

Results of Nuclide Analyses of Sub-drain Water nearby Centralized Radiation Waste Treatment Facility (1/3)

I-131 (Bq/cm³)

Place of sampling	Before transfer				After transfer																							
	4/16	4/17	4/18	4/19	4/20	4/21	4/22	4/23	4/24	4/25	4/26	4/27	4/28	4/29	4/30	5/1	5/2	5/3	5/4	5/5	5/6	5/7	5/8	5/9	5/10	5/11	5/12	5/13
①	-	0.83	0.54	0.32	0.15	2.1	-	0.21	0.18	0.093	0.074	0.049	0.06	0.032	0.025	0.008	0.012	0.018	0.022	0.012	0.016	ND	ND	ND	0.008	ND	ND	0.16
②	0.13	0.11	0.11	0.087	0.11	0.11	0.11	0.19	0.16	0.21	0.19	0.18	0.16	0.16	0.16	0.12	0.095	0.089	0.098	0.09	0.11	0.081	0.075	0.065	0.063	0.053	0.046	0.04
③	-	-	-	0.038	0.053	0.06	0.056	0.051	0.035	0.031	0.028	0.023	0.027	0.022	0.021	0.012	0.023	0.017	0.023	0.03	0.028	0.016	0.019	0.018	0.017	0.014	0.012	0.015
④	0.091	-	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
⑤	0.5	0.35	0.42	0.34	0.33	0.15	0.069	0.15	0.78	0.23	0.13	0.12	0.19	0.083	0.062	0.051	0.054	0.022	0.019	0.018	0.027	0.023	0.051	0.018	0.052	0.043	0.03	0.05
⑥	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.059	-	-	0.056	-	-	-	-	-	-	-	-	-	-

Cs-134 (Bq/cm³)

Place of sampling	Before transfer				After transfer																							
	4/16	4/17	4/18	4/19	4/20	4/21	4/22	4/23	4/24	4/25	4/26	4/27	4/28	4/29	4/30	5/1	5/2	5/3	5/4	5/5	5/6	5/7	5/8	5/9	5/10	5/11	5/12	5/13
①	-	0.083	0.076	0.097	0.096	0.48	-	0.22	0.15	0.12	0.12	0.12	0.21	0.12	0.15	0.065	0.1	0.14	0.09	0.086	0.062	0.041	0.06	0.053	0.11	0.025	0.041	0.15
②	ND	0.048	0.033	0.046	0.071	0.024	0.026	ND	0.025	0.025	0.02	0.022	0.045	0.031	0.014	ND	0.021	ND	ND	ND	0.21	ND	ND	ND	ND	0.02	0.011	0.029
③	-	-	-	0.007	0.012	0.047	ND	0.023	0.03	ND	ND	ND	0.035	ND	0.018	0.009	0.028	ND	0.013	ND	ND	ND	0.007	ND	ND	0.01	ND	0.15
④	0.037	-	0.016	-	-	-	-	-	-	0.015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
⑤	0.45	0.3	0.19	0.073	0.092	0.099	0.066	0.077	0.15	0.054	0.054	0.07	0.071	0.045	0.06	0.062	0.082	0.046	0.043	0.044	0.058	0.058	0.085	0.061	0.096	0.1	0.09	0.12
⑥	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	0.031	-	-	-	-	-	-	-	0.037	-	-

Cs-137 (Bq/cm³)

Place of sampling	Before transfer				After transfer																							
	4/16	4/17	4/18	4/19	4/20	4/21	4/22	4/23	4/24	4/25	4/26	4/27	4/28	4/29	4/30	5/1	5/2	5/3	5/4	5/5	5/6	5/7	5/8	5/9	5/10	5/11	5/12	5/13
①	-	0.11	0.093	0.095	0.095	0.51	-	0.24	0.16	0.13	0.12	0.13	0.23	0.13	0.17	0.078	0.11	0.15	0.092	0.099	0.049	0.025	0.073	0.046	0.11	0.045	0.045	0.17
②	ND	0.042	0.031	0.037	0.072	0.038	0.032	0.022	0.019	0.027	0.023	0.031	0.033	0.022	0.014	ND	0.028	0.021	0.022	ND	0.23	ND	ND	0.008	ND	ND	0.011	0.033
③	-	-	-	ND	0.016	0.043	0.023	ND	0.029	0.014	ND	0.022	0.032	ND	0.021	0.008	0.03	ND	0.01	ND	ND	ND	ND	ND	0.01	0.015	0.03	0.15
④	0.033	-	0.013	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
⑤	0.45	0.32	0.21	0.079	0.08	0.1	0.075	0.082	0.15	0.055	0.049	0.082	0.067	0.068	0.042	0.047	0.093	0.05	0.057	0.041	0.063	0.073	0.095	0.046	0.12	0.1	0.1	0.12
⑥	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	0.035	-	-	-	-	-	-	-	-	-	-

* Hyphen "-" indicates that neither sampling nor measurements were implemented.

