

Results of the FY2015 Analysis of Radioactive Strontium

The analysis of radioactive strontium was conducted for locations in each prefecture where activity concentrations of radioactive cesium in sediments were relatively high.

As a result, activity concentrations of Sr-90 were in the range of not detectable to 150 Bq/kg(dry).

Location				Sampling Date	Sediment							
					General items (rereleased)			Activity concentration [Bq/kg(dry)]				
Prefecture	Water Body/Point							Sample length (cm)	Sediment content (%)	Property	Radioactive cesium (rereleased)	
				Cs-134	Cs-137	Total	Sr-90					
Miyagi Prefecture	Rivers	Abukuma River	Abukuma-ohashi Bridge (Iwanuma)	2015/5/31	3	66.9	Silt/sand	360	1,500	1,860	<0.39	
	Lakes and reservoirs	Sounoseki Dam	Dam site	2015/10/17	3	74.3	Sand	10	44	54	<0.29	
				2015/8/19	5	19.5	Silt	290	1,400	1,690	0.99	
		Lake Amanuma	Lake exit	2015/12/19	5	16.5	Silt	330	1,400	1,730	1.4	
				2015/8/20	3	72.6	Sand/gravel	130	580	710	<0.28	
				2015/10/19	5	19.5	Silt	790	3,700	4,490	0.36	
				2015/8/21	5	30.9	Silt	570	2,400	2,970	0.95	
				2015/12/23	5	36.9	Silt	560	2,700	3,260	0.41	
				2015/8/21	5	15.7	Silt	220	1,100	1,320	0.67	
	Lake Bagyunuma	Lake exit	2015/12/16	5	17.2	Silt	220	850	1,070	0.66		
2015/8/20			10	71.0	Sand/silt	55	210	265	<0.34			
Coastal areas	Offshore of Abukuma River Estuary	Offshore of Abukuma River Estuary	2015/10/21	5	73.2	Sand	24	100	124	<0.26		
			2015/5/26	10	33.9	Silt	560	2,000	2,560	<0.35		
Fukushima Prefecture	Rivers	Mano River	Majima Bridge	2015/12/6	5	73.3	Sand/silt	29	140	169	<0.29	
				2015/8/28	3	25.4	Silt/sand	4,100	16,000	20,100	1.9	
		Ota River	Masuda Bridge	2015/12/17	3	74.6	Sand/silt	460	2,100	2,560	<0.36	
				2015/8/14	3	75.4	Sand/gravel	3,000	12,000	15,000	0.44	
		Ukedo River	Murohara Bridge	2015/12/16	5	75.6	Gravel/sand	1,300	5,800	7,100	0.36	
				2015/9/17	5	78.5	Gravel/sand	70	310	380	<0.29	
		Abukuma River	Taisho Bridge	2015/10/13	3	85.6	Gravel/sand	9.8	49	58.8	<0.30	
				2015/5/21	5	55.3	Silt	160	650	810	0.46	
		Kyu-yukawa River	Awanomiya Bridge	2015/10/25	3	63.3	Silt/sand	76	310	386	0.37	
				2015/6/29	5	16.7	Silt	6,400	25,000	31,400	2.9	
	Lakes and reservoirs	Matsugabo Dam (Lake Utagawa)			2015/10/7	10	21.9	Silt	3,000	12,000	15,000	0.64
		Soso (farm pond)	Ainosawa	2015/5/24	5	49.8	Silt/sand	2,400	8,000	10,400	0.73	
				2015/12/12	3	43.6	Silt/sand	9,500	40,000	49,500	3.4	
		Ganbe Dam Reservoir			2015/8/22	6	31.5	Silt	13,000	52,000	65,000	3.4
					2015/10/3	5	34.2	Silt	11,000	43,000	54,000	3.4
		Soso (farm pond)	Fugane Dam	2015/8/19	5	45.5	Silt	4,100	16,000	20,100	1.2	
				2015/10/4	5	37.3	Silt/sand	2,100	8,200	10,300	1.3	
		Takanokura Dam Reservoir			2015/6/19	10	27.3	Silt	4,800	18,000	22,800	2.6
					2015/12/17	10	29.3	Silt	5,800	24,000	29,800	7.1
		Yokokawa Dam Reservoir			2015/8/21	5	51.1	Silt/sand	5,500	22,000	27,500	4.4
					2015/10/9	5	57.1	Silt/sand	8,400	35,000	43,400	7.3
		Soso (farm pond)	Ryugasaku	2015/8/27	3	23.2	Silt	3,400	14,000	17,400	2.2	
				2015/12/7	3	26.8	Silt	2,500	12,000	14,500	2.8	
		Ogaki Dam			2015/6/20	5	70.4	Sand/gravel	5,300	20,000	25,300	1.3
					2015/11/16	8	22.8	Sand/gravel	20,000	87,000	107,000	2.8
		Soso (farm pond)	Heigoiri	2015/8/19	5	47.6	Silt/sand	5,700	23,000	28,700	3.1	
				2015/10/4	5	27.0	Silt/sand	8,500	36,000	44,500	4.5	
			Mekurasawa No. 2	2015/6/11	5	57.9	Silt/sand/gravel	4,100	16,000	20,100	3.2	
				2015/10/12	3	74.3	Sand/gravel	1,900	8,800	10,700	0.83	
			Joroku	2015/8/8	3	34.0	Silt	43,000	180,000	223,000	47	
2015/10/15	3			19.2	Silt	79,000	360,000	439,000	150			
Sawairi No. 1	2015/6/18		3	21.4	Silt	200,000	720,000	920,000	40			
	2015/12/12		3	24.6	Silt	120,000	490,000	610,000	13			
Suzunai No. 4	2015/6/4		5	53.4	Silt	21,000	73,000	94,000	4.0			
	2015/12/12		5	55.2	Silt	15,000	66,000	81,000	2.8			
Nishihaguro			2015/12/11	3	57.3	Silt	4,200	18,000	22,200	1.0		

