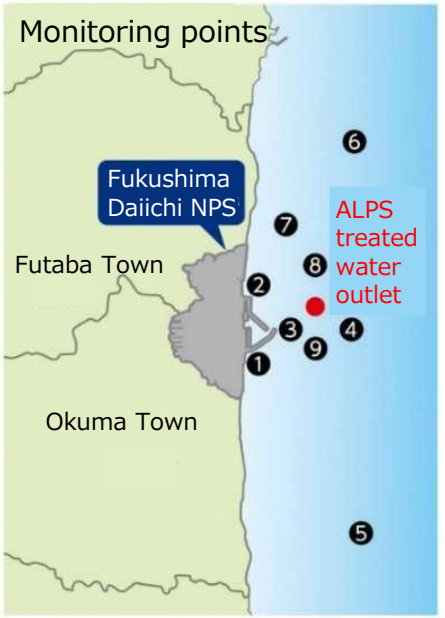
Results of Sea Area Monitoring Associated with ALPS Treated Water Conducted by Fukushima Prefectural Government

IAEA Review of Safety Related Aspects of Handling ALPS-Treated Water at TEPCO's Fukushima Daiichi Nuclear Power Station
May 26th in 2025

Nuclear Emergency Preparedness and Monitoring Division,
Crisis Management Department,
Fukushima Prefectural Government

- **Based on the agreement with TEPCO, Fukushima Prefectural Government (FP) has been conducting the sea area monitoring around the Fukushima Daiichi Nuclear Power Station since 1973.**
- **In FY2022, with the Government of Japan and TEPCO having started the sea area monitoring associated with ALPS treated water, FP has also strengthened its monitoring efforts. Some of these efforts include increasing the number of monitoring points and conducting the electrolytic enrichment for the tritium analysis with the target detection limit of 0.1 Bq/L.**



