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

# $I-131(Bq/cm^3)$

Place of		Before	transfer													After t	ransfer											
sampling	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
	-	0.83	0.54	0.32	0.15	2.1	-	0.21	0.18	0.09	0.07	0.05	0.06	0.03	0.03	0.008	0.01	0.02	0.02	0.01	0.02	ND	ND	ND	0.01	ND	ND	0.16
	0.13	0.11	0.11	0.09	0.11	0.11	0.11	0.19	0.16	0.21	0.19	0.18	0.16	0.16	0.16	0.12	0.1	0.09	0.1	0.09	0.11	0.08	0.08	0.07	0.06	0.05	0.05	0.04
	-	-	-	0.04	0.05	0.06	0.06	0.05	0.04	0.03	0.03	0.02	0.03	0.02	0.02	0.012	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.02
	0.09	-	0.12	-	-	-	-	-	-	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.5	0.35	0.42	0.34	0.33	0.15	0.07	0.15	0.78	0.23	0.13	0.12	0.19	0.08	0.06	0.051	0.05	0.02	0.02	0.02	0.03	0.02	0.05	0.02	0.05	0.04	0.03	0.05
	-	-	-	-	-	-	-	-	-	-	-	-	-	0.06	-	-	0.06	-	-	-	-	-	-	0.03	-	-	-	_

# $Cs-134(Bq/cm^3)$

Place of		Before	transfer													After to	ransfer											
sampling	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
		0.08	0.08	0.1	0.1	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	0.09	0.06	0.04	0.06	0.05	0.11	0.03	0.04	0.15
	ND	0.05	0.03	0.05	0.07	0.02	0.03	ND	0.03	0.03	0.02	0.02	0.05	0.03	0.01	ND	0.02	ND	ND	ND	0.21	ND	ND	ND	ND	0.02	0.01	0.03
	-	-	-	0.01	0.01	0.05	ND	0.02	0.03	ND	ND	ND	0.04	ND	0.02	0.009	0.03	ND	0.01	ND	ND	ND	0.01	ND	ND	0.01	ND	0.15
	0.04	-	0.02	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.45	0.3	0.19	0.07	0.09	0.1	0.07	0.08	0.15	0.05	0.05	0.07	0.07	0.05	0.06	0.062	0.08	0.05	0.04	0.04	0.06	0.06	0.09	0.06	0.1	0.1	0.09	0.12
	-	-	-	-	-	-	-	-	-	-	=	-	-	ND	-	-	0.03	-	-	-	-	-	-	0.04	-	-	-	-

## $Cs-137(Bq/cm^3)$

Place of		Before	transfer													After t	ransfer											
sampling	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
	-	0.11	0.09	0.1	0.1	0.51	-	0.24	0.16	0.13	0.12	0.13	0.23	0.13	0.17	0.078	0.11	0.15	0.09	0.1	0.05	0.03	0.07	0.05	0.11	0.05	0.05	0.17
	ND	0.04	0.03	0.04	0.07	0.04	0.03	0.02	0.02	0.03	0.02	0.03	0.03	0.02	0.01	ND	0.03	0.02	0.02	ND	0.23	ND	ND	0.01	ND	ND	0.01	0.03
	-	-	-	ND	0.02	0.04	0.02	ND	0.03	0.01	ND	0.02	0.03	ND	0.02	0.008	0.03	ND	0.01	ND	ND	ND	ND	ND	0.01	0.02	0.03	0.15
	0.03	-	0.01	-	-	-	-	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
	0.45	0.32	0.21	0.08	0.08	0.1	0.08	0.08	0.15	0.06	0.05	0.08	0.07	0.07	0.04	0.047	0.09	0.05	0.06	0.04	0.06	0.07	0.1	0.05	0.12	0.1	0.1	0.12
	-	-	-	-	-	-	-	-	-	-	-	-	-	ND	-	-	0.04	-	-	-	-	-	-	0.02	-	-	-	-

- \* 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 amout of water was transferred to the Process Main Building.
- \* Sampling at Southwest part of the Process Main Building ( ) 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 ( ) 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 ( ).

## <Place of sampling>

Southeast part of Unit 4 Turbine Building

Northeast part of Process Main Building

Southeast part of Process Main Building

Southwest part of Process Main Building

South part of Miscellaneous Solid Waste Volume Reduction Treatment Building

Southwest part of On-site Bunker Building

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

## $I-131(Bq/cm^3)$

Place of														After t	ransfer													
sampling	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
	0.21	0.06	0.04	ND	0.01	0.01	ND	ND	ND	0.23	0.35	0.08	0.05	0.23	0.03	0.08	0.12	0.02	0.01	0.1	0.01							
	0.04	0.04	0.03	0.03	0.03	0.02	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	ND	0.02	0.02	0.02	0.01	0.01	ND	0.01	ND	0.01	ND	0.01	0.01
	0.02	ND	0.03	0.01	ND	0.01	0.01	ND	0.01	0.01	ND	ND	ND	ND	0	0.006	0.04	0.01	ND	0.01	ND							
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0.06	0.05	0.05	0.04	0.05	0.05	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.041	0.02	ND	0.02	0.01	0.01	ND	0.01	ND	ND	0.01	0.01	0.01
	-	-	0.01	-	-	-	-	-	-	0.01	-	-	-	-	-	-	0.01	-	-	-	-	-	-	ND	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	0.16	0.14	0.11	0.12	0.14	0.05	0.04	0.05	0.09	0.04	0.04	0.03	0.02	0.04	0.02	0.02
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	0.02	0.01	0.01	0.02	ND	0.01	ND	0.01	ND	ND	ND

