

# Environmental Impact Assessment

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Document Stage: Updated  
Project Number: 51077-003  
July 2020

## MLD: Greater Malé Waste-to-Energy Project – Waste to Energy Plant PART F

Prepared by Ministry of Environment of the Republic of Maldives for the Asian Development Bank.

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**WATER QUALITY TEST REPORT**  
 Report No: 500181970

**Customer Information:**  
 Water Solutions Pvt Ltd

Ionuziyaaraiy magu  
 Male' 20063

Report date: 09/04/2019  
 Test Requisition Form No: 900187119  
 Sample(s) Received Date: 03/04/2019  
 Date of Analysis: 03/04/2019 - 04/04/2019

Sample Description	Thilafushi GW1	Thilafushi GW2	Thilafushi GW3	TEST METHOD	UNIT
Sample Type	Ground Water	Ground Water	Ground Water		
Sample No	83203941	83203942	83203943		
Sampled Date	02/04/2019	02/04/2019	02/04/2019		
PARAMETER	ANALYSIS RESULT				
Physical Appearance	Clear	Pale brown with particles	Pale yellow with particles		
Chloride	183	1715	7200	In-house Test method (Adapted from M926 Chloride analyzer Operation Manual)	mg/L
Nitrate *	1.7	6.1	5.0	Method 8171 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L
Phosphate *	0.07	0.23	0.21	Method 8048 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L
Total Coliforms	>2420	291	>2420	Colliert®-18/Quanti-Tray®2000	MPN/100ml

Keys: mg/L : Milligram Per Liter, MPN/100ml : Most Probable Number

Checked by



Aminath Sofa  
 Laboratory Executive

Approved by



Mohamed Eyman  
 Assistant Manager, Quality

**Notes: Sampling Authority:** Sampling was not done by MWSC Laboratory  
 This report shall not be reproduced except in full, without written approval of MWSC  
 This test report is ONLY FOR THE SAMPLES TESTED.  
 - Information provided by the customer  
 \*Parameters accredited by DAC under ISO / IEC 17025:2005

**WATER QUALITY TEST REPORT**  
 Report No: 500181970

**Customer Information:**  
 Water Solutions Pvt Ltd

Ionuziyaaray magu  
 Male' 20063

Report date: 09/04/2019  
 Test Requisition Form No: 900187119  
 Sample(s) Received Date: 03/04/2019  
 Date of Analysis: 03/04/2019 - 04/04/2019

Sample Description	Thilafushi GW4	Thilafushi GW5	Thilafushi GW6	TEST METHOD	UNIT		
Sample Type	Ground Water	Ground Water	Ground Water				
Sample No	83203944	83203945	83203946				
Sampled Date	02/04/2019	02/04/2019	02/04/2019				
PARAMETER	ANALYSIS RESULT						
Physical Appearance	Pale yellow with particles	Olive green with particles	Olive green with particles				
Chloride	470	3125	6325	In-house Test method (Adapted from M925 Chloride analyzer Operation Manual)	mg/L		
Nitrate *	7.5	25.5	34.5	Method 8171 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L		
Phosphate *	<0.05 (LoQ 0.05 mg/L )	0.48	0.57	Method 8048 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L		
Total Coliforms	1986	>2420	10	Coliert8-18/Quantl-Tray82000	MPN/100ml		

Keys: mg/L : Milligram Per Liter, MPN/100ml : Most Probable Number

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 Laboratory Executive

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**Customer Information:**  
 Water Solutions Pvt Ltd

Ionuziyaaraiy magu  
 Male' 20063

Report date: 09/04/2019  
 Test Requisition Form No: 900187119  
 Sample(s) Received Date: 03/04/2019  
 Date of Analysis: 03/04/2019 - 04/04/2019

Sample Description	Thilafushi GW7	Thilafushi GW8	TEST METHOD	UNIT		
Sample Type	Ground Water	Ground Water				
Sample No	83203947	83203948				
Sampled Date	02/04/2019	02/04/2019				
PARAMETER	ANALYSIS RESULT					
Physical Appearance	Yellow with particles	Cloudy and opaque				
Chloride	6125	1005	In-house Test method (Adapted from M826 Chloride analyzer Operation Manual)	mg/L		
Nitrate *	12.2	3.4	Method 8171 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L		
Phosphate *	2.27	0.72	Method 8048 (Adapted from HACH DR5000 Spectrophotometer procedure Manual)	mg/L		
Total Coliforms	>2420	4	Coliert®-18/Quanti-Tray®2000	MPN/100ml		

Keys: mg/L : Milligram Per Liter, MPN/100ml : Most Probable Number

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\*\*\*\*\* END OF REPORT \*\*\*\*\*

# TEST REPORT



**Report No:** (7418)144-0214A(SL)

Jul 14, 2018

Page 1 of 4

**Applicant:** Water Solutions (Pvt) Ltd.

**Address :** Ma Fas Eri, 1<sup>st</sup> Floor,  
Ameenee Magu,  
Male,  
Maldives.

**Attn:** Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

**Sample Received as:** 500ml x 2 No.s of water sample contained in sealed plastic bottles submitted by the client.

**Sample Described by the Client as:** Thilafushi SW1  
Date & time Sampled : 03/07/2018 at 07.30 a.m

**Date of Sample Received:** Jul 06, 2018

**Date of Testing Started:** Jul 06, 2018

**Date of Testing Completed:** Jul 13, 2018

**Date of Report Issued:** Jul 14, 2018

**Photo of the Samples submitted**



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## CPS CONDITIONS OF SERVICE

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**1. Services.** (a) The completion of the Services shall be evidenced by the Company's issuing to Client a written report setting forth the results of the Services based upon the properly accepted request, applicable protocols, written information, and where applicable, the product sample provided by Client to Company ("Report"). Company may delegate/assign the performance of all or a portion of the Services to an affiliate of Company or to an agent or subcontractor. Client shall provide to Company on a timely basis, all documents and information necessary to enable Company to properly perform the Services. Company may, in its sole discretion, dispose of product samples furnished to Company for the Services that were not destroyed in the course of performance of the Services. (b) Client represents and warrants to Company that (i) each product sample is not submitted in violation of a third party's intellectual property rights; (ii) Client will not use and rely upon Company's Report for any product whose properties differ from the sample(s) upon which the Report is based; and (iii) any goods subject to inspection will be completely prepared for the type of inspection booked for the specified date, and (c) Client accepts sole responsibility and liability for the accuracy of documents submitted to government or other regulatory bodies, including certificates of compliance required under the US Consumer Product Safety Improvement Act and EU requirements under REACH regulations. Client's responsibility and liability for accuracy shall apply even where Company has provided assistance to Client in preparation of such documentation.

**2. Report.** (a) The Report shall (i) constitute the sole deliverable for the Services, (ii) relate solely to the facts and circumstances as observed and recorded by Company at the time of performance of the Services within the limits of written information and instructions received from Client; Company shall have no obligation to update the Report after its issuance. Where the Services include testing or inspection: (i) the Report will set forth the findings of Company solely with respect to the product samples identified therein and (ii) the results set forth in the Report are not to be construed as indicative or representative of the quality or characteristics of the lot from which a product sample was taken for Company's performance of Services. (b) The Report is issued solely by Company, is intended for the exclusive use of Client and its affiliates and, except as required by a regulatory body, shall not be published, used for advertising purposes, copied or replicated for distribution or publicly disclosed without Company's prior written consent. Company is not responsible for any third party's interpretation of the Report. (c) Client shall not request a Report for purposes of litigation, nor shall it list Company, its affiliates or employees as an expert in any proceeding without Company's prior written consent. If Client anticipates producing or otherwise using the Report in any legal proceedings, it shall so notify Company prior to submitting the Report in such proceeding.

