

Reference

Nuclide Analysis Results of Marine Soil - Inside the Port Entrance of Fukushima Daiichi Nuclear Power Plant

Place No.	Place of Sampling	Date of Sampling	Dry Soil Rate (%)	Radioactivity Density (Bq/kg·Dry Soil)		
				I-131 [Approx. 8days]	Cs-134 [Approx. 2years]	Cs-137 [Approx. 30 years]
- 1	North side, in front of Shallow Draft Quay	2012/7/23 10:10 AM	48.9	ND	19,000	29,000
- 2			69.3	ND	ND	ND
- 3			82.7	ND	ND	ND
- 1	South side, in front of Shallow Draft Quay	2012/7/23 10:39 AM	65.2	ND	29,000	44,000
- 2			73.4	ND	7,500	12,000
- 3			74.1	ND	24,000	39,000
- 1	Offshore of Unit 1 Water Intake Canal	2012/7/23 10:56 AM	44.7	ND	360,000	540,000
- 2			77.6	ND	80	140
- 3			76.9	ND	77	110
- 1	Offshore of Unit 2 Water Intake Canal	2012/7/23 11:08 AM	75.3	ND	5,300	8,100
- 2			81.0	ND	120	200
- 3			77.9	ND	37	ND
	Around the entrance of South - North Seawall	2012/7/23 11:37 AM	76.2	ND	1,300	2,100
- 1	Offshore of Unit 3 Water Intake Canal	2012/7/23 11:20 AM	42.6	ND	70,000	110,000
- 2			69.6	ND	73,000	110,000
- 3			72.7	ND	130,000	190,000

* Data of other nuclides is under evaluation.

* "ND" indicates that the measurement result is below the detection limit.

I-131: Approx. 1,500Bq/kg·Dry Soil, Cs-134: Approx.42Bq/kg·Dry Soil, Cs-137: Approx.52Bq/kg·Dry Soil)

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected

* The half-life of each nuclide is provided in parentheses.

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(Data summarized on August 30)

Place of Sampling	North side, in front of Shallow Draft Quay		South side, in front of Shallow Draft Quay		Offshore of Unit 1 Water Intake Canal		Offshore of Unit 2 Water Intake Canal		Around the entrance of South - North Seawall		Offshore of Unit 3 Water Intake Canal		Density Limit Specified by the Reactor Regulation (Bq/L) (The density limit in the water outside the surrounding monitored areas is provided in section 6 of Appendix 2.)
	Time of Sampling		Time of Sampling		Time of Sampling		Time of Sampling		Time of Sampling		Time of Sampling		
Detected Nuclides (Half-life)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	Density of Sample (Bq/L)	Scaling Factor (/)	
I-131 (Approx. 8 days)	ND	-	ND	-	ND	-	ND	-	ND	-	ND	-	40
Cs-134 (Approx. 2 years)	6.1	0.10	5.6	0.09	4.6	0.08	5.5	0.09	3.2	0.05	1.9	0.03	60
Cs-137 (Approx. 30 years)	7.8	0.09	7.9	0.09	10	0.11	9.9	0.11	6.1	0.07	4.3	0.05	90

* The density specified by the Reactor Regulation is converted from Bq/cm³ to Bq/L.

* Data of other nuclides is under evaluation.

* In the case of more than 2 nuclides, the sum of scaling factors to density limits is compared to 1.

* "ND" indicates that the measurement result is below the detection limit.

I-131: Approx. 1Bq/L

As the detection limit may vary depending on the detectors and sample properties, there are cases where nuclides below the detection limit are detected.

Nuclide Analysis Results of Marine Soil

- Inside the Port Entrance of Fukushima Daiichi Nuclear Power Plant - (as of July 23, 2012)