## $Cs-134(Bq/cm^3)$

Place of														After t	ransfer													
sampling	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
	2.6	0.11	0.08	0.06	0.06	0.08	0.05	0.06	0.07	0.05	0.06	0.02	0.03	0.04	0.06	0.024	0.15	0.18	0.95	0.07	0.16	0.06	0.08	0.1	0.07	0.03	0.13	0.04
	0.02	ND	0.01	ND	ND	0.01	0.03	ND	ND	ND	ND	ND	0.01	0.01	ND	0.022	0.03	ND	ND	0.01	0.01	ND	ND	ND	0.01	ND	ND	0.01
	0.02	ND	0.1	ND	ND	ND	0.03	ND	0.01	0.01	ND	ND	ND	0.02	0.01	0.01	0.11	0.02	ND	ND	0.01	0.01	ND	ND	ND	ND	ND	ND
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	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	0.03	0.06	0.06	0.06	0.04	0.06	0.04	0.08	0.12	0.11	0.05
	-	-	0.01	-	-	-	-	-	-	ND	-	-	-	-	-	-	0.08	-	-	-	-	-	-	ND	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	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
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.07	0.09	0.06	0.05	0.06	0.04	0.07	0.04	0.03	0.04	0.05	0.05

#### $Cs-137(Bq/cm^3)$

Place of														After t	ransfer													
sampling	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
	2.9	0.13	0.09	0.08	0.05	0.1	0.06	0.05	0.06	0.05	0.06	0.03	0.05	0.04	0.07	0.028	0.16	0.21	1	0.1	0.17	0.06	0.1	0.12	0.08	0.04	0.13	0.06
	0.02	ND	0.01	ND	ND	ND	0.02	0.01	0.02	ND	ND	ND	0.02	0.01	ND	ND	ND	0.03	ND	0.01	0.01	ND	ND	ND	0.01	ND	ND	ND
	ND	0.03	0.1	ND	ND	ND	0.03	ND	ND	ND	0.01	ND	ND	0.01	ND	0.015	0.13	ND	ND	0.01	0.01	ND						
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	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	0.03	0.06	0.08	0.07	0.05	0.09	0.06	0.09	0.13	0.13	0.05
	-	-	0.01	-	-	-	-	-	-	ND	-	-	-	-	-	-	0.08	-	-	-	-	-	-	ND	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	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
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.08	0.1	0.06	0.07	0.07	0.04	0.07	0.05	0.03	0.05	0.05	0.05

- \* 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 amout of water was transferred to the Process Main Building.
- \* Sampling at Southwest part of the Process Main Building ( ) 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 ( ) 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 ( ).
- \* Additional sampling at was conducted since it is located at thd downstream of the groundwater.
- \* We have been sampling at since May 30.

#### <Place of sampling>

Southeast part of Unit 4 Turbine Building

Northeast part of Process Main Building

Southeast part of Process Main Building

Southwest part of Process Main Building

South part of Miscellaneous Solid Waste Volume Reduction Treatment Building

Southwest part of On-site Bunker Building

West part of Incineration Workshop Building

North 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)

#### $I-131(Bq/cm^3)$

Place of											After t	ransfer							
sampling	6/11	6/12	6/13	6/14	6/15	6/16	6/17												
	0.007	ND	0.007	0.033	ND	0.016	0.009												
	ND	ND	0.005	ND	ND	ND	0.004												
	ND	ND	ND	ND	ND	ND	ND												
	-	-	-	-	-	-	-												
	ND	ND	0.011	ND	ND	ND	ND												
	-	-	0.004	-	-	-	-												
	0.034	ND	0.021	ND	ND	0.029	ND												
	0.004	0.006	0.006	ND	ND	ND	ND												

#### $Cs-134(Bq/cm^3)$

Place of											After t	ransfer							
sampling	6/11	6/12	6/13	6/14	6/15	6/16	6/17												
	0.047	0.024	0.02	0.055	0.029	0.027	0.023												
	ND	ND	0.01	0.009	ND	ND	ND												
	ND																		
	-	-	-	-	-	-	-												
	0.037	0.043	0.13	0.037	0.048	0.03	0.028												
	-	-	0.01	-	-	-	-												
	0.29	0.59	0.2	0.54	0.37	0.41	0.66												
	0.043	0.068	0.043	0.037	0.048	0.038	0.027									 			

#### $Cs-137(Bq/cm^3)$

Place of											After t	ransfer							
sampling	6/11	6/12	6/13	6/14	6/15	6/16	6/17												
	0.045	0.022	0.024	0.066	ND	0.043	0.022												
	ND	ND	ND	0.011	ND	ND	ND												
	ND																		
	-	-	-	-	-	-	-												
	0.04	0.058	0.15	0.046	0.059	0.026	0.033												
	-	-	0.009	-	-	-	-												
	0.33	0.64	0.24	0.6	0.4	0.45	0.69												
	0.048	0.068	0.053	0.033	0.037	0.039	0.032												

- \* 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 amout of water was transferred to the Process Main Building.
- \* Sampling at Southwest part of the Process Main Building ( ) 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 ( ) 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 ( ).
- \* ND indicates here that the result was below the detection limits of the radioactivity concentration of these analyses (I-131: approx. 0.02Bq/cm3, Cs-134: approx. 0.02Bq/cm3, and Cs-137: approx. 0.02Bq/cm3) (June 12). The limits differ by the shape of th
- \* Additional sampling at was conducted since it is located at thd downstream of the groundwater.
- \* We have been sampling at since May 30.

### <Place of sampling>

Southeast part of Unit 4 Turbine Building

Northeast part of Process Main Building

Southeast part of Process Main Building

Southwest part of Process Main Building

South part of Miscellaneous Solid Waste Volume Reduction Treatment Building

Southwest part of On-site Bunker Building

West part of Incineration Workshop Building

North part of Miscellaneous Solid Waste Volume Reduction Treatment Building