**3. Representations and Warranties.** (a) Company undertakes due care and ordinary skill in the performance of its Services. (b) Client agrees that Company is neither an insurer nor a guarantor and does not take the place of Client or the third parties that it retains, including designers, manufacturers, agents, buyers, distributors, and transportation or shipping companies; Company disclaims all liability in such capacities. Client understands that, if it seeks to protect itself from claims of loss, damage or injury, it should obtain appropriate insurance. (c) Company does not warrant or guarantee Client's products, and Company's Report does not represent a warranty of merchantability, a warranty of fitness for a particular purpose, or any other warranty or guarantee.

**4. Payment.** Payment in full shall be due 30 days after the date of invoice, failing which Company may revoke any credit extended to Client. Client shall reimburse Company for (i) interest on overdue amounts from the due date until paid at an interest rate of 1.5% per month and (ii) any other costs Company incurs in collecting past due amounts, including court, attorneys and collection agencies' fees.

**5. Intellectual Property.** The names, service marks, trademarks and copyrights of Company and its affiliates (collectively, the "Marks") are and remain the sole property of Company and shall not be used by Client. Client shall not contest the validity of the Marks or take any action that might impair the value or goodwill associated with the Marks or the image or reputation of Company or its affiliates. Client understands that any information or samples submitted to Company is a license for Company to use the same in the performance of Services.

**6. Relationship.** (a) Nothing herein creates a partnership, agency or joint venture between the Parties. (b) The failure to require strict observance or performance of any provision of these Conditions shall not be construed to be a waiver of a Party's right to later require strict observance and performance of the same. If any provision of these Conditions is held to be invalid or unenforceable, such invalidity shall not invalidate the remainder of the Conditions. (c) For a period of two years after the commencement of this Agreement, Client shall not directly or indirectly try to solicit for employment any of Company's employees.

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**8. LIMITATIONS OF LIABILITY.** (A) COMPANY SHALL NOT BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL OR SPECIAL LOSS IN CONNECTION WITH THE REPORT, THE PRODUCT FOR WHICH SERVICES WERE PERFORMED, OR THE SERVICES PROVIDED BY COMPANY HEREUNDER. COMPANY SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE WHATSOEVER RESULTING FROM ANY DELAY IN THE PERFORMANCE OF ITS OBLIGATIONS HEREUNDER OR FROM THE FAILURE OF COMPANY TO PROVIDE ITS SERVICES WITHIN ANY TIME PERIOD FOR COMPLETION ESTIMATED BY COMPANY, REGARDLESS OF THE CAUSE OF THE DELAY OR FAILURE. (B) THE ENTIRE FINANCIAL AND LEGAL LIABILITY OF COMPANY IN RESPECT OF ANY CLAIM FOR LOSS, INDEMNITY, CONTRIBUTION OR DAMAGE OF WHATEVER NATURE OR HOWSOEVER ARISING, SHALL NOT EXCEED AN AMOUNT EQUAL TO FIVE (5) TIMES THE AMOUNT OF FEES PAID TO COMPANY FOR THE SPECIFIC SERVICES WHICH GAVE RISE TO SUCH CLAIM.

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**10. Governing Law.** These Conditions shall be governed by the laws of the country as follows: for Services performed in (i) the Americas: the laws of New York, (ii) Asia Pacific, South Asia, Middle East and Africa: the laws of Hong Kong (except for China where PRC laws govern), and (iii) Europe: the laws of England.

**11. Dispute Resolution.** (a) If Client desires to assert a claim relating to the Services, it must submit the same to Company in writing setting forth with particularity the basis for such claim within 90 days from discovery of the claim and not more than six months after the date of issuance of the Report. Client waives any and all claims without limitation that it does not submit within such time periods. (b) If a dispute arises under this Agreement, the Parties shall first attempt good faith negotiations, failing which, the Parties (i) agree that the courts of the country of governing law shall have exclusive jurisdiction to settle any such dispute related to this Agreement and (ii) irrevocably waive their right to trial by jury in any such action or proceeding.

**12.** These Conditions, the applicable order form and/or quotation and the Report represent the entire understanding of the Parties on the subject matter hereof, and no modification is binding unless in writing. Any of Client's terms and conditions attached to, enclosed with or referred to in any order form, purchase order or other document shall not apply.



# TEST REPORT

Report No:

(7418)144-0214A(SL)

Jul 14, 2018

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## TEST RESULTS

No.	Parameters	Results	LOQ	Unit	Test Method
1	Temperature at Receiving	24.2	-	°C	APHA 20th Edition – 2550B
2	Turbidity	0.3	-	NTU	APHA 2130 B
3	pH at 24°C*	8.4	-	-	FD-MTHD-007:2013 Reference to APHA 4500H+
4	Nitrate (as NO <sub>3</sub> <sup>-</sup> )	0.3	-	mg/l	APHA 4500 -NO <sub>3</sub> - E
5	Oil & Grease*	<2.0	2.0	mg/l	FD-MTHD-032:2013 Reference to APHA 5520B
6	Free Ammonia (as NH <sub>3</sub> )	0.05	-	mg/l	SLS 614 Appendix A: 2013
7	Salinity	36	-	ppt	APHA 2520
<b>Heavy Metals</b>					
8	Arsenic (as As)*	ND	0.001	mg/l	CPSD-AN-00581-MTHD with ICP-MS
9	Cadmium (as Cd)*	ND	0.0001	mg/l	
10	Lead (as Pb)*	ND	0.001	mg/l	
11	Mercury (as Hg)*	ND	0.00005	mg/l	
12	Nickel (as Ni)*	ND	0.001	mg/l	
13	Copper (as Cu)*	ND	0.001	mg/l	
14	Zinc (as Zn)*	ND	0.001	mg/l	
15	Chromium (as Cr)	ND	0.001	mg/l	



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# TEST REPORT

Report No:

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Jul 14, 2018

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**Remark –**

**\*ISO 17025 :2005 ACCREDITED TEST BY SRI LANKA ACCREDITATION BOARD FOR CONFORMITY ASSESSMENT (SLAB)**

**NOTE:**

mg/l: milligrams per liter, ppt: parts per thousand,  
APHA: American Public Health Association  
ND: Not Detected, LOQ: Limit of Quantification,  
NTU: Nephelometric Turbidity Units, °C : Celcius,  
ICP-MS: Inductively Coupled Plasma – Mass Spectroscopy.

**Contact information for this report (Technical and General Inquiries and Feedback)**

<b>GENERAL INQUIRIES:</b>		
IROSHA UDUGAMPALA	TEL: +94 768 229 528	E-MAIL: Irosha.Udugampala@lk.bureauveritas.com
<b>TECHNICAL INQUIRIES:</b>		
INDRAJITH HATHURUSINGHA	TEL: + 94 769 603 814	E-MAIL: Indrajith.hs@lk.bureauveritas.com
<b>FEED BACK:</b>		
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.

AUTHORIZED SIGNATORY

APPROVED BY:

INDRAJITH HATHURUSINGHA  
MANAGER -  
FOOD LABORATORY





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# TEST REPORT

Report No:

(7418)144-0214A(SL)

Jul 14, 2018

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END OF THE REPORT.