* Data on April 19 was treated as one before transfer since it was sampled just two hours after transfer so that small amount of water was transferred to the Process Main Building.

* Sampling at Southwest part of the Process Main Building (④) was conducted once a week upto April 25 since it is located upper side of the groundwater.

* Sampling at Southwest part of the On-site Bunker Building (⑥) was conducted as upper side of the groundwater once a week from April 29 since it turned unable to sample at Southwest of the Process Main Building (④).

<Place of sampling>
 ① Southeast part of Unit 4 Turbine Building
 ② Northeast part of Process Main Building
 ③ Southeast part of Process Main Building
 ④ Southwest part of Process Main Building
 ⑤ South part of Miscellaneous Solid Waste Volume Reduction Treatment Building
 ⑥ Southwest part of On-site Bunker Building

Results of Nuclide Analyses of Sub-drain Water nearby Centralized Radiation Waste Treatment Facility (2/3)

I-131 (Bq/cm³)

Place of sampling	After transfer																												
	5/14	5/15	5/16	5/17	5/18	5/19	5/20	5/21	5/22	5/23	5/24	5/25	5/26	5/27	5/28	5/29	5/30	5/31	6/1	6/2	6/3	6/4	6/5	6/6	6/7	6/8	6/9	6/10	
①	0.21	0.058	0.036	ND	0.014	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.23	0.35	0.077	0.054	0.23	0.034	0.081	0.12	0.022	0.012	0.1	0.007	
②	0.04	0.04	0.033	0.031	0.026	0.023	0.025	0.017	0.02	0.017	0.013	0.013	0.013	0.011	0.012	ND	0.015	0.016	0.017	0.012	0.009	ND	0.006	ND	0.006	ND	0.008	0.005	
③	0.019	ND	0.03	0.011	ND	0.009	0.006	ND	0.005	0.006	ND	ND	ND	ND	0.004	0.006	0.038	0.012	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	
④	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
⑤	0.055	0.054	0.047	0.043	0.046	0.05	0.034	0.03	0.029	0.025	0.033	0.021	0.023	0.015	0.016	0.041	0.021	ND	0.015	0.009	0.008	ND	0.01	ND	ND	0.012	0.011	0.006	
⑥	-	-	0.012	-	-	-	-	-	-	0.009	-	-	-	-	-	-	0.011	-	-	-	-	-	-	ND	-	-	-	-	
⑦	-	-	-	-	-	-	-	-	-	-	-	-	-	0.16	0.14	0.11	0.12	0.14	0.051	0.039	0.046	0.092	0.037	0.042	0.034	0.024	0.041	0.02	0.019
⑧	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.014	0.018	0.012	0.011	0.016	ND	0.014	ND	0.005	ND	ND	ND

Cs-134 (Bq/cm³)

Place of sampling	After transfer																												
	5/14	5/15	5/16	5/17	5/18	5/19	5/20	5/21	5/22	5/23	5/24	5/25	5/26	5/27	5/28	5/29	5/30	5/31	6/1	6/2	6/3	6/4	6/5	6/6	6/7	6/8	6/9	6/10	
①	2.6	0.11	0.08	0.06	0.062	0.081	0.046	0.056	0.067	0.047	0.055	0.021	0.033	0.043	0.059	0.024	0.15	0.18	0.95	0.07	0.16	0.055	0.078	0.099	0.072	0.029	0.13	0.043	
②	0.016	ND	0.011	ND	ND	0.007	0.025	ND	ND	ND	ND	ND	0.014	0.011	ND	0.022	0.028	ND	ND	0.008	0.007	ND	ND	ND	0.009	ND	ND	0.01	
③	0.022	ND	0.1	ND	ND	ND	0.033	ND	0.006	0.006	ND	ND	ND	0.017	0.009	0.01	0.11	0.019	ND	ND	0.007	0.007	ND	ND	ND	ND	ND	ND	
④	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
⑤	0.13	0.12	0.13	0.13	0.15	0.13	0.14	0.11	0.14	0.12	0.13	0.12	0.13	0.12	0.14	0.19	0.13	0.031	0.057	0.064	0.059	0.035	0.061	0.038	0.08	0.12	0.11	0.05	
⑥	-	-	0.014	-	-	-	-	-	-	-	ND	-	-	-	-	-	0.081	-	-	-	-	-	-	ND	-	-	-	-	
⑦	-	-	-	-	-	-	-	-	-	-	-	-	-	0.33	0.41	0.44	0.67	0.9	0.81	0.77	0.74	0.5	0.68	0.81	0.72	0.64	0.64	0.61	0.55
⑧	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.074	0.091	0.056	0.047	0.056	0.041	0.069	0.042	0.031	0.042	0.048	0.048

