

Results of the FY2019 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 12Bq/kg(dry).

Location				Sampling Date	Sediment						
					General items (see above)			Activity concentration [Bq/kg(dry)]			
Prefecture	Water Body/Point			Sample length (cm)	Sediment content (%)	Property	Radioactive cesium (see above)			Radioactive Strontium	
							Cs-134	Cs-137	Total	Sr-90	
Miyagi Prefecture	River	Abukuma River	Abukuma-obashi Bridge (Iwanuma)	2019/6/12	3	33.8	Silt	71	820	891	0.45
	Lake and reservoirs	Sounoseki Dam	Dam site	2019/12/13	3	74.4	Sand/gravel	<5.1	4.5	4.5	-0.35
		Shichikasyuku Dam	Dam site	2019/5/21	5	14.8	Silt	88	1,000	1,088	0.70
Fukushima Prefecture	River	Ota River	Masuda Bridge	2019/5/17	5	66.9	Sand/silt	76	1,200	1,276	-0.27
				2019/10/11	3	79.5	Sand/silt	51	760	811	-0.28
				2019/9/8	5	78.2	Gravel/sand	300	4,200	4,500	0.42
	Ukedo River	Murohara Bridge	2019/11/26	5	76.1	Sand/gravel	140	1,900	2,040	0.28	
			2019/6/18	3	51.7	Silt	19	300	319	0.46	
			2019/11/21	3	48.5	Silt/sand	24	380	404	0.41	
	Kyu-yukawa River	Awanomiya Bridge	2019/5/8	8	20.0	Silt	420	5,500	5,920	1.3	
			2019/11/25	10	36.1	Silt	100	1,700	1,800	0.84	
			2019/5/8	5	32.2	Silt/sand	4,500	58,000	62,500	3.1	
	Lake and reservoirs	Matsugabo Dam (Lake Utagawa)	Ainosawa	2019/11/2	3	41.4	Silt/sand	1,800	25,000	26,800	3.3
				2019/5/11	5	34.7	Silt	2,000	24,000	26,000	1.7
				2019/10/5	5	32.1	Silt	1,300	17,000	18,300	2.2
		Soso (farm pond)	Sasatoge	2019/5/11	5	39.4	Silt/sand	1,500	20,000	21,500	2.1
				2019/6/5	10	30.8	Silt	1,200	15,000	16,200	4.2
				2019/10/10	10	31.1	Silt	1,100	16,000	17,100	4.8
		Yokokawa Dam Reservoir	Koakuto	2019/10/10	5	49.5	Sand/silt	920	14,000	14,920	2.5
				2019/11/26	5	43.1	Sand/silt	730	10,000	10,730	1.1
				2019/5/8	5	38.0	Silt/sand	1,500	19,000	20,500	2.3
		Soso (farm pond)	Yosouchi	2019/7/6	10	33.4	Silt	6,000	82,000	88,000	7.8
				2019/11/17	10	37.3	Silt	4,700	70,000	74,700	12
				2019/6/17	5	37.3	Silt	2,900	36,000	38,900	4.9
		Ogaki Dam	Heigoiri	2019/10/9	3	39.5	Silt/sand	2,300	32,000	34,300	6.7
				2019/10/6	3	62.6	Silt/sand	760	13,000	13,760	3.0
				2019/8/27	3	49.7	Silt	2,700	41,000	43,700	4.4
		Soso (farm pond)	Joroku	2019/11/14	3	45.6	Silt	2,200	38,000	40,200	8.1
				2019/6/19	5	38.6	Silt	27,000	340,000	367,000	12
				2019/11/26	3	26.5	Silt	9,100	140,000	149,100	7.6
		Suzunai No. 4	Sawairi No. 1	2019/5/6	5	38.2	Silt	4,300	53,000	57,300	1.9
				2019/12/14	5	54.9	Silt/sand	4,600	72,000	76,600	3.6
				2019/8/17	5	50.1	Silt/sand	1,400	19,000	20,400	3.2
Nisihaguro		Sakashita Dam	2019/11/28	5	56.4	Silt/sand	2,300	37,000	39,300	2.4	
			2019/5/10	8	20.8	Silt	690	10,000	10,690	2.3	
			2019/10/4	5	57.3	Silt	700	10,000	10,700	1.4	
Soso (farm pond)		Yonomori 2	2019/5/20	3	28.9	Silt/sand	840	12,000	12,840	0.77	
			2019/10/15	3	36.8	Silt/sand	600	9,700	10,300	0.73	
			2019/7/10	10	29.9	Silt	310	3,800	4,110	1.5	
Kido Dam		Kamisigeoka No. 1	2019/10/9	8	27.2	Silt	200	3,000	3,200	1.7	
			2019/5/9	7	25.6	Silt	260	3,600	3,860	1.2	
Hokkawa Dam					2019/10/2	8	31.8	Silt	270	3,900	4,170