**Report No:**

**(7418)144-0214B(SL)**

**Jul 14, 2018**

**Page 1 of 4**

**Applicant:** Water Solutions (Pvt) Ltd.

**Address :** Ma Fas Eri, 1<sup>st</sup> Floor,  
Ameenee Magu,  
Male,  
Maldives.

**Attn:** Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

**Sample Received as:** 500ml x 2 No.s of water sample contained in sealed plastic bottles submitted by the client.

**Sample Described by the Client as:** Thilafushi SW2  
Date & time Sampled : 03/07/2018 at 07.45 a.m

**Date of Sample Received:** Jul 06, 2018

**Date of Testing Started:** Jul 06, 2018

**Date of Testing Completed:** Jul 13, 2018

**Date of Report Issued:** Jul 14, 2018

**Photo of the Submitted Sample**



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# TEST REPORT

Report No:

(7418)144-0214B(SL)

Jul 14, 2018

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## TEST RESULTS

No.	Parameters	Results	LOQ	Unit	Test Method
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3	pH at 24°C*	8.4	-	-	FD-MTHD-007:2013 Reference to APHA 4500H+
4	Nitrate (as NO <sub>3</sub> <sup>-</sup> )	0.4	-	mg/l	APHA 4500 -NO <sub>3</sub> - E
5	Oil & Grease*	<2.0	2.0	mg/l	FD-MTHD-032:2013 Reference to APHA 5520B
6	Free Ammonia (as NH <sub>3</sub> )	<0.02	0.02	mg/l	SLS 614 Appendix A: 2013
7	Salinity	37	-	ppt	APHA 2520
<b>Heavy Metals</b>					
8	Arsenic (as As)*	ND	0.001	mg/l	CPSD-AN-00581-MTHD with ICP-MS
9	Cadmium (as Cd)*	ND	0.0001	mg/l	
10	Lead (as Pb)*	ND	0.001	mg/l	
11	Mercury (as Hg)*	ND	0.00005	mg/l	
12	Nickel (as Ni)*	ND	0.001	mg/l	
13	Copper (as Cu)*	ND	0.001	mg/l	
14	Zinc (as Zn)*	0.003	-	mg/l	
15	Chromium (as Cr)	ND	0.001	mg/l	



# TEST REPORT

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**Remark –**

**\*ISO 17025 :2005 ACCREDITED TEST BY SRI LANKA ACCREDITATION BOARD FOR CONFORMITY ASSESSMENT (SLAB)**

**NOTE:**

mg/l: milligrams per liter, ppt: parts per thousand,  
APHA: American Public Health Association  
ND: Not Detected, LOQ: Limit of Quantification,  
NTU: Nephelometric Turbidity Units, °C : Celcius,  
ICP-MS: Inductively Coupled Plasma – Mass Spectroscopy.


**Contact information for this report (Technical and General Inquiries and Feedback)**

GENERAL INQUIRIES:		
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FEED BACK:		
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.

AUTHORIZED SIGNATORY

APPROVED BY:   
INDRAJITH HATHURUSINGHA  
MANAGER -  
FOOD LABORATORY





# TEST REPORT

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(7418)144-0214B(SL)

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1. **Services.** (a) The completion of the Services shall be evidenced by the Company's issuing to Client a written report setting forth the results of the Services based upon the properly accepted request, applicable protocols, written information, and where applicable, the product sample provided by Client to Company ("Report"). Company may delegate/assign the performance of all or a portion of the Services to an affiliate of Company or to an agent or subcontractor. Client shall provide to Company on a timely basis, all documents and information necessary to enable Company to properly perform the Services. Company may, in its sole discretion, dispose of product samples furnished to Company for the Services that were not destroyed in the course of performance of the Services. (b) Client represents and warrants to Company that (i) each product sample is not submitted in violation of a third party's intellectual property rights, (ii) Client will not use and rely upon Company's Report for any product whose properties differ from the samples upon which the Report is based, and (iii) any goods subject to inspection will be completely prepared for the type of inspection booked for the specified date, and (c) Client accepts sole responsibility and liability for the accuracy of documents submitted to government or other regulatory bodies, including certificates of compliance required under the US Consumer Product Safety Improvement Act and EU requirements under REACH regulations. Client's responsibility and liability for accuracy shall apply even where Company has provided assistance to Client in preparation of such documentation.

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Gen v 1 copyrigt 2015 Bureau Veritas

END OF THE REPORT.

**Report No:**

**(7418)144-0214C(SL)**

**Jul 14, 2018**

**Page 1 of 4**

**Applicant:** Water Solutions (Pvt) Ltd.

**Address :** Ma Fas Eri, 1<sup>st</sup> Floor,  
Ameenee Magu,  
Male,  
Maldives.

**Attn:** Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

**Sample Received as:** 500ml x 2 No.s of water sample contained in sealed plastic bottles submitted by the client.

**Sample Described by the Client as:** Thilafushi SW3  
Date & time Sampled : 03/07/2018 at 08.00 a.m

**Date of Sample Received:** Jul 06, 2018

**Date of Testing Started:** Jul 06, 2018

**Date of Testing Completed:** Jul 13, 2018

**Date of Report Issued:** Jul 14, 2018

**Photo of the Submitted Sample**



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**Bureau Veritas Consumer Products Services Lanka (Pvt) Ltd.**

No. 570, Galle Road, Katubedda, Sri Lanka.

Tel : (9411) 2350111 Fax : (9411) 2622198 / 9

E-mail : bvcp.lanka@lk.bureauveritas.com

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.mil-ocis.com> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 90 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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Report No:

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12	Nickel (as Ni)*	ND	0.001	mg/l	
13	Copper (as Cu)*	ND	0.001	mg/l	
14	Zinc (as Zn)*	0.004	-	mg/l	
15	Chromium (as Cr)	ND	0.001	mg/l	



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Report No:

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**Remark –**

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<b>GENERAL INQUIRIES:</b>		
IROSHA UDUGAMPALA	TEL: +94 768 229 528	E-MAIL: Irosha.Udugampala@lk.bureauveritas.com
<b>TECHNICAL INQUIRIES:</b>		
INDRAJITH HATHURUSINGHA	TEL: + 94 769 603 814	E-MAIL: Indrajith.hs@lk.bureauveritas.com
<b>FEED BACK:</b>		
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.

AUTHORIZED SIGNATORY

APPROVED BY:

  
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END OF THE REPORT.

**Report No:**

**(7418)144-0214D(SL)**

**Jul 14, 2018**

**Page 1 of 4**

**Applicant:** Water Solutions (Pvt) Ltd.

**Address :** Ma Fas Eri, 1<sup>st</sup> Floor,  
Ameenee Magu,  
Male,  
Maldives.

**Attn:** Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

**Sample Received as:** 500ml x 2 No.s of water sample contained in sealed plastic bottles submitted by the client.

**Sample Described by the Client as:** Thilafushi SW4  
Date & time Sampled : 03/07/2018 at 08.15 a.m

**Date of Sample Received:** Jul 06, 2018

**Date of Testing Started:** Jul 06, 2018

**Date of Testing Completed:** Jul 13, 2018

**Date of Report Issued:** Jul 14, 2018

**Photo of the Submitted Sample**



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**Bureau Veritas Consumer Products Services Lanka (Pvt) Ltd.**

No. 570, Galle Road, Katubedda, Sri Lanka.

