

Results of the FY2018 Analysis of Radioactive Strontium

The analysis of radioactive strontium was conducted for locations 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 17Bq/kg(dry).

Location				Sampling Date	Sediment							
					General items (see above)			Activity concentration [Bq/kg(dry)]				
								Radioactive cesium (see above)		Radioactive Strontium		
Prefecture	Water Body/Point			Sample length (cm)	Sediment content (%)	Property	Cs-134	Cs-137	Total	Sr-90		
Miyagi Prefecture	River	Abukuma River	Abukuma-ohashi Bridge (Iwanuma)	2018/7/20	3	48.7	Silt/sand	41	520	561	0.38	
				2018/10/16	3	42.0	Sand/silt	66	620	686	0.62	
	Lake and reservoirs	Sounoseki Dam	Dam site	2018/8/23	5	14.4	Silt	66	960	1,026	1.2	
				2018/10/30	5	15.9	Silt	97	1,300	1,397	0.86	
		Shichikasyuku Dam	Dam site	2018/8/13	5	29.7	Silt	180	1,800	1,980	0.73	
				2018/10/17	5	29.0	Silt	130	1,400	1,530	0.68	
	Coastal area	Offshore of Abukuma River Estuary		2018/10/21	3	54.3	Sand/silt	85	950	1,035	0.57	
				2018/5/21	5	71.7	Sand	7.4	82	89.4	<0.31	
	Fukushima Prefecture	River	Ota River	Masuda Bridge	2018/10/6	5	71.3	Sand	<5.1	57	57	<0.26
					2018/8/27	5	49.4	Silt/sand	160	1,800	1,960	<0.32
2018/10/20					5	67.5	Silt/sand	120	1,400	1,520	<0.41	
Ukedo River			Murohara Bridge	2018/9/10	5	77.5	Gravel/sand	420	4,500	4,920	<0.29	
				2018/12/15	5	77.3	Gravel/sand	350	4,300	4,650	0.44	
				2018/8/6	3	45.0	Silt	28	350	378	<0.41	
Kyu-yukawa River		Awanomiya Bridge	2018/11/20	3	49.3	Silt/sand	35	410	445	0.34		
			2018/8/16	10	18.9	Silt	680	6,700	7,380	1.3		
Lake and reservoirs		Matsugabo Dam (Lake Utawaga)		2018/12/13	10	18.3	Silt	650	7,500	8,150	1.1	
				2018/6/7	5	29.4	Silt	5,400	50,000	55,400	8.2	
		Soso (farm pond)	Ainosawa	2018/10/1	3	39.1	Silt	1,500	16,000	17,500	5.2	
				2018/6/2	8	31.5	Silt	5,800	57,000	62,800	3.7	
		Ganbe Dam Reservoir		2018/11/20	8	35.7	Silt	2,200	24,000	26,200	1.4	
				2018/6/6	3	37.3	Silt/sand	1,300	13,000	14,300	2.5	
		Soso (farm pond)	Fugane Dam	2018/11/18	3	44.6	Silt/sand	1,100	11,000	12,100	2.9	
				2018/6/2	3	32.8	Silt/sand/gravel	950	10,000	10,950	1.1	
		Takanokura Dam Reservoir		2018/5/11	8	28.6	Silt	2,300	22,000	24,300	4.4	
				2018/12/10	10	31.4	Silt	2,000	22,000	24,000	3.7	
		Yokokawa Dam Reservoir		2018/6/4	8	43.8	Silt/sand	2,400	23,000	25,400	6.1	
				2018/10/15	7	37.5	Silt/sand	1,800	19,000	20,800	4.2	
		Soso (farm pond)	Koakuto	2018/8/18	5	28.0	Silt/sand	4,100	41,000	45,100	2.6	
				2018/10/13	5	26.8	Silt	6,300	70,000	76,300	6.9	
			Yosouchi	2018/6/2	3	40.4	Sand/silt	2,500	24,000	26,500	2.3	
				2018/10/1	5	29.2	Silt/sand	1,800	21,000	22,800	3.2	
		Ogaki Dam		2018/5/16	10	28.1	Silt	11,000	110,000	121,000	15	
				2018/10/13	3	42.4	Silt/sand	5,500	57,000	62,500	5.1	
		Soso (farm pond)	Heigoiri	2018/6/7	5	31.9	Silt	3,400	31,000	34,400	5.3	
				2018/10/9	5	24.4	Silt	3,400	37,000	40,400	4.9	
			Joroku	2018/5/6	3	55.7	Silt/sand	1,100	12,000	13,100	3.1	
