ภาคผนวก

ภาคผนวก ก **หนังสือรับรองผลการตรวจวิเคราะห์ผลกระทบสิ่งแวดล้อม**

คุณภาพอากาศจากปล่อง

คุณภาพอากาศในบรรยากาศทั่วไป

ระดับเสียงในบรรยากาศทั่วไป

คุณภาพน้ำผิวดิน

คุณภาพน้ำทิ้ง

คุณภาพน้ำใต้ดิน (บ่อสังเกตการณ์)

คุณภาพดินและน้ำใต้ดินในพื้นที่เกษตรกรคู่สัญญา

ภาคผนวก ข **สำเนาหนังสือรับรองห้องปฏิบัติการวิเคราะห์เอกชน บริษัท เอสจีเอส (ประเทศไทย) จำกัด**

ภาคผนวก ค **สำเนาใบรับรองการสอบเทียบเครื่องมือ**

ภาคผนวก ง **มาตรฐานสิ่งแวดล้อมที่ใช้เปรียบเทียบ**

ภาคผนวก

ภาคผนวก ก

หนังสือรับรองผลการตรวจวิเคราะห์

คุณภาพอากาศจากปล่อง

Docusign Envelope ID: 59A23F54-30D3-40D8-B4E3-503F45836DF9

Report No. : 2025-500005354 / 001-1 (Page 1 of 1) **Issued date:** October 27, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Emission Air
Sampling Location : Boiler – Normal Operation
Sampling By : Chaowalit Srinan (๖-197-๑-0028)
Sompong Katkhuntod (๖-197-๑-0008)
Laboratory Name : SGS (Thailand) Limited (๖-197)

Sampling Date : September 3, 2025
Sampling Time : 14:35 - 15:45 hrs.
Received Date : September 8, 2025
Analysis Date : September 8-19, 2025

Parameter		Unit	Value	Standard[1/2/]	Standard[3/]	Analytical Method
Fuel Type		-	Bagasse, Sugar Cane Leaves and Wood Chips	-	-	-
% Load		TPH	52.58 (52.58%)	-	-	-
Stack Diameter		cm	250	-	-	-
Stack Height		m	45.5	-	-	-
Stack Temperature		°C	131.8	-	-	-
Dry Gas Temperature		°C	32.0	-	-	-
Absolute Stack Pressure		mm.Hg	756.5	-	-	-
Air Velocity		m/s	9.74	-	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm^3/hr	95,291	-	-	U.S.EPA Method 2
Moisture		%	24.41	-	-	U.S.EPA Method 4
O_2		%	10.02	-	-	U.S.EPA Method 3A
CO_2		%	10.29	-	-	U.S.EPA Method 3A
SO_2	actual O_2	ppm	15.79	-	-	U.S. EPA Method 6C
	7% O_2	ppm	20.17	**≤60**	**≤22.16**	
	Emission rate	g/sec	1.094	-	**≤2.23**	By Calculation

Remark : - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.
Sources : 1/ Notification of the Ministry of Natural Resources and Environment B.E. 2566 (2023), published in the Royal Government Gazette, Vol.140, Special Part 205D, dated August 28, B.E. 2566 (2023).
2/ Notification of the Ministry of Industry B.E. 2567 (2024), published in the Royal Government Gazette, Vol 142, Special part 61 D, dated February 11, B.E. 2568 (2025).
3/ Emission standard of Thip Sukhothai Hybrid Energy, according to approved EIA of Thip Sukhothai Hybrid Energy as approval letter No. Tor Sor 1009.7/7844 dated April 19, B.E. 2566 (2023).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head
License ID: ๖-197-๓-0004

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager
License ID: ๖-197-๓-0005

SGS (THAILAND) LIMITED

TY/CS/PJW/PJW

LABORATORY ADDRESS: 1/209, and 1/211 Moo1, Soi Sukhumvit 2, Banchang, Banchang, Rayong, 21130

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Report No. : 2025-500004791-1 / 003-2 (Page 1 of 1) Issued date : August 7, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Emission Air Quality
SAMPLING LOCATION : Boiler – Soot Blow
SAMPLING BY : Surasuk Autamul (ว-197-จ-0007)
LABORATORY NAME : SGS (Thailand) Limited (ว-197)

SAMPLING DATE : July 4, 2025
SAMPLING TIME : 11:21-12:09 hr.