Tel : (9411) 2350111 Fax : (9411) 2622198 / 9

E-mail : bvcp.lanka@lk.bureauveritas.com

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bv-lanka.com> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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BUREAU  
VERITAS

# TEST REPORT

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## TEST RESULTS

No.	Parameters	Results	LOQ	Unit	Test Method
1	Temperature at Receiving	24.2	-	°C	APHA 20th Edition – 2550B
2	Turbidity	0.2	-	NTU	APHA 2130 B
3	pH at 24°C*	8.4	-	-	FD-MTHD-007:2013 Reference to APHA 4500H+
4	Nitrate (as NO <sub>3</sub> <sup>-</sup> )	0.4	-	mg/l	APHA 4500 -NO <sub>3</sub> - E
5	Oil & Grease*	<2.0	2.0	mg/l	FD-MTHD-032:2013 Reference to APHA 5520B
6	Free Ammonia (as NH <sub>3</sub> )	<0.02	0.02	mg/l	SLS 614 Appendix A: 2013
7	Salinity	37	-	ppt	APHA 2520
<b>Heavy Metals</b>					
8	Arsenic (as As)*	ND	0.001	mg/l	CPSD-AN-00581-MTHD with ICP-MS
9	Cadmium (as Cd)*	ND	0.0001	mg/l	
10	Lead (as Pb)*	ND	0.001	mg/l	
11	Mercury (as Hg)*	ND	0.00005	mg/l	
12	Nickel (as Ni)*	ND	0.001	mg/l	
13	Copper (as Cu)*	ND	0.001	mg/l	
14	Zinc (as Zn)*	ND	0.001	mg/l	
15	Chromium (as Cr)	ND	0.001	mg/l	



**BUREAU  
VERITAS**

# TEST REPORT

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**Remark –**

**\*ISO 17025 :2005 ACCREDITED TEST BY SRI LANKA ACCREDITATION BOARD FOR CONFORMITY ASSESSMENT (SLAB)**

**NOTE:**

mg/l: milligrams per liter, ppt: parts per thousand,  
APIIA: American Public Health Association  
ND: Not Detected, LOQ: Limit of Quantification,  
NTU: Nephelometric Turbidity Units, °C : Celcius,  
ICP-MS: Inductively Coupled Plasma – Mass Spectroscopy.

**Contact information for this report (Technical and General Inquiries and Feedback)**

<b>GENERAL INQUIRIES:</b>		
IROSHA UDUGAMPALA	TEL: +94 768 229 528	E-MAIL: Irosha.Udugampala@lk.bureauveritas.com
<b>TECHNICAL INQUIRIES:</b>		
INDRAJITH HATHURUSINGHA	TEL: + 94 769 603 814	E-MAIL: Indrajith.hs@lk.bureauveritas.com
<b>FEED BACK:</b>		
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.

AUTHORIZED SIGNATORY

APPROVED BY:

  
INDRAJITH HATHURUSINGHA  
MANAGER -  
FOOD LABORATORY



# TEST REPORT

Report No:

(7418)144-0214D(SL)

Jul 14, 2018

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END OF THE REPORT.



**Report No:** (7418)144-0214E(SL)

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Page 1 of 4

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**Address :** Ma Fas Eri, 1<sup>st</sup> Floor,  
Ameenee Magu,  
Male,  
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**Sample Described by the Client as:** Thilafushi SW5  
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**Date of Sample Received:** Jul 06, 2018

**Date of Testing Started:** Jul 06, 2018

**Date of Testing Completed:** Jul 13, 2018

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### Photo of the Submitted Sample



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**BUREAU  
VERITAS**

# TEST REPORT

Report No:

(7418)144-0214E(SL)

Jul 14, 2018

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## TEST RESULTS

No.	Parameters	Results	LOQ	Unit	Test Method
1	Temperature at Receiving	24.2	-	°C	APHA 20th Edition – 2550B
2	Turbidity	0.3	-	NTU	APHA 2130 B
3	pH at 24°C*	8.4	-	-	FD-MTHD-007:2013 Reference to APHA 4500H+
4	Nitrate (as NO <sub>3</sub> <sup>-</sup> )	0.5	-	mg/l	APHA 4500 -NO <sub>3</sub> - E
5	Oil & Grease*	<2.0	2.0	mg/l	FD-MTHD-032:2013 Reference to APHA 5520B
6	Free Ammonia (as NH <sub>3</sub> )	0.05	-	mg/l	SLS 614 Appendix A: 2013
7	Salinity	36	-	ppt	APHA 2520
<b>Heavy Metals</b>					
8	Arsenic (as As)*	ND	0.001	mg/l	CPSD-AN-00581-MTHD with ICP-MS
9	Cadmium (as Cd)*	ND	0.0001	mg/l	
10	Lead (as Pb)*	ND	0.001	mg/l	
11	Mercury (as Hg)*	ND	0.00005	mg/l	
12	Nickel (as Ni)*	ND	0.001	mg/l	
13	Copper (as Cu)*	ND	0.001	mg/l	
14	Zinc (as Zn)*	ND	0.001	mg/l	
15	Chromium (as Cr)	ND	0.001	mg/l	



# TEST REPORT

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(7418)144-0214E(SL)

Jul 14, 2018

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**Remark –**

**\*ISO 17025 :2005 ACCREDITED TEST BY SRI LANKA ACCREDITATION BOARD FOR CONFORMITY ASSESSMENT (SLAB)**

**NOTE:**

mg/l: milligrams per liter, ppt: parts per thousand,  
APHA: American Public Health Association  
ND: Not Detected, LOQ: Limit of Quantification,  
NTU: Nephelometric Turbidity Units, °C : Celcius,  
ICP-MS: Inductively Coupled Plasma – Mass Spectroscopy.


**Contact information for this report (Technical and General Inquiries and Feedback)**

<b>GENERAL INQUIRIES:</b>		
IROSHA UDUGAMPALA	TEL: +94 768 229 528	E-MAIL: Irosha.Udugampala@lk.bureauveritas.com
<b>TECHNICAL INQUIRIES:</b>		
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<b>FEED BACK:</b>		
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.

AUTHORIZED SIGNATORY

APPROVED BY:   
INDRAJITH HATHURUSINGHA  
MANAGER -  
FOOD LABORATORY



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END OF THE REPORT.



**Report No:** (7418)144-0214F(SL)

Jul 14, 2018

Page 1 of 4

**Applicant:** Water Solutions (Pvt) Ltd.

**Address :** Ma Fas Eri, 1<sup>st</sup> Floor,  
Ameence Magu,  
Male,  
Maldives.

**Attn:** Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

**Sample Received as:** 500ml x 2 No.s of water sample contained in sealed plastic bottles submitted by the client.

**Sample Described by the Client as:** Thilafushi SW6  
Date & time Sampled : 03/07/2018 at 07.15 a.m

**Date of Sample Received:** Jul 06, 2018  
**Date of Testing Started:** Jul 06, 2018  
**Date of Testing Completed:** Jul 13, 2018  
**Date of Report Issued:** Jul 14, 2018

**Photo of the Submitted Sample**



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END OF THE REPORT.

**Report No:**

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**Jul 14, 2018**

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**Applicant:** Water Solutions (Pvt) Ltd.

**Address :** Ma Fas Eri, 1<sup>st</sup> Floor,  
Ameenee Magu,  
Male,  
Maldives.

**Attn:** Mr. Aslam Mohamed/ Mr. Abdulla Fazeel

**Sample Received as:** 500ml x 2 No.s of water sample contained in sealed plastic bottles submitted by the client.

**Sample Described by the Client as:** Thilafushi SW7  
Date & time Sampled : 03/07/2018 at 08.45 a.m

**Date of Sample Received:** Jul 06, 2018

**Date of Testing Started:** Jul 06, 2018

**Date of Testing Completed:** Jul 13, 2018

**Date of Report Issued:** Jul 14, 2018

### Photo of the Submitted Sample



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**Bureau Veritas Consumer Products Services Lanka (Pvt) Ltd.**

No. 570, Galle Road, Katubedda, Sri Lanka.

