

Environmental and Social Impact Assessment for the Regional Solid Waste Management Facility (RSWMF) Thilafushi

## **Noise Level Measurement**

**Prepared by:** Abdul Aleem (EIA P03/2019)

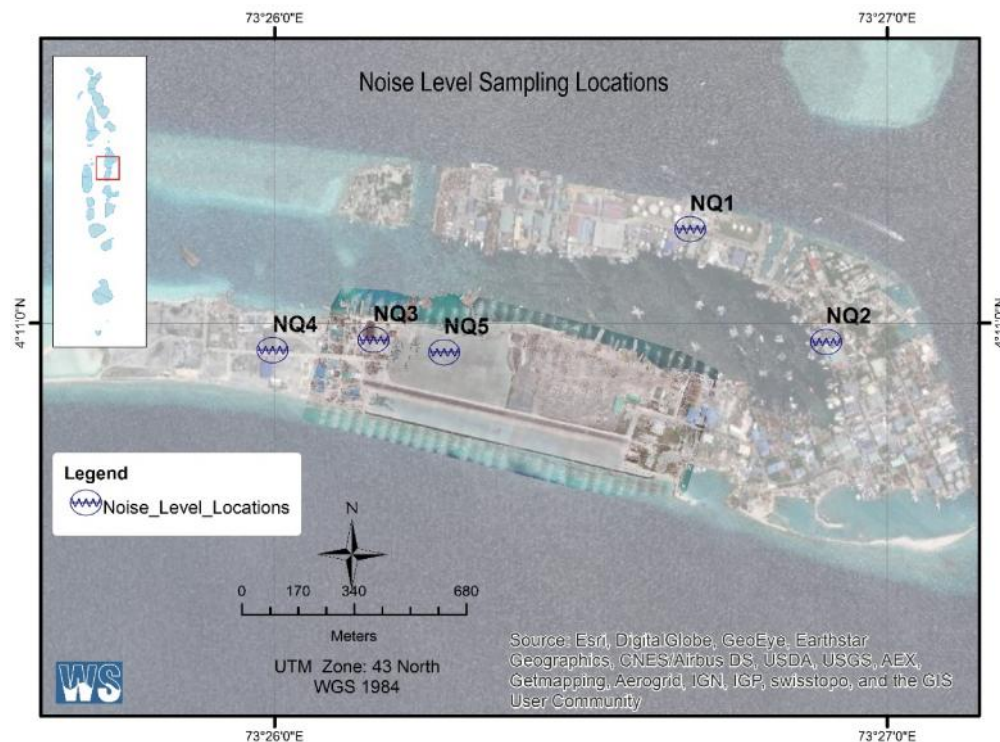


23<sup>rd</sup> September 2019

## Noise Level Measurement

Noise level was measured to establish baseline at five locations: NQ1, NQ2, NQ3, NQ4 and NQ5 by Water Solutions on 25th August 2019 using hand held sound level meter at Thilafushi. Ambient noise levels were measured during the day time from 10:00 am to 12:00 pm and during the night from 10:00 pm to 12:00 pm at 5 locations (see map). The day time was considered as 7:00 a.m. to 10:00 p.m, while the night time was considered as 10:00 p.m. to 7:00am.

Station Name	Station Coordinates	Monitoring rationale
NQ1 (Thilafushi)	4°10'26.4 N 73°28'59.9 E	The station was selected as it represents a major industrial location of the island and is also located close to the harbour. The location lies north of the proposed facility on the opposite side of the lagoon.
NQ2 (Thilafushi)	4°10'56.6 N 73°26'53.3 E	The station was selected as it represents a major industrial location of the island. The location lies east of the proposed facility on the opposite side of the lagoon. The location has various industrial activities in its proximity
NQ3 (Thilafushi)	4°10'58.3 N 73°26'09.6 E	This station was selected as it is located near the boundary of the proposed WTE facility.
NQ4 (Thilafushi)	4°10'57.3 N 73°25'59.4 E	This station was selected as it is located west of proposed WTE facility. The area has less development and less activity during the day time.
NQ5 (Thilafushi)	4°10'57.3 N 73°26'14.4 E	This station was selected as it is located at the proposed WTE facility.



**Figure: Locations where noise was monitored for the baseline assessment.**

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**Table: Summary of Noise Quality Results for Thilafushi**

<b>S. No</b>	<b>Locations</b>	<b>Noise Level dB (A) Day Time</b>	<b>Noise Level dB (A) Night Time</b>
NQ1	Thilafushi	65.1	53.7
NQ2	Thilafushi	64.2	51.8
NQ3	Thilafushi	56.3	50.0
NQ4	Thilafushi	56.0	48.9
NQ5	Thilafushi	54.6	49.0

The ambient noise levels were moderate to high considering the international standards. The higher background noise can be attributed to the roar from the sea, windy conditions and closely packed industrial areas and movement of boats. Thilafushi was quieter during the night as there are no activity on the island.