				2018/12/9	5	47.2	Silt	930	11,000	11,930	2.8	
			Sawairi No. 1	2018/5/28	3	27.0	Silt	29,000	270,000	299,000	17	
				2018/11/19	5	30.8	Silt	29,000	320,000	349,000	15	
				2018/5/25	5	38.2	Silt	7,500	68,000	75,500	2.7	
				2018/11/19	5	47.8	Silt	4,100	45,000	49,100	1.3	
		Suzunai No. 4	2018/5/10	10	19.9	Silt	1,100	11,000	12,100	2.5		
			2018/11/14	10	23.3	Silt	800	9,800	10,600	2.3		
		Sakashita Dam			2018/6/12	5	63.6	Silt/sand/gravel	1,000	10,000	11,000	1.3
		Soso (farm pond)	Yonomori		2018/12/16	3	60.2	Silt/sand/gravel	890	11,000	11,890	1.0
	Soso (farm pond)	Kamisiageoka No. 1	2018/6/19	3	27.0	Silt/sand	1,600	16,000	17,600	1.2		
			2018/12/18	3	24.9	Silt/sand	1,100	12,000	13,100	1.3		
Kido Dam		2018/7/11	6	26.4	Silt	550	5,200	5,750	1.6			
		2018/10/9	8	25.3	Silt	280	3,400	3,680	1.7			
Hokkawa Dam		2018/6/5	7	26.8	Silt	390	3,700	4,090	1.4			
		2018/10/4	8	25.0	Silt	460	5,000	5,460	1.3			

Prefecture	Location	Water Body/Point	Sampling Date	Sediment							
				General items (see above)			Activity concentration [Bq/kg(dry)]				
				Sample length (cm)	Sediment content (%)	Property	Radioactive cesium (see above)		Radioactive Strontium		
			Cs-134	Cs-137	Total	Sr-90					
Fukushima Prefecture	Coastal areas	Neighboring sea area of Soso Approx. 2,000 m offshore of Tsurushihama Fishing Port	2018/9/4	7	77.4	Sand	<0.47	1.4	1.4	<0.36	
			2018/12/4	8	77.4	Sand	<0.55	1.8	1.8	<0.25	
		Matsukawaura sea area Around center of Fishing Right Area-1	2018/8/6	5	74.1	Sand/silt	<5.9	43	43	<0.29	
			2018/11/5	5	72.1	Silt/sand	8.6	110	118.6	<0.25	
		Neighboring sea area of Soso Approx. 2,000 m offshore of Manogawa River	2018/7/9	7	66.7	Sand/silt	<7.3	77	77	<0.30	
			2018/12/4	7	70.0	Sand	<6.2	22	22	<0.29	
		Neighboring sea area of Haramachi-shi Approx. 1,000 m offshore of Niida River	2018/9/7	5	70.6	Sand	17	170	187	<0.33	
			2018/10/3	5	70.8	Sand	<5.2	80	80	<0.25	
		Neighboring sea area of Haramachi-shi Approx. 1,000 m offshore of Otagawa River	2018/9/7	7	74.9	Sand	<6.0	31	31	<0.34	
			2018/11/6	5	71.9	Sand	<6.6	23	23	<0.27	
		Neighboring sea area of Soso District Approx. 1,000 m offshore of Odaka River	2018/9/6	5	68.9	Sand	7.4	61	68.4	<0.31	
			2018/12/3	5	73.7	Sand	<5.4	17	17	<0.27	
		Neighboring sea area of Soso District Approx. 2,000 m offshore of Ukedo River	2018/6/15	5	73.9	Sand	10	110	120	<0.33	
			2018/11/7	5	45.2	Silt/sand	29	340	369	<0.28	
		Neighboring sea area of Soso District Approx. 1,000 m offshore of Kumagawa River	2018/9/10	7	64.9	Sand	20	200	220	<0.35	
			2018/10/10	5	72.9	Sand	11	100	111	<0.29	
		Neighboring sea area of Soso District Approx. 1,000 m offshore of Tomioka River	2018/5/22	5	68.9	Sand	30	290	320	<0.32	
			2018/11/7	5	73.5	Sand	15	190	205	<0.26	
		Neighboring sea area of Narahamachi Town Approx. 1,000 m offshore of Kidogawa River	2018/8/3	5	64.3	Sand	18	220	238	<0.34	
			2018/10/11	5	73.1	Sand	6.3	71	77.3	<0.29	
