

# F1 Issues

As of 21 May, 2014  
Nuclear Regulation Authority (NRA), Japan

TEPCO reported the Nuclear Regulation Authority (NRA) that it started discharging 561 tons of groundwater at Fukushima Daiichi Nuclear Power Station (NPS) to the ocean at UTC 01:25 (Japan time 10:25) and completed it at UTC 03:42 (Japan time 12:42) on 21 May by means of the groundwater bypass system.

The following URL of TEPCO leads to the information on groundwater discharge:  
[http://www.tepco.co.jp/en/press/corp-com/release/2014/1236566\\_5892.html](http://www.tepco.co.jp/en/press/corp-com/release/2014/1236566_5892.html)

## Current Information on Radioactivity in Seawater

The sampling points T-1 and T-2-1 near Fukushima Daiichi NPS are sentinels to assess effects on the environment by incidents including a leakage of contaminated water.

All radionuclides (i.e., Cs-134, Cs-137, total Beta and H-3) remained low and stable from 12 to 19 May at the sampling points T-1 and T-2-1 as shown in the following tables.

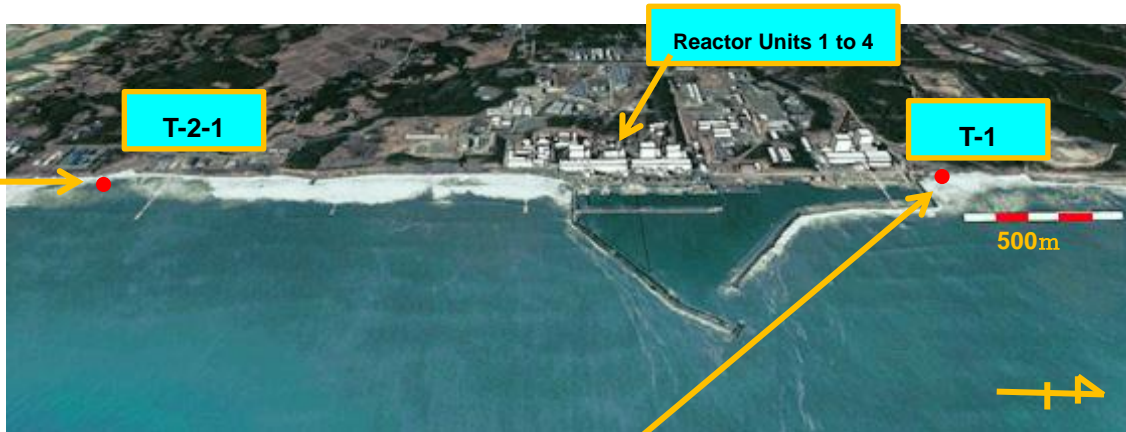
It is noteworthy to show H-3 level (50 samples in total respectively) at the sampling points T-1 and T-2-1 from 13 May 2013 to 12 May 2014 in the following table:

Sampling points	H-3 level (Bq/L)	
T-1	5.0±2.1 (n=18) *	ND (n=32)
T-2-1	1.9, 1.5, 4.3 (n=3)	ND (n=47)

\* ave.±SD (Bq/L)

n: number of samples measured.

The following URL of the NRA website leads to details of monitoring results:  
[http://radioactivity.nsr.go.jp/en/contents/9000/8446/24/Sea\\_Area\\_Monitoring\\_20140520.pdf](http://radioactivity.nsr.go.jp/en/contents/9000/8446/24/Sea_Area_Monitoring_20140520.pdf)



**1.1km northern point (T-1) from the outlet for Reactor Units 1 to 4**

Sampling Date in 2014	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Total Beta (Bq/L)	H-3 (Bq/L)
12 May	ND(0.77)	0.97	11	8.7
13 May	ND(0.97)	ND(0.78)	–	–
14 May	ND(0.76)	ND(0.58)	–	–
15 May	ND(0.85)	0.73	–	–
16 May	ND(0.76)	ND(0.58)	–	–
17 May	ND(0.63)	ND(0.64)	–	–
18 May	ND(0.81)	ND(0.87)	–	–
19 May	ND(0.78)	ND(0.74)	12	In progress

**1.3km southern point (T-2-1) from the outlet for Reactor Units 1 to 4**

Sampling Date in 2014	Cs-134 (Bq/L)	Cs-137 (Bq/L)	Total Beta (Bq/L)	H-3 (Bq/L)
12 May	ND(0.53)	ND(0.69)	13	4.3
13 May	ND(0.79)	ND(0.64)	12	–
14 May	ND(0.69)	ND(0.62)	14	–
15 May	ND(0.82)	ND(0.79)	13	–
16 May	ND(0.85)	ND(0.57)	8.5	–
17 May	ND(0.59)	ND(0.63)	20	–
18 May	ND(0.59)	ND(0.76)	20	–
19 May	ND(0.71)	0.78	9.5	In progress

**ND: Under the limit of detection**