Parameter		Unit	Value	Standard[1/2/]	Standard[3/]	Analytical Method
Fuel Type		-	Bagasse, Sugar Cane Leaves and Wood Chips	-	-	-
% Load		TPH	52.58 (52.58%)			
Stack Diameter		cm	250	-	-	-
Stack Height		m	45.5	-	-	-
Stack Temperature		°C	99.3	-	-	-
Dry Gas Temperature		°C	21.0	-	-	-
Absolute Stack Pressure		mm.Hg	748.5	-	-	-
Air Velocity		m/s	12.44	-	-	U.S.EPA Method 2
Volumetric Flow Rate		Nm^3/hr	134,278	-	-	U.S.EPA Method 2
Moisture		%	22.50	-	-	U.S.EPA Method 4
O_2		%	8.81	-	-	U.S.EPA Method 3A
CO_2		%	11.42	-	-	U.S.EPA Method 3A
TSP	actual O_2	mg/Nm^3	29.55	-	-	U.S. EPA Method 5
	7% O_2	mg/Nm^3	33.98	**≤120**	**≤106.42**	
	Emission rate	g/sec	1.102	-	**≤4.09**	By Calculation

Remark : - N = Normal condition means reference condition at temperature of 25 °C, pressure of 1 atm or 760 mm.Hg, and dry basis.

Sources : 1/ Notification of the Ministry of Natural Resources and Environment B.E. 2566 (2023), published in the Royal Government Gazette, Vol.140, Special Part 205D, dated August 28, B.E. 2566 (2023).

2/ Notification of the Ministry of Industry B.E. 2567 (2024), published in the Royal Government Gazette, Vol 142, Special part 61 D dated February 11, B.E. 2568 (2025).

3/ Emission standard of Thip Sukhothai Hybrid Energy, according to approved EIA of Thip Sukhothai Hybrid Energy as approval letter No. Tor Sor 1009.7/7844 dated April 19, B.E. 2566 (2023).

[redacted]

(Thepsan Yommana)
Technical Manager
License ID : ว-197-ค-0005

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คุณภาพอากาศในบรรยากาศทั่วไป

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Report No. : 2025-500004791-1 / 001-1 (Page 1 of 3) Issued date : August 21, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : วัดห้วยไคร้ (UTM47Q 0593479E, 1941359N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Date	TSP (mg/m^3)	PM-10 (mg/m^3)	PM-2.5 (µg/m^3)
July 1-2, 2025	0.041	0.020	8.2
July 2-3, 2025	0.038	0.018	9.2
July 3-4, 2025	0.032	0.017	13.4
July 4-5, 2025	0.036	0.020	14.4
July 5-6, 2025	0.036	0.018	6.5
July 6-7, 2025	0.034	0.017	6.9
July 7-8, 2025	0.030	0.017	9.8
Standard[1/]	**≤0.33**	**≤0.12**	**≤37.5[2/]**

Remark : - Sampling and analytical technique for PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.
Sources : [1/] Notification of the National Environment Board No.24, B.E.2547 (2004), published in the Royal Government Gazette, Vol.121, Special Part 104D, dated September 22, B.E. 2547 (2004).
[2/] Notification of the National Environment Board, B.E. 2565 (2022), published in the Royal Government Gazette, Vol.139, Special Part 163D, dated July 8, B.E. 2565 (2022).