		Approx. 1,000 m offshore of Asami River Estuary	2018/7/12	5	72.4	Sand	<6.1	62	62	<0.28	
			2018/10/11	5	68.3	Sand	<6.2	70	70	<0.26	
		Approx. 1,000 m offshore of Ohisa River Estuary	2018/5/21	5	74.9	Sand	<5.3	33	33	<0.31	
			2018/10/11	5	72.3	Sand	<6.1	34	34	<0.28	
Neighboring sea area of Iwaki-shi Approx. 1,500 m offshore of Natsui River	2018/9/12	5	73.0	Sand	<5.2	18	18	<0.33			
	2018/12/11	10	75.0	Sand	<5.0	13	13	<0.27			
Onahama Port Approx. 400 m north of Nishibouhatei No. 2	2018/5/18	7	42.5	Silt/sand	47	390	437	<0.33			
	2018/11/9	7	47.9	Silt/sand	27	340	367	<0.27			
Joban coastal sea area Approx. 1,000 m offshore of Binda River	2018/9/12	7	66.9	Sand	8.7	91	99.7	<0.31			
	2018/12/13	5	69.1	Sand	6.0	63	69.0	<0.26			
Ibaraki Prefecture	Rivers	Shinkawa River	Shinten Bridge	2018/8/15	5	22.8	Silt	49	540	589	0.61
				2018/11/5	8	24.9	Silt	57	530	587	1.1
	Bizen River	Bizengawa Bridge	2018/5/16	3	64.9	Sand/silt	110	1,100	1,210	<0.31	
			2018/11/5	1	34.0	Silt	110	1,300	1,410	0.57	
	Lake and reservoirs	Lake Kasumigaura	Center	2018/8/2	6	14.6	Silt	<42	410	410	0.73
				2018/11/7	10	16.0	Silt	<31	240	240	1.0
				2018/5/15	7	22.7	Silt	45	550	595	<0.35
				2018/11/21	10	22.0	Silt	52	520	572	0.76
2018/8/22				7	12.6	Silt	130	1,800	1,930	2.3	
2018/11/15				10	13.8	Silt	170	1,700	1,870	2.3	
Koyama Dam	Center	2018/5/25	10	24.3	Silt	190	1,400	1,590	1.3		
		2018/5/28	7	32.4	Silt	73	950	1,023	0.45		
Tochigi Prefecture	Lake and reservoir	Miyama Dam Reservoir	Center	2018/12/10	10	34.3	Silt	79	1,000	1,079	0.62
				2018/5/31	5	46.9	Silt	<16	85	85	0.50
				2018/10/18	5	43.9	Silt	<14	150	150	0.86
				2018/5/28	10	27.4	Silt	170	1,800	1,970	1.4
Gunma Prefecture	Lake and reservoirs	Lake Naramata (Naramata Dam)	Center	2018/10/16	7	27.5	Silt	250	2,600	2,850	1.6
				2018/11/16	10	29.5	Silt	95	1,000	1,095	1.7
		Lake Tannbara (Tannbara Dam)	Center	2018/8/2	10	34.2	Silt	120	1,100	1,220	0.54
				2018/8/2	10	13.1	Silt	120	1,100	1,220	1.4
		Lake Akaya (Aimata Dam)	Center	2018/10/3	10	12.1	Silt	140	1,700	1,840	1.8
				2018/5/25	10	25.1	Silt	140	1,200	1,340	0.94
		Lake Akagionuma	Center	2018/12/7	5	28.7	Silt	92	1,100	1,192	0.80
				2018/8/29	10	26.8	Silt	150	1,600	1,750	0.49
Lake Okushima (Shimagawa Dam)	Center	2018/5/11	5	44.9	Silt	170	1,700	1,870	<0.32		
		2018/11/12	2	63.3	Sand	77	990	1,067	<0.37		
Chiba Prefecture	Rivers	Ohori River	Kitakashiwa Bridge	2018/8/1	5	27.5	Silt	160	1,800	1,960	0.41
				2018/11/12	3	45.5	Silt/sand	93	1,100	1,193	0.34
		Otsu River	Kaminuma Bridge	2018/8/6	3	73.9	Sand	91	950	1,041	<0.23
				2018/5/30	6	24.7	Silt	86	960	1,046	<0.34
		Igasu Channel	Downstream of Igasu Channel	2018/5/8	1	37.9	Silt/gravel	120	1,200	1,320	0.29
				2018/6/20	10	26.1	Silt	79	700	779	0.64
	Lake and reservoirs	Lake Teganuma	Center area of Teganuma	2018/12/14	10	22.5	Silt	78	750	828	0.51
				2018/6/20	10	29.7	Silt	200	2,200	2,400	0.69
			Nedoshita	2018/12/14	10	27.3	Silt	190	1,900	2,090	0.61