

# Monitoring Results of Air Dose Rates in and around J-Village

December 12, 2019

## (Summary)

Measures against hot spots found in the vicinity of a town-owned parking lot nearby J-village and results of monitoring survey of air dose rates in the whole site of J-village are follows:

1. Measures against hot spots found in the vicinity of a town-owned parking lot nearby J-village
  - MOE confirmed a hot spot which showed higher air dose rate on the fringe of a parking lot owned by Naraha Town nearby J-village on November 29. (1m above the ground: 1.79  $\mu\text{Sv/h.}$ )
  - Radiation reduction measures were implemented in consultation with relevant organizations and local municipalities. MOE confirmed that, as the result of these measures, the air dose rate decreased on this spot. (1m above the ground: 0.39  $\mu\text{Sv/h.}$ )
  - Due to additional monitoring conducted around the parking lot in case, another hot spot was found on the fringe of the parking lot. (1m above the ground: 1.50  $\mu\text{Sv/h.}$ ) The radiation reduction measures were implemented on December 9. MOE confirmed that, as the result of these measures, the air dose rate decreased. (1m above the ground: 0.28  $\mu\text{Sv/h.}$ )
2. The results of monitoring survey of air dose rates in and around J-village
  - As for monitoring surveys in the whole site of J-village and its surroundings, on November 19 and 26, monitoring was conducted in the football pitch of J-village, its stadium and related facilities. From December 4 to 6, monitoring survey was also conducted in and around J-village in cooperation with relevant organizations.
  - The monitoring results of air dose rates in the football pitch, the stadium and related facilities were 0.04-0.17  $\mu\text{Sv/h.}$  (0.07  $\mu\text{Sv/h}$  in average)
  - The monitoring results of air dose rates in and around J-village were 0.04-0.50  $\mu\text{Sv/h.}$  (0.13 $\mu\text{Sv/h}$  in average)
3. Future Response

Necessary measures will be taken and information will be shared with the public under the cooperation of related organizations if an increase of the air dose rate is confirmed at areas where decontamination work is conducted.

1. Measures against hot spots found in the vicinity of a town-owned parking lot nearby J-village
  - On November 18, MOE was informed by the Greenpeace Japan, an international environmental NGO, that it was confirmed that there were hot spots showing air dose rates higher than their surrounding areas around National Training Center J-village (Hereinafter J-village).
  - Subsequently, MOE conducted a simple monitoring and found one hot spot outside a parking lot owned by Naraha Town nearby J-village where people usually do not enter.
  - After further detailed monitoring and consultation among related organization and municipalities for implementing necessary measures, on December 3, Tokyo Electric Power Company (TEPCO), which decontaminated the parking lot before, implemented radiation reduction measures. As the result, it was confirmed that the air dose rate on the spot decreased.

Table 1: Monitoring results of the air dose rates on one hot spot outside the parking lot owned by Naraha Town

Height from the ground	Before the radiation reduction measures (November 29)	After the radiation reduction measures (December 3)
1m	1.79 $\mu\text{Sv/h}$	0.39 $\mu\text{Sv/h}$
1cm	70.2 $\mu\text{Sv/h}$	0.44 $\mu\text{Sv/h}$

- As the result of additional monitoring conducted around the parking lot, on December 5, relatively high air dose rate was confirmed at a spot outside the parking lot where people usually do not enter.
- On December 9, TEPCO, which decontaminated the parking lot before, implemented radiation reduction measures. As the result, it was confirmed that the air dose rate on the spot decreased.

Table 2: Monitoring results of the air dose rates on the other hot spot outside the parking lot owned by Naraha Town

Height from the ground	Before the radiation reduction measures (December 5)	After the radiation reduction measures (December 9)
1m	1.50 $\mu\text{Sv/h}$	0.28 $\mu\text{Sv/h}$
1cm	10.5 $\mu\text{Sv/h}$	0.28 $\mu\text{Sv/h}$

2. Other results of monitoring survey of air dose rates in and around J-village
  - As for the football pitch and the stadium of J-village, TEPCO conducted monitoring of air dose rates on November 19 and 26 based on the request from J-VILLAGE Inc.
  - Furthermore, from December 4 to 6, monitoring of air dose rates was conducted at the periphery of above mentioned facilities and the periphery of roads and facilities around J-village.
  - The monitoring results of air dose rates 1m above from the ground in the football pitch,

the stadium and related facilities in November were 0.04-0.17 $\mu$ Sv/h. (0.07 $\mu$ Sv/h in average)

- The monitoring results of air dose rates 1m above from the ground in and around J-village in December were 0.04-0.50 $\mu$ Sv/h. (The average is 0.13 $\mu$ Sv/h which is as same as the air dose rates of near monitoring posts)

Table 3: Other results of monitoring survey of air dose rates in and around J-village (outline)

	Monitoring results of the air dose rate			(Ref.)air dose rates of monitoring posts in surroundings	
	In the football pitch and the stadium of J-village (November 19 and 26)		Around J-village* <sup>1</sup> (December 4-6)	J-village (Naraha)	Entrance of J-village stadium (Hirono)
	Fixed point monitoring* <sup>2</sup>	Gait monitoring* <sup>3</sup>	Gait monitoring* <sup>3</sup>	※As of 9:50 am December 10, 2019	
Number of monitoring points	72	7,384	8,309		
Air dose rate 1m above from the ground ( $\mu$ Sv/h)	0.05-0.09 (0.07)* <sup>4</sup>	0.04-0.17 (0.07)* <sup>4</sup>	0.04-0.50* <sup>5</sup> (0.129)* <sup>4</sup>	0.118	0.104