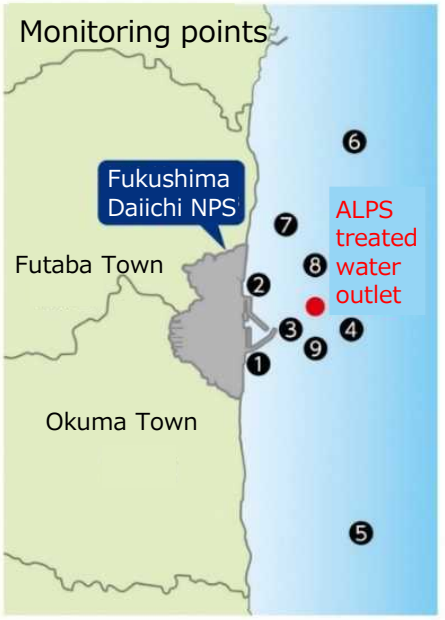
<Main Analytical Results>

Unit: Bq/L

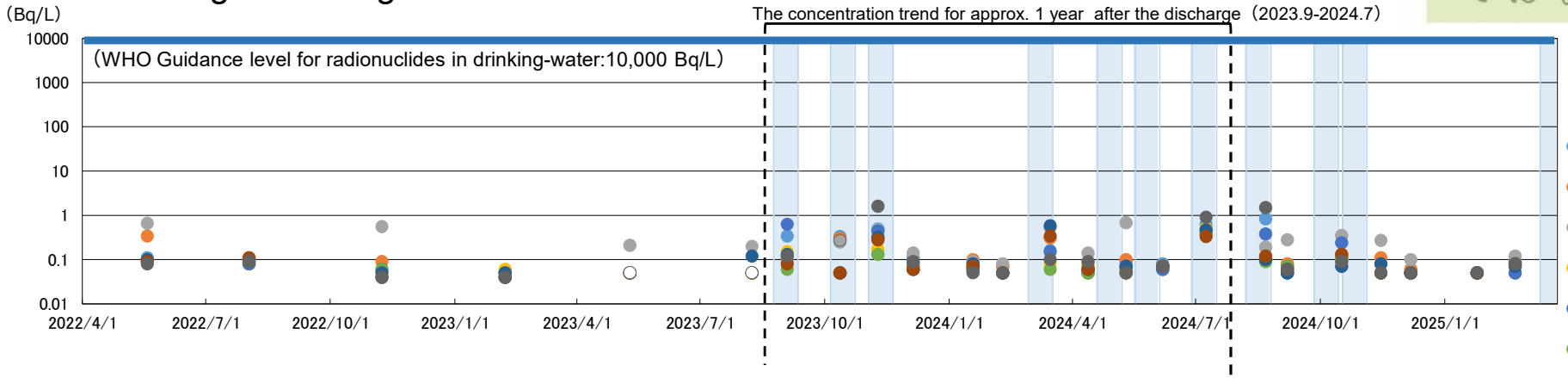
Nuclides	Before FDNPP Accident	After FDNPP Accident		
		Before the Discharge of ALPS Treated Water	After the Discharge of ALPS Treated Water	
	(2001—2010)	(2011—Aug. 2023)	(Sep. 2023—Jul. 2024)	(Aug. 2024—)
H-3	ND—2.9	ND—6.2	ND—1.6	ND—1.5
Cs-137	ND—0.003	ND—5.0	ND—0.12	ND—0.12

All results of rapid analysis of H-3 for prompt reporting are below the detection limit since the discharge of ALPS treated water.

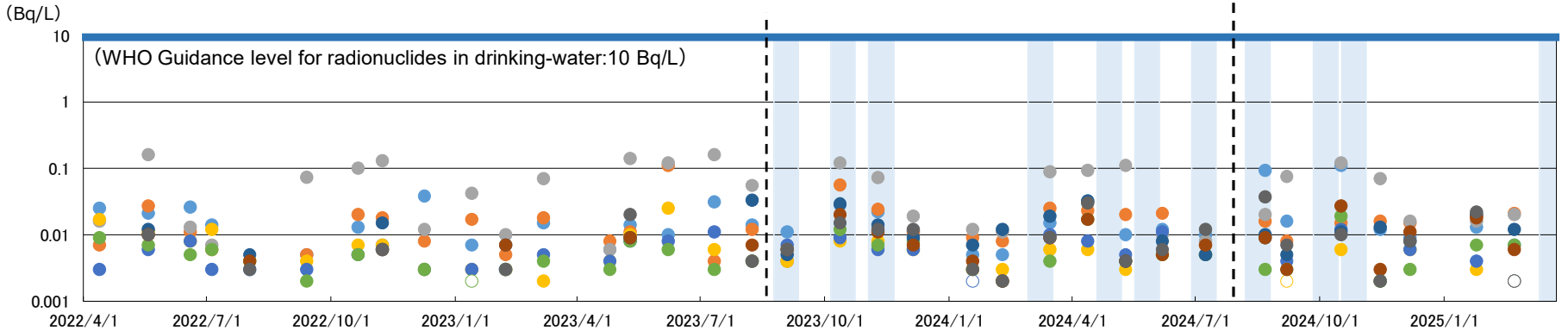
Since the discharge of ALPS treated water, the concentrations of radioactive substances such as H-3 and Cs-137 have remained below the national regulatory standards and WHO guidelines for drinking water, confirming that no impact has been imposed on humans or the environment.



＜ Chronological Change of H-3 Concentration ＞



＜ Chronological Change of Cs-137 Concentration ＞



<Legend>
- ①Near FDNPS South Water Outlet
- ②Near FDNPS North Water Outlet
- ③Near FDNPS Water Intake
- ④2km off FDNPS
- ⑤2km off Kuma-gawa Coast, Okuma Town
- ⑥2km off Maeda-gawa Coast, Futaba Town
- ⑦2km North, 0.5km West of ALPS Discharge Outlet
- ⑧1km North of ALPS Discharge Outlet
- ⑨1km South of ALPS Discharge Outlet

※Values below the detection limit shown in white, with the detection limit value indicated for reference.

※ Period of the discharge