[redacted]
(Thepsan Yommana)
Technical Manager

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CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : วัดห้วยไคร้ (UTM47Q 0593479E, 1941359N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Time	NO_2 Concentration (ppm)						
	July 1-2, 2025	July 2-3, 2025	July 3-4, 2025	July 4-5, 2025	July 5-6, 2025	July 6-7, 2025	July 7-8, 2025
09:00-10:00	0.002	0.004	0.003	0.003	0.001	0.004	0.006
10:00-11:00	0.005	0.003	0.005	0.002	0.007	0.003	0.004
11:00-12:00	0.007	0.002	0.002	0.002	0.004	0.006	0.005
12:00-13:00	0.003	0.004	0.002	0.005	0.003	0.005	0.003
13:00-14:00	0.003	0.001	0.006	0.002	0.007	0.001	0.007
14:00-15:00	0.002	0.005	0.007	0.001	0.003	0.005	0.006
15:00-16:00	0.003	0.006	0.001	0.007	0.001	0.004	0.005
16:00-17:00	0.003	0.001	0.005	0.006	0.002	0.005	0.003
17:00-18:00	0.002	0.005	0.007	0.005	0.004	0.001	0.007
18:00-19:00	0.004	0.006	0.007	0.006	0.005	0.007	0.001
19:00-20:00	0.002	0.007	0.004	0.001	0.007	0.005	0.002
20:00-21:00	0.007	0.002	0.006	0.005	0.004	0.006	0.001
21:00-22:00	0.007	0.001	0.001	0.002	0.002	0.001	0.006
22:00-23:00	0.005	0.004	0.003	0.003	0.003	0.006	0.007
23:00-00:00	0.007	0.003	0.005	0.002	0.004	0.002	0.004
00:00-01:00	0.005	0.005	0.002	0.006	0.005	0.007	0.005
01:00-02:00	0.003	0.004	0.005	0.004	0.007	0.004	0.006
02:00-03:00	0.004	0.006	0.001	0.007	0.005	0.003	0.002
03:00-04:00	0.001	0.003	0.003	0.004	0.004	0.005	0.006
04:00-05:00	0.005	0.001	0.003	0.005	0.003	0.003	0.004
05:00-06:00	0.003	0.003	0.006	0.004	0.002	0.002	0.007
06:00-07:00	0.002	0.005	0.001	0.002	0.001	0.001	0.002
07:00-08:00	0.005	0.007	0.004	0.007	0.007	0.004	0.002
08:00-09:00	0.002	0.004	0.005	0.007	0.003	0.007	0.003
1 hr.-Minimum	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
1 hr.-Maximum	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**	**0.007**
Standard[1/] (avg. 1)	**≤0.17**						

Analytical Method : - Chemiluminescence Method.
Source : [1/] Notification of the National Environment Board No.33, B.E.2552 (2009), published in the Royal Government Gazette, Vol.126, Special Part 114D, dated August 14, B.E. 2552 (2009).

[redacted]
(Thepsan Yommana)
Technical Manager

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CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : วัดห้วยไคร้ (UTM47Q 0593479E, 1941359N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Time	SO_2 Concentration (ppm)						
	July 1-2, 2025	July 2-3, 2025	July 3-4, 2025	July 4-5, 2025	July 5-6, 2025	July 6-7, 2025	July 7-8, 2025
09:00-10:00	0.002	0.001	0.002	0.002	0.002	0.002	0.001
10:00-11:00	0.003	0.001	0.002	0.001	0.002	0.002	0.002
11:00-12:00	0.001	0.002	0.002	0.001	0.001	0.001	0.002
12:00-13:00	0.001	0.002	0.001	0.001	0.002	0.002	0.002
13:00-14:00	0.002	0.001	0.002	0.002	0.001	0.001	0.002
14:00-15:00	0.001	0.003	0.001	0.001	0.001	0.001	0.002
15:00-16:00	0.002	0.003	0.001	0.001	0.002	0.001	0.002
16:00-17:00	0.001	0.002	0.001	0.002	0.002	0.002	0.002
17:00-18:00	0.002	0.001	0.002	0.002	0.001	0.001	0.001
18:00-19:00	0.001	0.001	0.001	0.001	0.001	0.001	0.002
19:00-20:00	0.003	0.001	0.002	0.002	0.001	0.002	0.001
20:00-21:00	0.001	0.003	0.001	0.001	0.001	0.002	0.001
21:00-22:00	0.002	0.003	0.002	0.001	0.002	0.001	0.002
22:00-23:00	0.002	0.002	0.002	0.001	0.001	0.001	0.002
23:00-00:00	0.003	0.002	0.002	0.001	0.001	0.001	0.001
00:00-01:00	0.001	0.002	0.002	0.001	0.001	0.002	0.002
01:00-02:00	0.002	0.001	0.002	0.001	0.002	0.001	0.002
02:00-03:00	0.003	0.001	0.001	0.001	0.002	0.001	0.002
03:00-04:00	0.002	0.002	0.002	0.001	0.001	0.001	0.002
04:00-05:00	0.002	0.001	0.001	0.002	0.002	0.002	0.002
05:00-06:00	0.002	0.001	0.001	0.002	0.002	0.002	0.002
06:00-07:00	0.003	0.002	0.001	0.001	0.002	0.002	0.002
07:00-08:00	0.003	0.002	0.002	0.002	0.001	0.002	0.004
08:00-09:00	0.002	0.002	0.001	0.002	0.001	0.002	0.001
1 hr-Minimum	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
1 hr-Maximum	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.004**
Average 24 hr	**0.002**	**0.002**	**0.002**	**0.001**	**0.001**	**0.002**	**0.002**
Standard[1/] (avg. 1 hr)	**≤0.30**						
Standard[2/] (avg. 24 hr)	**≤0.12**						

Analytical Method : - UV Fluorescence Method
Sources : [1/] Notification of the National Environment Board No.21, B.E.2544 (2001), published in the Royal Government Gazette, Vol.118, Special Part 39D, dated April 30, B.E. 2544 (2001).
[2/] Notification of the National Environment Board No.24, B.E.2547 (2004), published in the Royal Government Gazette, Vol.121, Special Part 104D, dated September 22, B.E. 2547 (2004).

