m$ -mesh).

<sup>\*6:</sup> 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.

<sup>\*7:</sup> N.D. means to be below the detection limit and figures in parentheses show the detection limit.

<sup>\*8:</sup> Activity concentrations include counting errors, but the details are omitted here.