\*1 Surroundings of the pitch and stadium of J-village and surroundings of roads and facilities around J-village

\*2 Fixed point monitoring: monitored by NaI scintillation survey meter at the height above 1m from the ground

\*3 Gait monitoring: monitored by gait monitoring system at the height above 1m from the ground

\*4 Average from minimum to maximum value

\*5 Maximum value of 0.50  $\mu$ Sv/h is the air dose rate measured 1m above the ground around the area confirmed as 1.50 $\mu$ Sv/h before TEPCO took the radiation reduction measures.

Note: 3.8  $\mu$ Sv/h: air dose rate reference for lifting evacuation order (less than 20 mSv of annual exposure dose)

Note: Refer to air dose rates in other major cities in the world is as follows:

Source: <https://www.env.go.jp/chemi/rhm/h30kisoshiryo/h30kiso-02-05-07.html>

### 3. Future Response

Necessary measures will be taken and information will be shared with the public under the cooperation of related organizations if an increase of the air dose rate is confirmed at areas where decontamination work is conducted.

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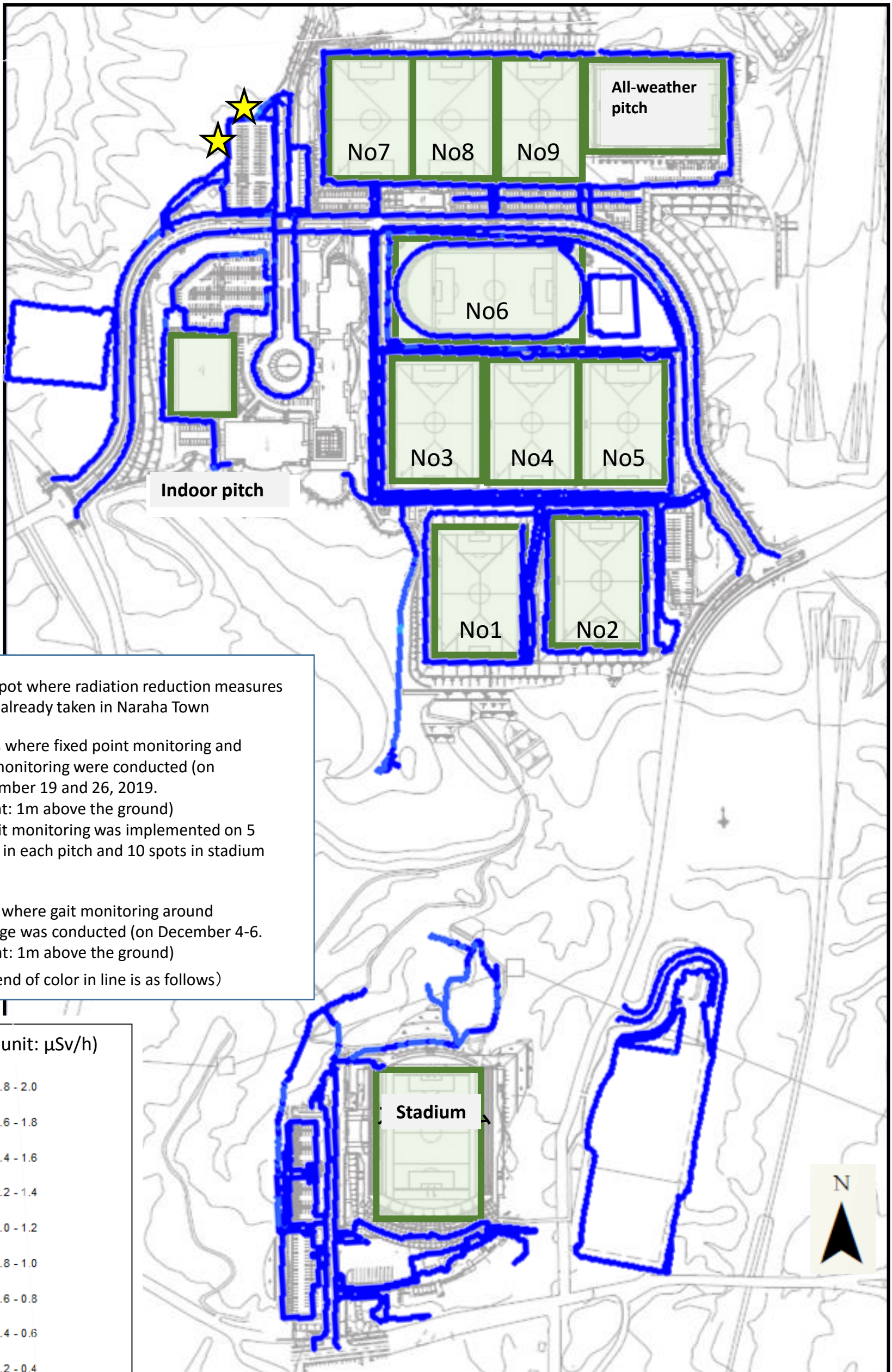
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**Monitoring spots of the air dose rates in and around J village**