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(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 001-2 (Page 1 of 3) Issued date : August 21, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : วัดใหม่แสงทอง (UTM47Q 0589666E, 1940336N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Date	TSP (mg/m^3)	PM-10 (mg/m^3)	PM-2.5 (µg/m^3)
July 1-2, 2025	0.045	0.031	11.3
July 2-3, 2025	0.027	0.019	5.3
July 3-4, 2025	0.041	0.027	10.3
July 4-5, 2025	0.040	0.025	14.7
July 5-6, 2025	0.033	0.022	7.7
July 6-7, 2025	0.030	0.021	5.9
July 7-8, 2025	0.048	0.022	6.9
Standard[1/]	**≤0.33**	**≤0.12**	**≤37.5[2/]**

Remark : - Sampling and analytical technique for PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.
Sources : [1/] Notification of the National Environment Board No.24, B.E.2547 (2004), published in the Royal Government Gazette, Vol.121, Special Part 104D, dated September 22, B.E. 2547 (2004).
[2/] Notification of the National Environment Board, B.E. 2565 (2022), published in the Royal Government Gazette, Vol.139, Special Part 163D, dated July 8, B.E. 2565 (2022).

(Thepsan Yommana)
Technical Manager

SGS (THAILAND) LIMITED

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CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : วัดใหม่แสงทอง (UTM47Q 0589666E, 1940336N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Time	NO_2 Concentration (ppm)						
	July 1-2, 2025	July 2-3, 2025	July 3-4, 2025	July 4-5, 2025	July 5-6, 2025	July 6-7, 2025	July 7-8, 2025
09:00-10:00	0.008	0.011	0.010	0.004	0.005	0.010	0.007
10:00-11:00	0.005	0.006	0.002	0.009	0.006	0.010	0.005
11:00-12:00	0.010	0.011	0.011	0.009	0.006	0.008	0.004
12:00-13:00	0.009	0.010	0.004	0.002	0.004	0.011	0.008
13:00-14:00	0.004	0.007	0.004	0.011	0.008	0.006	0.011
14:00-15:00	0.005	0.011	0.011	0.005	0.005	0.009	0.007
15:00-16:00	0.008	0.011	0.008	0.012	0.010	0.005	0.006
16:00-17:00	0.004	0.006	0.003	0.007	0.010	0.004	0.011
17:00-18:00	0.009	0.006	0.007	0.012	0.011	0.011	0.008
18:00-19:00	0.007	0.007	0.011	0.010	0.008	0.010	0.007
19:00-20:00	0.004	0.010	0.002	0.010	0.010	0.007	0.006
20:00-21:00	0.005	0.006	0.011	0.007	0.005	0.011	0.005
21:00-22:00	0.008	0.007	0.004	0.008	0.005	0.004	0.011
22:00-23:00	0.008	0.008	0.003	0.011	0.004	0.009	0.004
23:00-00:00	0.011	0.010	0.011	0.009	0.009	0.005	0.004
00:00-01:00	0.006	0.002	0.003	0.007	0.008	0.009	0.011
01:00-02:00	0.011	0.007	0.012	0.009	0.009	0.004	0.009
02:00-03:00	0.004	0.002	0.008	0.011	0.004	0.010	0.011
03:00-04:00	0.007	0.009	0.005	0.006	0.007	0.010	0.011
04:00-05:00	0.008	0.006	0.009	0.004	0.007	0.006	0.004
05:00-06:00	0.010	0.005	0.009	0.011	0.011	0.005	0.010
06:00-07:00	0.005	0.007	0.003	0.007	0.009	0.010	0.005
07:00-08:00	0.011	0.007	0.008	0.004	0.011	0.006	0.010
08:00-09:00	0.008	0.010	0.002	0.010	0.009	0.008	0.003
1 hr.-Minimum	**0.004**	**0.002**	**0.002**	**0.002**	**0.004**	**0.004**	**0.003**
1 hr.-Maximum	**0.011**	**0.011**	**0.012**	**0.012**	**0.011**	**0.011**	**0.011**
Standard[1/] (avg. 1)	**≤0.17**						

Analytical Method : - Chemiluminescence Method.
Source : [1/] Notification of the National Environment Board No.33, B.E.2552 (2009), published in the Royal Government Gazette, Vol.126, Special Part 114D, dated August 14, B.E. 2552 (2009).

[redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: D3F143F3-5BA6-40BC-8270-2BB8880A5717

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : วัดใหม่แสงทอง (UTM47Q 0589666E, 1940336N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Time	SO_2 Concentration (ppm)						
	July 1-2, 2025	July 2-3, 2025	July 3-4, 2025	July 4-5, 2025	July 5-6, 2025	July 6-7, 2025	July 7-8, 2025
09:00-10:00	0.004	0.004	0.002	0.003	0.001	0.001	0.003
10:00-11:00	0.004	0.003	0.001	0.002	0.002	0.001	0.001
11:00-12:00	0.003	0.002	0.002	0.002	0.002	0.001	0.003
12:00-13:00	0.002	0.001	0.003	0.002	0.001	0.001	0.004
13:00-14:00	0.001	0.004	0.001	0.004	0.002	0.001	0.002
14:00-15:00	0.003	0.001	0.003	0.003	0.001	0.002	0.001
15:00-16:00	0.003	0.004	0.004	0.001	0.002	0.003	0.004
16:00-17:00	0.002	0.002	0.002	0.001	0.001	0.004	0.003
17:00-18:00	0.003	0.003	0.002	0.002	0.002	0.002	0.001
18:00-19:00	0.004	0.004	0.002	0.001	0.001	0.002	0.004
19:00-20:00	0.001	0.001	0.002	0.002	0.002	0.001	0.001
20:00-21:00	0.002	0.002	0.001	0.001	0.002	0.004	0.002
21:00-22:00	0.004	0.003	0.003	0.003	0.002	0.002	0.004
22:00-23:00	0.002	0.001	0.002	0.003	0.002	0.001	0.001
23:00-00:00	0.004	0.003	0.004	0.004	0.002	0.003	0.003
00:00-01:00	0.004	0.001	0.003	0.001	0.001	0.002	0.003
01:00-02:00	0.001	0.004	0.001	0.001	0.002	0.001	0.003
02:00-03:00	0.004	0.002	0.004	0.001	0.002	0.001	0.003
03:00-04:00	0.003	0.004	0.001	0.002	0.001	0.004	0.001
04:00-05:00	0.001	0.003	0.004	0.001	0.002	0.001	0.002
05:00-06:00	0.002	0.002	0.002	0.001	0.001	0.003	0.004
06:00-07:00	0.001	0.001	0.002	0.002	0.001	0.001	0.003
07:00-08:00	0.001	0.002	0.003	0.002	0.001	0.004	0.003
08:00-09:00	0.002	0.001	0.002	0.001	0.002	0.004	0.002
1 hr-Minimum	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
1 hr-Maximum	**0.004**	**0.004**	**0.004**	**0.004**	**0.002**	**0.004**	**0.004**
Average 24 hr	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**	**0.003**
Standard[1/] (avg. 1 hr)	**≤0.30**						
Standard[2/] (avg. 24 hr)	**≤0.12**						

Analytical Method : - UV Fluorescence Method
Sources : [1/] Notification of the National Environment Board No.21, B.E.2544 (2001), published in the Royal Government Gazette, Vol.118, Special Part 39D, dated April 30, B.E. 2544 (2001).
[2/] Notification of the National Environment Board No.24, B.E.2547 (2004), published in the Roya[redacted]pecial Part 104D, dated September 22, B.E. 2547 (2004).

(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 001-3 (Page 1 of 3) Issued date : August 21, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : บ้านห้วยสัก (หมู่ที่ 6) (UTM47Q 0593094E, 1938594N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Date	TSP (mg/m^3)	PM-10 (mg/m^3)	PM-2.5 (µg/m^3)
July 1-2, 2025	0.065	0.024	9.1
July 2-3, 2025	0.055	0.031	7.9
July 3-4, 2025	0.072	0.027	5.6
July 4-5, 2025	0.066	0.020	6.9
July 5-6, 2025	0.064	0.019	8.7
July 6-7, 2025	0.050	0.016	6.4
July 7-8, 2025	0.046	0.017	8.7
Standard[1/]	**≤0.33**	**≤0.12**	**≤37.5[2/]**

Remark : - Sampling and analytical technique for PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.
Sources : [1/] Notification of the National Environment Board No.24, B.E.2547 (2004), published in the Royal Government Gazette, Vol.121, Special Part 104D, dated September 22, B.E. 2547 (2004).
[2/] Notification of the National Environment Board, B.E. 2565 (2022), published in the Royal Government Gazette, Vol.139, Special Part 163D, dated July 8, B.E. 2565 (2022).