Tel : (9411) 2350111 Fax : (9411) 2622198 / 9

E-mail : bvcp.lanka@lk.bureauveritas.com

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.mil-acts.com> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

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## TEST RESULTS

No.	Parameters	Results	LOQ	Unit	Test Method
1	Temperature at Receiving	24.2	-	°C	APHA 20th Edition -- 2550B
2	Turbidity	0.2	-	NTU	APHA 2130 B
3	pH at 24°C*	8.2	-	-	FD-MTHD-007:2013 Reference to APHA 4500H+
4	Nitrate (as NO <sub>3</sub> <sup>-</sup> )	0.5	-	mg/l	APHA 4500 -NO <sub>3</sub> - E
5	Oil & Grease*	<2.0	2.0	mg/l	FD-MTHD-032:2013 Reference to APHA 5520B
6	Free Ammonia (as NH <sub>3</sub> )	<0.02	0.02	mg/l	SLS 614 Appendix A: 2013
7	Salinity	36	-	ppt	APHA 2520
<b>Heavy Metals</b>					
8	Arsenic (as As)*	ND	0.001	mg/l	CPSD-AN-00581-MTHD with ICP-MS
9	Cadmium (as Cd)*	ND	0.0001	mg/l	
10	Lead (as Pb)*	ND	0.001	mg/l	
11	Mercury (as Hg)*	ND	0.00005	mg/l	
12	Nickel (as Ni)*	ND	0.001	mg/l	
13	Copper (as Cu)*	ND	0.001	mg/l	
14	Zinc (as Zn)*	0.008	-	mg/l	
15	Chromium (as Cr)	ND	0.001	mg/l	





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**Remark –**

**\*ISO 17025 :2005 ACCREDITED TEST BY SRI LANKA ACCREDITATION BOARD FOR CONFORMITY ASSESSMENT (SLAB)**

**NOTE:**

mg/l: milligrams per liter, ppt: parts per thousand,  
APHA: American Public Health Association  
ND: Not Detected, LOQ: Limit of Quantification,  
NTU: Nephelometric Turbidity Units, °C : Celcius,  
ICP-MS: Inductively Coupled Plasma – Mass Spectroscopy.

**Contact information for this report (Technical and General Inquiries and Feedback)**

GENERAL INQUIRIES:		
IROSHA UDUGAMPALA	TEL: +94 768 229 528	E-MAIL: Irosha.Udugampala@lk.bureauveritas.com
TECHNICAL INQUIRIES:		
INDRAJITH HATHURUSINGHA	TEL: + 94 769 603 814	E-MAIL: Indrajith.hs@lk.bureauveritas.com
FEED BACK:		
DHANUKA PERERA –EXECUTIVE QHSE	TEL: +94 768 229 479	E-MAIL: dhanuka.perera@lk.bureauveritas.com

REVIEWED BY: SHYAMIKA WICKRAMASINGHE

BUREAU VERITAS CONSUMER PRODUCTS SERVICES LANKA (PVT) LTD.

AUTHORIZED SIGNATORY

APPROVED BY: for   
INDRAJITH HATHURUSINGHA  
MANAGER -  
FOOD LABORATORY



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**END OF THE REPORT.**

Environmental Impact Assessment for the Waste-to-Energy Plant Project in Thilafushi  
**Biodiversity and Critical Habitat Assessment**



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



25<sup>th</sup> November 2019



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## I. Introduction

1. The ADB Safeguard Policy Statement (ADB 2009) requires assessment of whether the project is planned in an area that may qualify as Critical Habitat or Natural Habitat. This assessment followed more detailed guidance in International Finance Corporation Performance Standard 6 and its recently updated accompanying guidance note (IFC 2012, 2019).
2. ADB SPS requires that any projects financed by ADB shall not implement project activities and components in area of critical habitat/s, unless (i) there are no measurable adverse impacts on the critical habitat that could impair its ability to function, (ii) there is no reduction in the population of any recognized endangered or critically endangered species, and (iii) any lesser impacts are mitigated. If a project is located within a legally protected area, ADB requires that the project implement additional programs to promote and enhance the conservation aims of the protected area. In an area of natural habitats, there must be no significant conversion or degradation, unless (i) alternatives are not available, (ii) the overall benefits from the project substantially outweigh the environmental costs, and (iii) any conversion or degradation is appropriately mitigated. ADB SPS further requires the use of precautionary approach in the use, development, and management of renewable natural resources.
3. In order to assess whether the Greater Malé Waste-to-Energy Project (WTE project) is located in a critical habitat, an initial screening was undertaken using the Integrated Biodiversity Assessment Tool (IBAT).<sup>1</sup> Results show that the location of the WTE project is likely a critical habitat. Therefore, a critical habitat assessment is needed to confirm the results.
4. This biodiversity and critical habitat assessment is applicable to the WTE project. Apart from the information from the IBAT screening, this report is also based on the baseline information provided in the EIA for the WTE project, which was supported with literature review and field data collection.

## II. Definition of Critical Habitat

5. Critical habitat is defined in ADB SPS (2009) as a subset of both natural and modified habitat that deserves particular attention. Critical habitat includes areas with high biodiversity value, including (i) habitat required for the survival of critically endangered or endangered species; (ii) areas having special significance for endemic or restricted-range species; (iii) sites that are critical for the survival of migratory species; (iv) areas supporting globally significant concentrations or numbers of individuals of congregatory species; (v) areas with unique assemblages of species or that are associated with key evolutionary processes or provide key ecosystem services; and (vi) areas having biodiversity of significant social, economic, or cultural importance to local communities.

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<sup>1</sup> The Integrated Biodiversity Assessment Tool (IBAT) is a multi-institutional programme of work involving BirdLife International, Conservation International, IUCN, and UNEP-WCMC. IBAT provides a basic risk screening on biodiversity. It draws together information on globally recognised biodiversity information drawn from a number of IUCN's Knowledge Products: IUCN Red List of Threatened Species, Key Biodiversity Areas (priority sites for conservation) and Protected Planet/The World Database on Protected Areas (covering nationally and internationally recognised sites, including IUCN management categories I–VI, Ramsar Wetlands of International Importance and World Heritage sites).

### III. Areas of analysis

6. Critical Habitat and Natural Habitat assessment ideally takes place across sensible ecological or political units that are sufficiently large to encompass all direct and indirect impacts from the project. These areas of analysis (AoAs) are thus often much broader than the direct project footprint. AoAs may be separate or combined, depending on the ecology of the biodiversity concerned.

7. Considering the extent of potential impacts on aquatic biodiversity from the Project an aquatic AoA was identified as the 50-km study area to make consistent with the default range in the IBAT Screening. This area is approximately within the Zone 3 of Maldives, within which common biological communities and/or management issues exist (Figure 1).