Cs-137 (Bq/cm³)

Place of sampling	After transfer																												
	5/14	5/15	5/16	5/17	5/18	5/19	5/20	5/21	5/22	5/23	5/24	5/25	5/26	5/27	5/28	5/29	5/30	5/31	6/1	6/2	6/3	6/4	6/5	6/6	6/7	6/8	6/9	6/10	
①	2.9	0.13	0.085	0.078	0.049	0.096	0.06	0.049	0.063	0.051	0.062	0.027	0.045	0.039	0.067	0.028	0.16	0.21	1	0.095	0.17	0.061	0.096	0.12	0.079	0.035	0.13	0.055	
②	0.02	ND	0.009	ND	ND	ND	0.022	0.009	0.02	ND	ND	ND	0.015	0.01	ND	ND	ND	0.025	ND	0.013	0.01	ND	ND	ND	0.007	ND	ND	ND	
③	ND	0.025	0.098	ND	ND	ND	0.033	ND	ND	ND	0.013	ND	ND	0.011	ND	0.015	0.13	ND	ND	0.01	0.007	ND	ND	ND	ND	ND	ND	ND	
④	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
⑤	0.12	0.13	0.12	0.12	0.14	0.13	0.14	0.12	0.13	0.13	0.14	0.12	0.13	0.12	0.16	0.21	0.13	0.031	0.063	0.079	0.069	0.049	0.093	0.057	0.085	0.13	0.13	0.051	
⑥	-	-	0.011	-	-	-	-	-	-	ND	-	-	-	-	-	-	0.075	-	-	-	-	-	-	ND	-	-	-	-	
⑦	-	-	-	-	-	-	-	-	-	-	-	-	-	0.35	0.43	0.46	0.72	0.95	0.84	0.85	0.77	0.51	0.72	0.85	0.78	0.73	0.69	0.67	0.59
⑧	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.075	0.099	0.064	0.066	0.068	0.037	0.068	0.051	0.027	0.049	0.047	0.051

* Hyphen “-” indicates that neither sampling nor measurements were implemented.

* Data on April 19 was treated as the one before transfer since it was sampled just two hours after transfer so that small amount of water was transferred to the Process Main Building.

* Sampling at Southwest part of the Process Main Building (④) was conducted once a week upto April 25 since it is located at upstream of the groundwater.

* Sampling at Southwest part of the On-site Bunker Building (⑥) was conducted as upstream of the groundwater once a week from April 29 since it was unable to sample at Southwest of the Process Main Building (④).

* Additional sampling at ⑦ was conducted since it is located at thd downstream of the groundwater.

* We have been sampling at ⑧ since May 30.

<Place of sampling> ①Southeast part of Unit 4 Turbine Building ②Northeast part of Process Main Building ③Southeast part of Process Main Building ④Southwest part of Process Main Building ⑤South part of Miscellaneous Solid Waste Volume Reduction Treatment Building ⑥Southwest part of On-site Bunker Building ⑦West part of Incineration Workshop Building ⑧North part of Miscellaneous Solid Waste Volume Reduction Treatment Building

Results of Nuclide Analyses of Sub-drain Water nearby Centralized Radiation Waste Treatment Facility (3/3)

I-131 (Bq/cm³)

Place of sampling	After transfer																			
	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19	6/20	6/21	6/22	6/23	6/24	6/25	6/26	6/27	6/28	6/29	6/30
①	0.007	ND	0.0071	0.033	ND	0.016	0.009	ND	0.0093	ND	ND	0.011	ND	ND	0.005	ND	ND	ND	ND	ND
②	ND	ND	0.0048	ND	ND	ND	0.0043	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
③	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
④	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
⑤	ND	ND	0.011	ND	ND	ND	ND	ND	0.0062	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
⑥	-	-	0.0044	-	-	-	-	-	-	ND	-	-	-	-	-	-	ND	-	-	-
⑦	0.034	ND	0.021	ND	ND	0.029	ND	ND	0.014	0.017	0.019	ND	ND	ND	ND	ND	ND	0.017	ND	ND
⑧	0.0044	0.0063	0.0062	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Cs-134 (Bq/cm³)