[redacted]
(Thepsan Yommana)
Technical Manager

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CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : บ้านห้วยสัก (หมู่ที่ 6) (UTM47Q 0593094E, 1938594N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Time	NO_2 Concentration (ppm)						
	July 1-2, 2025	July 2-3, 2025	July 3-4, 2025	July 4-5, 2025	July 5-6, 2025	July 6-7, 2025	July 7-8, 2025
10:00-11:00	0.009	0.006	0.005	0.005	0.005	0.007	0.008
11:00-12:00	0.010	0.005	0.004	0.005	0.007	0.003	0.005
12:00-13:00	0.007	0.007	0.005	0.003	0.004	0.004	0.008
13:00-14:00	0.007	0.005	0.004	0.003	0.003	0.005	0.006
14:00-15:00	0.004	0.003	0.004	0.005	0.003	0.005	0.003
15:00-16:00	0.005	0.004	0.003	0.003	0.003	0.003	0.005
16:00-17:00	0.005	0.004	0.004	0.004	0.003	0.005	0.005
17:00-18:00	0.008	0.004	0.002	0.003	0.004	0.004	0.004
18:00-19:00	0.006	0.005	0.002	0.003	0.003	0.004	0.004
19:00-20:00	0.006	0.002	0.004	0.004	0.002	0.003	0.006
20:00-21:00	0.006	0.002	0.002	0.004	0.002	0.003	0.005
21:00-22:00	0.007	0.004	0.003	0.004	0.003	0.002	0.005
22:00-23:00	0.005	0.005	0.004	0.004	0.003	0.004	0.002
23:00-00:00	0.005	0.005	0.004	0.004	0.004	0.003	0.003
00:00-01:00	0.005	0.005	0.004	0.003	0.010	0.003	0.003
01:00-02:00	0.005	0.004	0.004	0.003	0.004	0.004	0.004
02:00-03:00	0.004	0.004	0.007	0.005	0.005	0.004	0.003
03:00-04:00	0.005	0.005	0.010	0.003	0.004	0.007	0.004
04:00-05:00	0.007	0.004	0.006	0.003	0.008	0.006	0.004
05:00-06:00	0.008	0.003	0.004	0.004	0.010	0.010	0.003
06:00-07:00	0.006	0.005	0.003	0.005	0.007	0.005	0.006
07:00-08:00	0.006	0.005	0.004	0.005	0.005	0.005	0.003
08:00-09:00	0.008	0.005	0.005	0.006	0.006	0.005	0.002
09:00-10:00	0.008	0.004	0.004	0.005	0.007	0.007	0.002
1 hr.-Minimum	**0.004**	**0.002**	**0.002**	**0.003**	**0.002**	**0.002**	**0.002**
1 hr.-Maximum	**0.010**	**0.007**	**0.010**	**0.006**	**0.010**	**0.010**	**0.008**
Standard[1/] (avg. 1)	**≤0.17**						

Analytical Method : - Chemiluminescence Method.
Source : [1/] Notification of the National Environment Board No.33, B.E.2552 (2009), published in the Royal Government Gazette, Vol.126, Special Part 114D, dated August 14, B.E. 2552 (2009).