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Prefecture	Water Body/Point			Sample length (cm)	Sediment content (%)	Property	Cs-134	Cs-137	Total	Sr-90		
Ibaraki Prefecture	Rivers	Shinkawa River	Shinten Bridge	2019/5/24	7	22.2	Silt	47	500	547	0.47	
				2019/11/12	5	40.4	Silt	28	390	418	0.71	
		Bizen River	Bizengawa Bridge	2019/8/14	5	65.7	Silt/sand	62	990	1,052	0.47	
	Lake and reservoirs	Lake Kasumigaura	Center	2019/11/12	5	64.7	Sand	61	920	981	-0.32	
				2019/8/8	10	19.4	Silt	23	360	383	0.56	
				2019/11/19	7	20.6	Silt	<18	360	360	0.44	
		Lake Ushikunuma	Center of Lake Ushikunuma	2019/5/27	10	22.0	Silt	36	520	556	0.47	
				2019/11/7	10	30.7	Silt	27	390	417	0.54	
		Mizunuma Dam	Center	2019/8/7	8	20.4	Silt	110	1,200	1,310	1.9	
		Zyuou Dam	Center	2019/8/8	10	26.2	Silt	77	980	1,057	0.70	
		2019/11/13	10	29.6	Silt	66	1,100	1,166	0.82			
		Ryuuzinn Dam	Center	2019/5/14	6	16.3	Silt	73	1,000	1,073	1.8	
Tochigi Prefecture	Lake and reservoir	Ikari Dam Reservoir	Center	2019/5/29	10	38.5	Silt	8.2	88	96.2	0.68	
				2019/10/17	10	47.2	Silt	10	100	110	0.46	
		Lake Unoko	Center	2019/5/23	10	11.7	Silt	110	1,600	1,710	-0.61	
Gunma Prefecture	Lake and reservoirs	Lake Okutone (Yagisawa Dam)	Center	2019/5/28	7	30.3	Silt	92	1,300	1,392	0.93	
				2019/5/27	8	27.4	Silt	200	2,600	2,800	2.2	
		Lake Naramata (Naramata Dam)	Center	2019/11/21	5	32.9	Silt	86	1,200	1,286	1.6	
		Lake Tannbara (Tannbara Dam)	Center	2019/5/8	10	29.4	Silt	150	1,700	1,850	0.93	
				2019/11/19	10	30.4	Silt	190	3,000	3,190	1.7	
		Lake Akagionuma	Center	2019/10/1	10	15.9	Silt	120	1,600	1,720	1.6	
		Lake Okushima (Shimagawa Dam)	Center	2019/8/16	5	35.9	Silt	74	1,100	1,174	0.77	
				2019/5/23	10	29.8	Silt	79	970	1,049	0.71	
		Lake Nozori (Nozori Dam)	Center	2019/10/4	10	32.5	Silt	84	930	1,014	0.56	
Chiba Prefecture	Rivers	Ohori River	Kitakashiwa Bridge	2019/8/20	5	49.4	Sand/silt	130	1,700	1,830	0.39	
				2019/11/7	5	73.4	Sand/silt	40	650	690	-0.27	
		Otsu River	Kaminuma Bridge	2019/5/27	5	23.0	Silt/sand	120	1,700	1,820	0.33	
				2019/11/7	5	51.2	Sand/silt	44	700	744	-0.25	
		Toneunga Canal	Unga Bridge	2019/8/22	3	71.4	Sand/silt	29	390	419	-0.34	
				2019/11/21	3	66.7	Sand/silt	31	490	521	-0.34	
	Lake and reservoirs	Lake Teganuma	Center area of Teganuma		2019/6/14	10	28.5	Silt	53	720	773	0.36
					2019/12/10	10	29.0	Silt	51	700	751	0.55
			Nedoshita		2019/6/14	10	34.2	Silt	170	2,100	2,270	0.49
					2019/12/10	9	35.2	Silt/sand	95	1,800	1,895	0.57