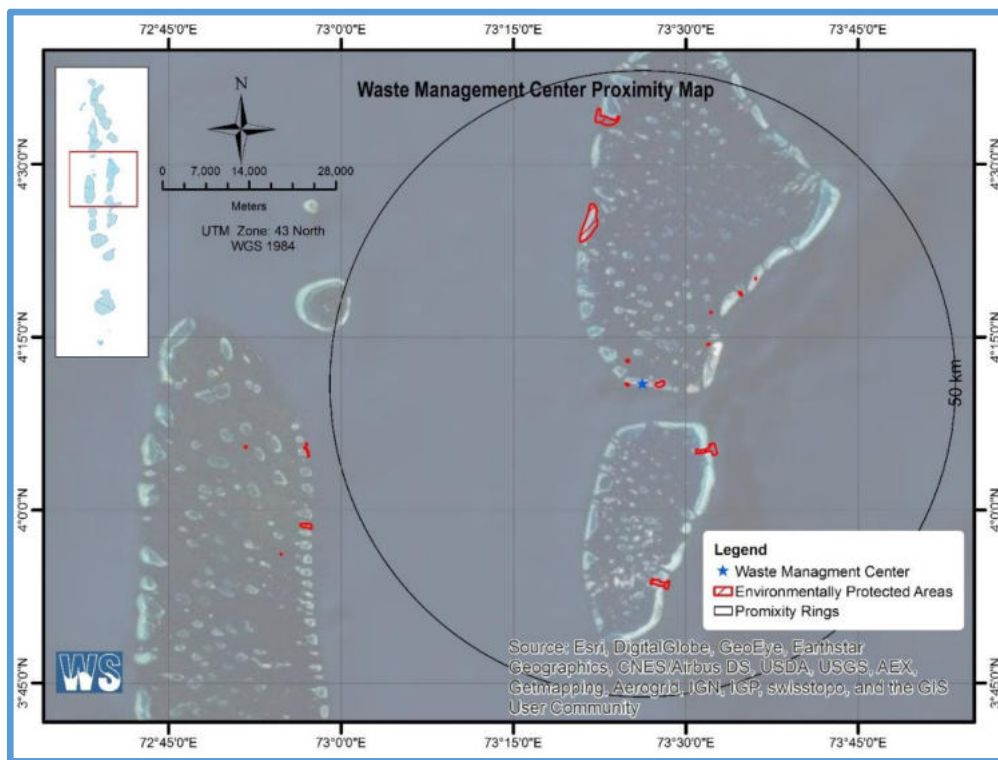


Figure 1: 50km buffer zone from project site at Thilafushi

8. Identification of AoAs does not mean that the project has any obligations across them. The aim of this Critical Habitat Assessment is to identify whether the broad units qualify as Critical Habitat and, if so, for which biodiversity features. This information helps to prioritize impact assessment and to focus mitigation efforts.

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#### IV. Thresholds of Critical Habitat

1. To identify if a certain species can qualify the project AoA as Critical Habitat, the IFC Guidance Note 6 (2019)<sup>2</sup> has been used.

#### V. Critical Habitat Screening and Assessment

2. Critical habitat screening considered critical habitat-qualifying biodiversity candidates identified within the EIA as actually or potentially present. In each case, reasons are identified for each biodiversity feature likely meeting or not meeting Critical Habitat. IBAT was used as the initial screening for critical habitat values. Performance Standard 6 (PS6) defines these values for critical habitat (PS6: para. 16) and legally protected and internationally recognized areas (PS6: para. 20). The IBAT was used to screen for known risks within a standard 50km buffer of the project area at Thilafushi (see **Error! Reference source not found.**).

#### VI. Criteria 1 – 3: Critically Endangered or Endangered Species, Endemic and/or Restricted-range species Migratory or Congregatory Species

3. Habitat of significant importance to priority species can trigger critical habitat status. IBAT was used to create a preliminary list of priority species that could occur within the AoA. This list is drawn from the IUCN Red List of Threatened Species (IUCN RL). Due to the uncertainty surrounding the assessment at this preliminary stage, the list of species for which Critical Habitat may be triggered is still provisional and will require further analysis as reiterated in the conclusion.

4. The justification for the assessment has been provided in Table 1.

5. It should be noted that this list is preliminary and other species not currently included or poorly represented such as birds, fish, and invertebrates may come to light and require inclusion following monitoring and field surveys, continued desk study, and stakeholder engagement during project implementation.

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<sup>2</sup> [https://www.ifc.org/wps/wcm/connect/5e0f3c0c-0aa4-4290-a0f8-4490b61de245/GN6\\_English\\_June-27-2019.pdf?MOD=AJPERES&CVID=mRQjZva](https://www.ifc.org/wps/wcm/connect/5e0f3c0c-0aa4-4290-a0f8-4490b61de245/GN6_English_June-27-2019.pdf?MOD=AJPERES&CVID=mRQjZva)

Table 1: Critical Habitat Screening Assessment

Species Name	Criteria 1 CR or EN Species	Criteria 2 Endemic / Restricted Range Species	Criteria 3 Migratory Congregatory Species	Rationale
<b>Mammals</b>				
Blue Whale <i>Balaenoptera musculus</i>	EN	-	M	About 5,000 individuals of this species survive today in three populations: North Atlantic, North Pacific, and the Southern Hemisphere. According to interviews with local people, there has been only few sightings of Blue Whales in Maldives waters and is regarded as an uncommon visitor to the Maldives. There is no recorded information that can confirm the regular occurrence of this species in the AoA. It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs, at least seasonally. <i>Balaenoptera musculus</i> does not appear to qualify the Project area as Critical Habitat.
<b>Birds</b>				
Matsudaira's Storm-petrel <i>Oceanodroma matsudairae</i>	-	RS	M	Population is only known to breed on the Volcano Islands in southern Japan. After breeding the species move south across equatorial belt and then winters in the equatorial belt. Only recorded in Ha. Atoll (Anderson & Baldock 2001), which is not within the AoA. There is a possibility that the species could occur near the coast in the Project AoA. This is, however, unlikely given degradation and development in that area. Based on the available information, <10% of the species' range overlap the terrestrial AoA, and there is low likelihood that suitable habitat exists in the Project area. <i>Oceanodroma matsudairae</i> does not appear to qualify the Project area as Critical Habitat.



Species Name	Criteria 1 CR or EN Species	Criteria 2 Endemic / Restricted Range Species	Criteria 3 Migratory / Congregatory Species	Rationale
<b>Odonata</b>				
<i>Enallagma maldivense</i>	CR	RS	-	<i>Enallagma maldivensis</i> is a species of damselfly. There is insufficient data available for this species. No data is available on its population size in the AoA nor population size for the entire country. Dragonflies normally are found in freshwater habitats. No information is available on the presence of freshwater habitats (e.g. ponds) in the AoA. On a precautionary basis, it is possible that the terrestrial AoA holds more than 0.5% of the global population of this globally Critically Endangered damselfly. <b>As such, <i>Enallagma maldivense</i> qualifies the project AoA as Critical Habitat.</b>
<b>Fishes</b>				
Pondicherry Shark <i>Carcharhinus hemiodon</i>	CR	-	-	The Pondicherry Shark is a rare shark found on the continental and insular shelves of the eastern Indian Ocean and the western Pacific, from India to New Guinea. Thought to be extinct, recently found near a seasonal fishing village in Sri Lanka. There have been no recorded sightings in Maldives. It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Carcharhinus hemiodon</i> does not appear to qualify the Project area as Critical Habitat.
Bowmouth Guitar shark <i>Rhina ancylostoma</i>	VU*	-	-	Although this shark is found throughout coastal areas across the Indian Ocean, sightings of this species in Maldives is rare. There is no recorded information that can confirm the regular occurrence of this species in the AoA. There is no reason to suspect that the AoA holds disproportionately high or low populations. The Project only occupies a small percentage of the AoA and is not predicted to have broad-scale impacts. Without further information, it thus seems unlikely that the Project could have impacts on this shark that would impact it to a level that it would become Endangered. As such, <i>Rhina ancylostoma</i> does not qualify the Project area as Critical Habitat.