[redacted]
(Thepsan Yommana)
Technical Manager

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CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : บ้านห้วยสัก (หมู่ที่ 6) (UTM47Q 0593094E, 1938594N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Time	SO_2 Concentration (ppm)						
	July 1-2, 2025	July 2-3, 2025	July 3-4, 2025	July 4-5, 2025	July 5-6, 2025	July 6-7, 2025	July 7-8, 2025
10:00-11:00	0.002	0.001	0.002	0.003	0.002	0.002	0.002
11:00-12:00	0.001	0.002	0.002	0.002	0.002	0.001	0.002
12:00-13:00	0.002	0.002	0.002	0.004	0.001	0.001	0.002
13:00-14:00	0.001	0.001	0.002	0.005	0.002	0.001	0.001
14:00-15:00	0.002	0.001	0.001	0.003	0.002	0.002	0.001
15:00-16:00	0.002	0.001	0.001	0.005	0.001	0.001	0.002
16:00-17:00	0.001	0.001	0.002	0.004	0.001	0.002	0.002
17:00-18:00	0.002	0.001	0.001	0.002	0.002	0.001	0.001
18:00-19:00	0.002	0.001	0.002	0.003	0.002	0.001	0.001
19:00-20:00	0.002	0.001	0.001	0.005	0.001	0.002	0.001
20:00-21:00	0.001	0.001	0.001	0.002	0.002	0.001	0.001
21:00-22:00	0.001	0.001	0.002	0.004	0.002	0.001	0.001
22:00-23:00	0.002	0.001	0.001	0.002	0.001	0.002	0.002
23:00-00:00	0.002	0.002	0.002	0.001	0.001	0.001	0.002
00:00-01:00	0.002	0.002	0.004	0.005	0.001	0.001	0.001
01:00-02:00	0.002	0.002	0.005	0.002	0.001	0.002	0.002
02:00-03:00	0.002	0.002	0.002	0.003	0.002	0.002	0.001
03:00-04:00	0.002	0.001	0.004	0.004	0.001	0.002	0.001
04:00-05:00	0.002	0.001	0.004	0.001	0.002	0.002	0.002
05:00-06:00	0.002	0.002	0.004	0.001	0.001	0.002	0.002
06:00-07:00	0.001	0.001	0.004	0.002	0.002	0.001	0.001
07:00-08:00	0.001	0.001	0.002	0.001	0.001	0.001	0.002
08:00-09:00	0.002	0.002	0.003	0.002	0.002	0.002	0.001
09:00-10:00	0.002	0.002	0.004	0.002	0.002	0.001	0.001
1 hr-Minimum	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
1 hr-Maximum	**0.002**	**0.002**	**0.005**	**0.005**	**0.002**	**0.002**	**0.002**
Average 24 hr	**0.002**	**0.001**	**0.002**	**0.003**	**0.002**	**0.001**	**0.001**
Standard[1/] (avg. 1 hr)	**≤0.30**						
Standard[2/] (avg. 24 hr)	**≤0.12**						

Analytical Method : - UV Fluorescence Method
Sources : [1/] Notification of the National Environment Board No.21, B.E.2544 (2001), published in the Royal Government Gazette, Vol.118, Special Part 39D, dated April 30, B.E. 2544 (2001).
[2/] Notification of the National Environment Board No.24, B.E.2547 (2004), published in the Roya[redacted]pecial Part 104D, dated September 22, B.E. 2547 (2004).

(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 001-4 (Page 1 of 6) Issued date : August 21, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : บ้านห้วยไคร้ (ทิศเหนือของพื้นที่โครงการ) (UTM47Q 0591918E, 1943050N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Date	TSP (mg/m^3)	PM-10 (mg/m^3)	PM-2.5 (µg/m^3)
July 1-2, 2025	0.037	0.020	6.0
July 2-3, 2025	0.031	0.015	8.5
July 3-4, 2025	0.028	0.015	6.5
July 4-5, 2025	0.033	0.015	6.9
July 5-6, 2025	0.045	0.022	10.0
July 6-7, 2025	0.054	0.016	8.1
July 7-8, 2025	0.030	0.013	6.8
Standard[1/]	**≤0.33**	**≤0.12**	**≤37.5**[2/]

Remark : - Sampling and analytical technique for PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.
Sources : [1/] Notification of the National Environment Board No.24, B.E.2547 (2004), published in the Royal Government Gazette, Vol.121, Special Part 104D, dated September 22, B.E. 2547 (2004).
[2/] Notification of the National Environment Board, B.E. 2565 (2022), published in the Royal Government Gazette, Vol.139, Special Part 163D, dated July 8, B.E. 2565 (2022).

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(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: D3F143F3-5BA6-40BC-8270-2BB8880A5717