Location		Sampling Date	Sediment									
			General items (rereleased)			Activity concentration [Bq/kg(dry)]						
						Radioactive cesium (rereleased)			Radioactive Strontium			
Prefecture	Water Body/Point	Sample length (cm)	Sediment content (%)	Property	Cs-134	Cs-137	Total	Sr-90				
Fukushima Prefecture	Lakes and reservoirs	Sakashita Dam	2015/5/27	10	15.6	Silt	4,600	15,000	19,600	3.1		
			2015/12/3	8	28.1	Silt	3,800	16,000	19,800	3.6		
		Soso (farm pond)	Yonomori	2015/8/15	5	42.7	Silt/sand	7,200	28,000	35,200	4.0	
				2015/12/4	5	60.3	Sand/gravel	2,400	10,000	12,400	0.81	
		Takikawa Dam		2015/7/8	5	43.8	Silt	8,400	32,000	40,400	2.5	
				2015/12/16	5	33.7	Silt/sand	1,100	5,200	6,300	1.2	
		Soso (farm pond)	Kamisiageoka No. 1	2015/5/28	5	37.7	Silt/sand	3,100	11,000	14,100	0.70	
				2015/12/12	3	45.9	Sand/silt	1,300	6,100	7,400	<0.33	
		Kido Dam		2015/5/28	5	15.1	Silt	3,000	11,000	14,000	0.66	
				2015/7/9	5	25.2	Silt	3,800	14,000	17,800	3.8	
		Hokkawa Dam		2015/11/12	5	25.1	Silt	1,900	8,200	10,100	0.86	
				2015/8/7	5	26.3	Silt	1,100	4,700	5,800	1.7	
		Fukushima Prefecture	Coastal areas	Neighboring sea area of Soso Approx. 2,000 m offshore of Tsurushihama Fishing Port	2015/9/14	5	77.0	Sand	<4.4	15	15	<0.41
					2015/12/8	5	72.6	Sand	0.74	3.7	4.44	<0.30
Matsukawaura sea area Around center of Fishing Right Area-1	2015/9/15			5	42.7	Silt	460	2,000	2,460	0.78		
	2015/10/16			5	41.9	Silt/sand	550	2,400	2,950	0.61		
Neighboring sea area of Soso Approx. 2,000 m offshore of Mano River	2015/9/14			5	74.0	Sand	13	45	58	<0.42		
	2015/10/19			5	69.3	Sand	20	89	109	<0.27		
Neighboring sea area of Haramachi City Approx. 1,000 m offshore of Niida River	2015/9/14			5	77.9	Sand	62	260	322	<0.29		
	2015/10/19			4	75.2	Sand	54	230	284	<0.29		
Neighboring sea area of Haramachi City Approx. 1,000 m offshore of Ota River	2015/9/14			3	76.4	Sand	6.2	22	28.2	<0.37		
	2015/10/19			5	73.4	Sand	12	40	52	<0.28		
Neighboring sea area of Soso District Approx. 1,000 m offshore of Odaka River	2015/9/15			5	73.8	Sand	13	49	62	<0.38		
	2015/11/11			5	58.3	Sand	42	190	232	<0.28		
Neighboring sea area of Soso District Approx. 2,000 m offshore of Ukedo River	2015/6/25			5	50.8	Silt/sand	130	610	740	<0.29		
	2015/12/16			5	73.9	Sand	92	440	532	<0.28		
Neighboring sea area of Soso District Approx. 1,000 m offshore of Kumagawa River	2015/6/23			5	74.3	Sand	77	320	397	<0.32		
	2015/10/15			5	73.0	Sand	82	320	402	<0.28		
Neighboring sea area of Soso District Approx. 1,000 m offshore of Tomioka River	2015/8/10			10	74.8	Sand	110	370	480	<0.28		
	2015/11/6			5	75.4	Sand	84	400	484	<0.27		
Neighboring sea area of Naraha Town Approx. 1,000 m offshore of Kidogawa River	2015/7/7			5	64.9	Silt/sand	97	380	477	<0.32		
	2015/12/14			10	36.0	Silt/sand	340	1,400	1,740	0.37		
Approx. 1,000 m offshore of Asami River Estuary	2015/7/7			3	73.4	Sand	30	120	150	<0.40		
	2015/10/13			5	72.2	Sand	35	140	175	<0.29		
Approx. 1,000 m offshore of Ohisa River Estuary	2015/5/21			10	77.0	Sand	13	53	66	<0.36		
	2015/10/13			5	74.9	Sand	10	45	55	<0.26		
Neighboring sea area of Iwaki City Approx. 1,500 m offshore of Natsui River	2015/5/22			10	78.7	Sand	11	49	60	<0.38		
	2015/10/14			5	72.7	Sand	11	36	47	<0.27		
Onahama Port Approx. 400 m north of West breakwater No. 2	2015/9/17			5	48.3	Silt	80	410	490	<0.29		
	2015/12/15			10	44.6	Silt	88	420	508	<0.30		
Joban coastal sea area Approx. 1,000 m offshore of Binda River	2015/8/5	8	72.1	Sand	19	77	96	<0.38				
	2015/10/14	5	72.7	Sand	12	72	84	<0.27				