Species Name	Criteria 1 CR or EN Species	Criteria 2 Endemic / Restricted Range Species	Criteria 3 Migratory Congregatory Species	Rationale
Bottlenose Wedge shark <i>Rhynchobatus australiae</i>	CR	-	-	<p>The Bottlenose Wedgefish inhabits inshore waters on the continental shelves, specifically enclosed bays, estuaries, and coral reefs. It is found in South-East Asia and Australia.</p> <p>Although this shark is also found throughout coastal areas across the Indian Ocean, sightings of this species in Maldives is rare. There is no recorded information that can confirm the regular occurrence of this species in the AoA. It is very unlikely that the Project AoA holds &gt;0.5% of the global population of this species, and &gt;5 pairs. <i>Rhynchobatus australiae</i> does not appear to qualify the Project area as Critical Habitat.</p>
Whale Shark <i>Rhincodon typus</i>	EN	-	-	<p>Whale sharks are commonly found within Maldives. A possible resident population exists in ADh. Atoll which is outside the AoA. Sightings are rare within the AoA. It is very unlikely that the Project AoA holds &gt;0.5% of the global population of this species, and &gt;5 pairs. <i>Rhincodon typus</i> does not appear to qualify the Project area as Critical Habitat.</p>
Shortfin Mako Shark <i>Isurus oxyrinchus</i>	EN	-	M	<p>The Shortfin Mako is an offshore littoral and epipelagic species found occurring in tropical and warm-temperate waters of all oceans. It is a highly migratory species making extensive journeys of over 3,000 kilometers. This species is found throughout Maldives. However, occurrence close to the atolls is very rare. There is no recorded information that can confirm the regular occurrence of this species in the AoA, It is very unlikely that the Project AoA holds &gt;0.5% of the global population of this species, and &gt;5 pairs. <i>Isurus oxyrinchus</i> does not appear to qualify the Project area as Critical Habitat.</p>

Species Name	Criteria 1 CR or EN Species	Criteria 2 Endemic / Restricted Range Species	Criteria 3 Migratory Congregatory Species	Rationale
Great Hammerhead <i>Sphyrna mokarran</i>	EN	-	-	<i>Sphyrna mokarran</i> is a coastal-pelagic and semi-oceanic tropical hammerhead occurring close inshore and well offshore, over the continental shelves, island terraces, and in passes and lagoons of coral atolls, as well as over deep water near land. Sightings are seasonal during the start of North-east Monsoon. According to diver community, southern atolls have the most likelihood of sightings which fall outside the AoA. The great hammerhead ranges widely throughout the tropical waters of the world. For this reason, it is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Sphyrna mokarran</i> does not appear to qualify the Project area as Critical Habitat.
Ornate Eagle Ray <i>Aetomylaeus vespertilio</i>	EN	-	-	The Ornate Eagle Ray has a sporadic distribution in the Indo-West Pacific, including Maldives. It occurs on the inner continental shelf to depths of 110 m over soft sandy substrate. Rarely seen and one sighting at Landaa Giraavaru, Baa Atoll, Maldives was recorded on February 2018. This area is outside the AoA. It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Aetomylaeus vespertilio</i> does not appear to qualify the Project area as Critical Habitat.
Longfin Mako <i>Isurus paucus</i>	EN	-	-	The Longfin Mako is widespread in tropical and warm temperate waters, and likely occurs in all oceans, although its distribution is poorly recorded. Sightings of this species in Maldives is rare. It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Isurus paucus</i> does not appear to qualify the Project area as Critical Habitat.

Species Name	Criteria 1 CR or EN Species	Criteria 2 Endemic / Restricted Range Species	Criteria 3 Migratory / Congregatory Species	Rationale
Sky Emperor <i>Lethrinus mahsena</i>	EN	-	-	This species is found in coral reef habitats and adjacent sandy and seagrass areas. Commercially fished in most of its habitat, but there are no evidences that it happens in the Maldives as well. It is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Lethrinus mahsena</i> does not appear to qualify the Project area as Critical Habitat.
<b>Echinoderms</b>				
Golden Sandfish <i>Holothuria scabra</i> ; Golden Sandfish <i>Holothuria lesson</i> ; Black Teatfish <i>Holothuria nobilis</i>	EN	-	-	All these holothurian species are fished commercially, with some local populations in sharp decline due to overexploitation. All three species have a wide range across Indo-Pacific tropical seas. No information is available about the presence and abundance of these species in the project AoA; however, it is very unlikely that the Project AoA holds >0.5% of the global population of this species, and >5 pairs. <i>Holothuria spp.</i> do not appear to qualify the Project area as Critical Habitat.
<b>Corals</b>				
<i>Acropora rudis</i>	EN	-	-	This species is found in the northern Indian Ocean and the central Indo-Pacific. Found also in the Maldives, however, data lacks on population size. The AoA is already impacted and not all the reefs are in pristine conditions, and this species was also not found during the underwater surveys. It is extremely unlikely the Project AoA holds >0.5% of the global population of this species. <i>Acropora rudis</i> does not appear to qualify the Project area as Critical Habitat.

CR – Critically Endangered under IUCN Red List; EN – Endangered under the IUCN Red List; RS – Restricted Range Species under IUCN; M – migratory.

\*- Recently changed to vulnerable status in IUCN Red List





## VII. Criterion 4: Unique assemblages of species that are associated with key evolutionary processes

6. As is the case for the majority of Indo-Pacific islands, the Maldives Archipelago has been subject to long and extreme isolation that has allowed evolutionary processes to generate unique, endemic flora and fauna. Beyond this general context, however, there is no reason to believe that the terrestrial or aquatic AoA host particularly unusual or key evolutionary processes. Unique assemblages of species associated with key evolutionary processes thus do not qualify the Project area as Critical Habitat.

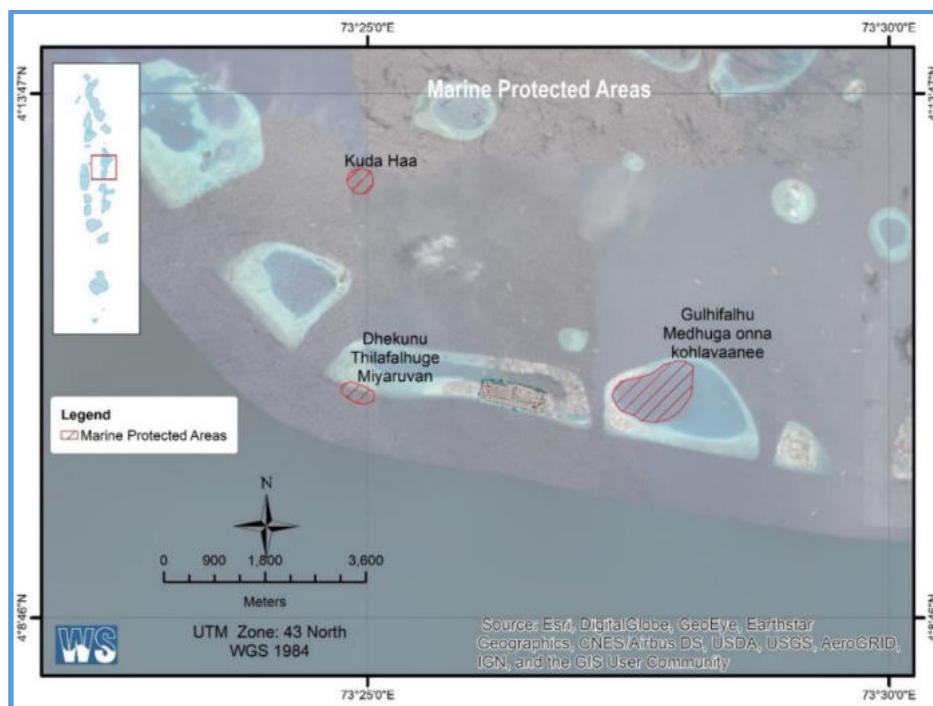
## VIII. Criterion 5: Areas having biodiversity of significant social, economic, or cultural importance to local communities (including ecosystem services)

7. This additional assessment considers the ecosystem services from biodiversity in general. The assessment of significance of ecosystem services to local communities is assessed retrospectively in line with the consultation with local dive communities.