Place of sampling	After transfer																			
	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19	6/20	6/21	6/22	6/23	6/24	6/25	6/26	6/27	6/28	6/29	6/30
①	0.047	0.024	0.02	0.055	0.029	0.027	0.023	ND	0.022	ND	ND	0.035	0.021	0.022	0.028	ND	ND	ND	0.014	ND
②	ND	ND	0.0097	0.0086	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0082	ND
③	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.039	ND	ND	0.022	ND	ND	ND	ND	ND
④	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
⑤	0.037	0.043	0.13	0.037	0.048	0.03	0.028	0.028	0.079	0.076	0.034	0.024	0.034	0.042	0.057	0.11	0.041	0.083	0.028	0.03
⑥	-	-	0.0095	-	-	-	-	-	-	ND	-	-	-	-	-	-	ND	-	-	-
⑦	0.29	0.59	0.2	0.54	0.37	0.41	0.66	0.69	0.21	0.28	0.42	0.34	0.48	0.53	0.54	0.27	0.36	0.38	0.4	0.32
⑧	0.043	0.068	0.043	0.037	0.048	0.038	0.027	0.024	0.025	0.027	0.065	0.025	0.048	0.036	0.052	0.037	0.03	0.035	ND	0.035

Cs-137 (Bq/cm³)

Place of sampling	After transfer																			
	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19	6/20	6/21	6/22	6/23	6/24	6/25	6/26	6/27	6/28	6/29	6/30
①	0.045	0.022	0.024	0.066	ND	0.043	0.022	ND	0.018	ND	ND	0.054	0.021	0.027	0.029	ND	0.021	ND	0.024	0.023
②	ND	ND	ND	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0075	0.0066	0.02	ND	ND	ND	ND
③	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.047	ND	ND	0.02	ND	ND	0.024	0.02	ND
④	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
⑤	0.04	0.058	0.15	0.046	0.059	0.026	0.033	0.04	0.084	0.085	0.039	0.042	0.041	0.056	0.077	0.11	0.054	0.075	0.054	0.044
⑥	-	-	0.0091	-	-	-	-	-	-	ND	-	-	-	-	-	-	ND	-	-	-
⑦	0.33	0.64	0.24	0.6	0.4	0.45	0.69	0.79	0.24	0.32	0.44	0.34	0.51	0.57	0.61	0.32	0.4	0.41	0.47	0.37
⑧	0.048	0.068	0.053	0.033	0.037	0.039	0.032	0.025	0.025	ND	0.077	0.034	0.061	0.047	0.053	0.032	0.034	0.027	0.035	0.039

* Hyphen “-” indicates that neither sampling nor measurements were implemented.

* Data on April 19 was treated as the one before transfer since it was sampled just two hours after transfer so that small amount of water was transferred to the Process Main Building.

* Sampling at Southwest part of the Process Main Building (④) was conducted once a week upto April 25 since it is located at upstream of the groundwater.

* Sampling at Southwest part of the On-site Bunker Building (⑥) was conducted as upstream of the groundwater once a week from April 29 since it was unable to sample at Southwest of the Process Main Building (④).

* ND indicates here that the result was below the detection limits of the radioactivity concentration of these analyses (I-131: approx. 0.01Bq/cm³, Cs-134: approx. 0.02Bq/cm³, and Cs-137: approx. 0.02Bq/cm³) (June 30). The limits differ by the shape of the detector / conditions of samples, so may be detected below these figures.

* Additional sampling at ⑦ was conducted since it is located at thd downstream of the groundwater.

* We have been sampling at ⑧ since May 30.

<Place of sampling>
① Southeast part of Unit 4 Turbine Building
② Northeast part of Process Main Building
③ Southeast part of Process Main Building
④ Southwest part of Process Main Building
⑤ South part of Miscellaneous Solid Waste Volume Reduction Treatment Building
⑥ Southwest part of On-site Bunker Building
⑦ West part of Incineration Workshop Building
⑧ North part of Miscellaneous Solid Waste Volume Reduction Treatment Building