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## **Noise Level Measurement (Additional Measurements)**

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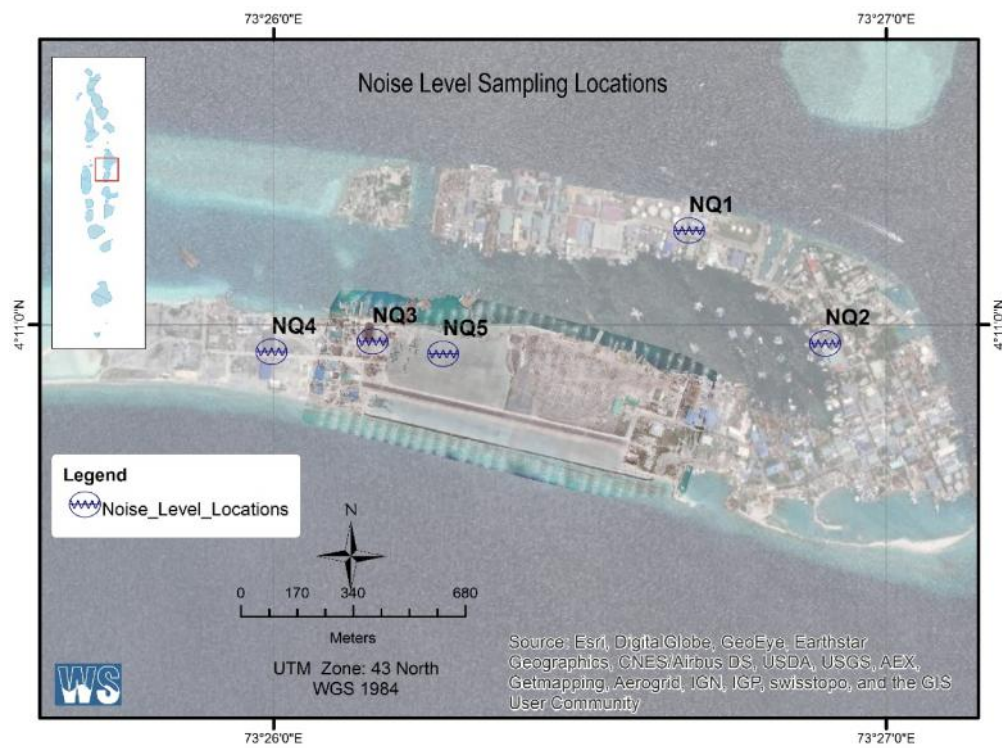


24<sup>th</sup> October 2019

## Noise Level Measurement

Additional Noise level was measured at two locations: NQ3 and NQ4 by Water Solutions on 6<sup>th</sup> and 7<sup>th</sup> October 2019 using hand held sound level meter at Thilafushi. Ambient noise levels were measured every hour for 24 hours at each locations.

Station Name	Station Coordinates	Monitoring rationale
NQ3 (Thilafushi)	4°10'58.3 N 73°26'09.6 E	This station was selected as it is located near the boundary of the proposed WTE facility.
NQ4 (Thilafushi)	4°10'57.3 N 73°25'59.4 E	This station was selected as it is located west of proposed WTE facility. The area has less development and less activity during the day time.



**Figure: Locations where noise was monitored for the baseline assessment.**

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**Table: Noise Measurement Results for Thilafushi**

		Noise Level dB (A)	
Date	Time	NQ3	NQ4
6/10/2019	7:00	50.1	52.4
6/10/2019	8:00	54.4	54.3
6/10/2019	9:00	55.7	56.2
6/10/2019	10:00	56.5	56.8
6/10/2019	11:00	57.1	55.4
6/10/2019	12:00	56.8	57.4
6/10/2019	13:00	57.4	56.4
6/10/2019	14:00	57.3	55.9
6/10/2019	15:00	56.7	55.4
6/10/2019	16:00	56.8	56.1
6/10/2019	17:00	51.3	54.3
6/10/2019	18:00	49.4	49.4
6/10/2019	19:00	50.1	48.9
6/10/2019	20:00	49.6	48.6
6/10/2019	21:00	49.3	48.3
6/10/2019	22:00	50.1	48.5
6/10/2019	23:00	50.3	48.3
7/10/2019	0:00	50.1	48.1
7/10/2019	1:00	50.1	48.1
7/10/2019	2:00	50.3	48.3
7/10/2019	3:00	50.8	47.8
7/10/2019	4:00	50.2	48
7/10/2019	5:00	49.5	49.1
7/10/2019	6:00	49.8	49.3

The ambient noise levels were low considering the international standards. The background noise can be attributed to the roar from the sea, windy conditions areas and movement of boats. Thilafushi was quieter during the night as there are no activity on the island.