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Prefecture	Water Body/Point							Sample length (cm)	Sediment content (%)	Property		Radioactive cesium (rereleased)
				Cs-134	Cs-137	Total						
Ibaraki Prefecture	Rivers	Shinkawa River	Shinten Bridge	2015/8/13	12	23.9	Silt	340	1,500	1,840	0.83	
				2015/11/4	5	28.0	Silt	250	970	1,220	0.92	
		Bizen River	Bizengawa Bridge	2015/5/24	6	65.4	Silt/sand/gravel	360	1,400	1,760	<0.27	
				2015/11/4	6	62.7	Silt/sand	330	1,500	1,830	<0.36	
	Lakes and reservoirs	Lake Kasumigaura	Center	2015/9/4	15	14.8	Silt	100	510	610	0.61	
				2015/11/30	9	15.9	Silt	35	130	165	0.58	
		Lake Ushikunuma	Center of Lake Ushikunuma	2015/5/20	8	24.4	Silt	170	630	800	0.41	
				2015/11/28	8	26.4	Silt	130	530	660	0.34	
Mizunuma Dam	Center	2015/8/21	8	15.8	Silt	570	2,500	3,070	2.1			
		2015/11/6	5	17.7	Silt	530	2,200	2,730	2.6			
Tochigi Prefecture	Rivers	Akabori River	Nikko City Hall, front	2015/5/15	5	44.8	Sand/gravel	210	800	1,010	<0.28	
	Lakes and reservoirs	Ikari Dam Reservoir	Center	2015/5/29	10	28.6	Silt	360	1,400	1,760	0.47	
				2015/12/7	5	30.5	Silt	73	260	333	2.2	
Gunma Prefecture	Lakes and reservoirs	Lake Naramata (Naramata Dam)	Center	2015/8/6	10	27.6	Silt	380	1,400	1,780	1.8	
				2015/10/1	10	28.0	Silt	530	2,500	3,030	2.0	
		Lake Fujiwara (Fujiwara Dam)	Center	2015/8/7	10	38.9	Silt	240	1,000	1,240	1.5	
				2015/12/1	10	33.0	Silt	200	1,100	1,300	1.7	
		Lake Akagionuma	Center	2015/6/16	10	14.1	Silt	440	1,300	1,740	2.4	
				2015/11/16	10	13.5	Silt	420	1,500	1,920	1.7	
		Lake Okushima (Shimagawa Dam)	Center	2015/6/8	10	29.0	Silt	970	3,600	4,570	0.76	
				2015/12/9	7	29.5	Silt	370	1,700	2,070	0.67	
Chiba Prefecture	Rivers	Ohori River	Kitakashiwa Bridge	2015/8/18	5	61.6	Silt	480	1,900	2,380	<0.38	
				2015/11/17	5	68.8	Sand	280	1,200	1,480	<0.29	
		Otsu River	Kaminuma Bridge	2015/8/18	5	29.8	Silt	690	2,600	3,290	0.35	
				2015/11/17	5	57.2	Sand	650	2,800	3,450	<0.30	
	Lakes and reservoirs	Lake Teganuma	Center area of Teganuma	Unga Bridge	2015/11/18	7	29.5	Silt	440	2,000	2,440	0.35
					2015/6/11	15	23.7	Silt	230	930	1,160	0.36
			Nedoshita	2015/12/21	10	23.2	Silt	210	900	1,110	0.41	
				2015/6/11	11	36.5	Silt	710	2,800	3,510	0.52	
2015/12/21	10	32.8	Silt	580	2,600	3,180	0.61					