8. Ecosystem services affected by the project are prioritized when all three of the following criteria are met: (i) the project might affect the ability of others to benefit from the service; (ii) the affected service is important to beneficiaries' well-being; and (iii) beneficiaries do not have viable alternatives for that service.

9. The limited information presented does not give reason to believe that the Project terrestrial or aquatic AoA are sufficiently important to local people that they represent Critical Habitat under this criterion. However, it is beyond the scope of this assessment to collect additional information on ecosystem services, and then to assess which may qualify the project area as Critical Habitat.

**Figure 2. 5km buffer zone from project site at Thilafushi**



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## **IX. Legally protected areas and internationally recognized areas**

10. There are some areas near to the Project. The nearest MPA to the WTE project site is the “*Lions Head*” (Dhekunu Thilafalhuge Miyaruvani), around 1 km from the proposed plant. Additionally, as a precautionary approach, a more focused habitat assessment was conducted for this MPA. Results show that none of the IUCN species categorized as critically endangered species, endangered species or vulnerable species is found within this MPA. Results also show that none of nationally protected species is found within this MPA either. A complete assessment of the Lions Head is attached as Annex 2.

24. Following IFC (2019), none of the protected areas found in the Project AoA meets the thresholds for Critical Habitat for some species for which it was designated. For this reason, none of the protected areas found in the AoA qualify the Project area as Critical Habitat.

## **X. Conclusion and Recommendations**

25. The WTE project will be established in Maldives, a country rich in biodiversity. Based on the initial screening using IBAT, the project site is likely to be a critical habitat at least for a terrestrial insect.

11. In the course of project implementation, it is highly recommended that continuous marine underwater monitoring be undertaken around Thilfushi island to confirm the extent of biodiversity in various seasons of the year, including assessment of features pertinent to critical habitats. In cases when future information determines the existence of critical habitat within the study area, the WTE project should be able to demonstrate that:

- (i) It does not lead to measurable adverse impacts on those biodiversity values for which the critical habitat was designated, and on the ecological processes supporting those biodiversity values;
- (ii) It does not lead to a net reduction in the global and/or national/regional population of any Critically Endangered or Endangered species over a reasonable period of time; and
- (iii) It has integrated into its management program a robust, appropriately designed, and long-term biodiversity monitoring and evaluation program.

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**Annex 1: IBAT assessment report**





## Integrated Biodiversity Assessment Tool

# WORLD BANK GROUP BIODIVERSITY RISK SCREEN

Report generated on 20/11/2019 by Francesco Ricciardi under the license number 2780-5415 held by ADB. [www.ibat-alliance.org](http://www.ibat-alliance.org)

Project Name: Thlafushi WTE

Location: [ 4.2, 73.4 ]

### Overlaps with:

Protected Areas	11
Key Biodiversity Areas	0
IUCN Red List	15
Critical Habitat	Likely



Displaying project location and buffers: 10.0 km, 50.0 km



This report is based on IFC Performance Standard 6 (PS6) but applies to World Bank Environmental and Social Standard 6 (ESS6)





## About this report

IBAT provides initial screening for critical habitat values. Performance Standard 6 (PS6) defines these values for critical habitat (PS6: para. 16) and legally protected and internationally recognized areas (PS6: para. 20). PS6 will be triggered when IFC client activities are located in modified habitats containing "significant biodiversity value," natural habitats, critical habitats, legally protected areas, or areas that are internationally recognized for biodiversity. References to PS6 and Guidance Note 6 (GN6) are provided to guide further assessment and detailed definitions where necessary. Please see <https://www.ifc.org/ps6> for full details on PS6 and GN6.

The report screens for known risks within a standard 50km buffer of the coordinates used for analysis. This buffer is not intended to indicate the area of impact. The report can be used to:

- Scope risks to include within an assessment of risks and impacts
- Identify gaps within an existing assessment of risks and impacts
- Prioritize between sites in a portfolio for further assessment of risks and impacts
- Inform a preliminary determination of critical habitat
- Assess the need for engaging a biodiversity specialist
- Identify additional conservation experts or organizations to inform further assessment or planning

WARNING: IBAT aims to provide the most up-to-date and accurate information available at the time of analysis. There is however a possibility of incomplete, incorrect or out-of-date information. All findings in this report must be supported by further desktop review, consultation with experts and/or on-the-ground field assessment as described in PS6 and GN6. Please consult IBAT for any additional disclaimers or recommendations applicable to the information used to generate this report.

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## Priority Species

Habitat of significant importance to priority species will trigger critical habitat status (See PS6: para 16). IBAT provides a preliminary list of priority species that could occur within the 50km buffer. This list is drawn from the IUCN Red List of Threatened Species (IUCN RL). This list should be used to guide any further assessment, with the aim of confirming known or likely occurrence of these species within the project area. It is also possible that further assessment may confirm occurrence of additional priority species not listed here. It is strongly encouraged that any new species information collected by the project be shared with species experts and/or IUCN wherever possible in order to improve IUCN datasets.

## IUCN Red List of Threatened Species - CR & EN

The following species are potentially found within 50km of the area of interest.  
For the full IUCN Red List please refer to the associated csv in the report folder.

Species name	Common name	IUCN Category	Group
<i>Carcharhinus hemiodon</i>	Pondicherry Shark	CR	CHONDRICHTHYES
<i>Rhina ancylostoma</i>	Bowmouth Guitarfish	CR	CHONDRICHTHYES
<i>Rhynchobatus australiae</i>	Bottlenose Wedgefish	CR	CHONDRICHTHYES
<i>Enallagma maldivense</i>		CR	INSECTA
<i>Balaenoptera musculus</i>	Blue Whale	EN	MAMMALIA
<i>Rhincodon typus</i>	Whale Shark	EN	CHONDRICHTHYES
<i>Isurus oxyrinchus</i>	Shortfin Mako	EN	CHONDRICHTHYES
<i>Sphyrna mokarran</i>	Great Hammerhead	EN	CHONDRICHTHYES
<i>Aetomylaeus vespertilio</i>	Ornate Eagle Ray	EN	CHONDRICHTHYES
<i>Isurus paucus</i>	Longfin Mako	EN	CHONDRICHTHYES
<i>Acropora rudis</i>		EN	ANTHOZOA







## Biodiversity features which are likely to trigger Critical Habitat

### Protected Areas

The following protected areas are found within 10.0 km and 50.0 km of the area of interest. For further details please refer to the associated csv file in the report folder.

Area name	Distance	Recommendation
Giravaru Kuda Haas	10.0 km	● Assess for biodiversity risk
Hans Haas Plave (Gulhi Falhu)	10.0 km	● Assess for biodiversity risk
Lions Head (Thilafalhu Miyaruvani)	10.0 km	● Assess for biodiversity risk
Banana reef (Gaathu Giri)	50.0 km	● Assess for biodiversity risk
Embudhoo Kanduolhi	50.0 km	● Assess for biodiversity risk
Guraidhoo Kandu	50.0 km	● Assess for biodiversity risk
Huraa Mangrove	50.0 km	● Assess for biodiversity risk
Makurudhoo Kandu	50.0 km	● Assess for biodiversity risk
Nassimo Thila (Lankan Thila)	50.0 km	● Assess for biodiversity risk
Rasfari	50.0 km	● Assess for biodiversity risk
Thanburudhoo Thila (HP Reef)	50.0 km	● Assess for biodiversity risk

### Key Biodiversity Areas