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : บ้านห้วยไคร้ (ทิศเหนือของพื้นที่โครงการ) (UTM47Q 0591918E, 1943050N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Time	NO_2 Concentration (ppm)						
	July 1-2, 2025	July 2-3, 2025	July 3-4, 2025	July 4-5, 2025	July 5-6, 2025	July 6-7, 2025	July 7-8, 2025
10:00-11:00	0.006	0.003	0.005	0.005	0.003	0.004	0.003
11:00-12:00	0.007	0.002	0.005	0.005	0.007	0.006	0.004
12:00-13:00	0.010	0.002	0.007	0.006	0.006	0.004	0.004
13:00-14:00	0.009	0.007	0.008	0.005	0.005	0.005	0.005
14:00-15:00	0.009	0.009	0.006	0.004	0.004	0.005	0.003
15:00-16:00	0.007	0.006	0.005	0.004	0.005	0.005	0.003
16:00-17:00	0.012	0.006	0.005	0.008	0.005	0.004	0.004
17:00-18:00	0.009	0.006	0.003	0.003	0.002	0.004	0.005
18:00-19:00	0.007	0.006	0.001	0.003	0.002	0.003	0.007
19:00-20:00	0.007	0.005	0.002	0.003	0.001	0.004	0.005
20:00-21:00	0.005	0.002	0.002	0.003	0.002	0.002	0.004
21:00-22:00	0.007	0.004	0.003	0.003	0.003	0.002	0.005
22:00-23:00	0.007	0.002	0.002	0.003	0.002	0.002	0.004
23:00-00:00	0.006	0.002	0.002	0.002	0.002	0.003	0.003
00:00-01:00	0.006	0.002	0.001	0.002	0.002	0.003	0.003
01:00-02:00	0.005	0.001	0.001	0.001	0.001	0.001	0.001
02:00-03:00	0.004	0.002	0.001	0.001	0.001	0.001	0.001
03:00-04:00	0.003	0.001	0.001	0.001	0.002	0.001	0.001
04:00-05:00	0.003	0.002	0.002	0.001	0.001	0.001	0.001
05:00-06:00	0.002	0.002	0.001	0.001	0.001	0.001	0.001
06:00-07:00	0.002	0.003	0.001	0.002	0.002	0.002	0.002
07:00-08:00	0.003	0.004	0.002	0.003	0.004	0.004	0.003
08:00-09:00	0.007	0.004	0.006	0.005	0.003	0.004	0.005
09:00-10:00	0.004	0.008	0.006	0.005	0.003	0.004	0.007
1 hr.-Minimum	**0.002**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
1 hr.-Maximum	**0.012**	**0.009**	**0.008**	**0.008**	**0.007**	**0.006**	**0.007**
Standard[1/] (avg. 1)	**≤0.17**						

Analytical Method : - Chemiluminescence Method.
Source : [1/] Notification of the National Environment Board No.33, B.E.2552 (2009), published in the Royal Government Gazette, Vol.126, Special Part 114D, dated August 14, B.E. 2552 (2009).

[redacted]
(Thepsan Yommana)
Technical Manager

SGS (THAILAND) LIMITED

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Docusign Envelope ID: D3F143F3-5BA6-40BC-8270-2BB8880A5717

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : บ้านห้วยไคร้ (ทิศเหนือของพื้นที่โครงการ) (UTM47Q 0591918E, 1943050N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Time	SO_2 Concentration (ppm)						
	July 1-2, 2025	July 2-3, 2025	July 3-4, 2025	July 4-5, 2025	July 5-6, 2025	July 6-7, 2025	July 7-8, 2025
10:00-11:00	0.002	0.002	0.003	0.002	0.002	0.003	0.003
11:00-12:00	0.001	0.003	0.002	0.002	0.002	0.001	0.003
12:00-13:00	0.004	0.001	0.003	0.002	0.001	0.002	0.001
13:00-14:00	0.002	0.004	0.003	0.002	0.001	0.001	0.002
14:00-15:00	0.002	0.003	0.003	0.001	0.003	0.003	0.002
15:00-16:00	0.001	0.002	0.001	0.003	0.003	0.003	0.001
16:00-17:00	0.004	0.001	0.002	0.003	0.001	0.001	0.001
17:00-18:00	0.002	0.002	0.001	0.002	0.003	0.001	0.001
18:00-19:00	0.003	0.004	0.002	0.003	0.003	0.003	0.001
19:00-20:00	0.003	0.004	0.002	0.003	0.003	0.001	0.001
20:00-21:00	0.004	0.003	0.002	0.003	0.003	0.002	0.002
21:00-22:00	0.003	0.002	0.002	0.001	0.001	0.002	0.001
22:00-23:00	0.003	0.001	0.003	0.001	0.003	0.001	0.002
23:00-00:00	0.002	0.001	0.001	0.001	0.002	0.002	0.003
00:00-01:00	0.003	0.002	0.001	0.002	0.003	0.002	0.002
01:00-02:00	0.003	0.003	0.003	0.002	0.001	0.002	0.001
02:00-03:00	0.004	0.003	0.001	0.001	0.003	0.003	0.001
03:00-04:00	0.002	0.002	0.003	0.003	0.002	0.003	0.002
04:00-05:00	0.003	0.002	0.001	0.002	0.003	0.002	0.003
05:00-06:00	0.001	0.004	0.002	0.001	0.002	0.001	0.001
06:00-07:00	0.001	0.004	0.001	0.002	0.003	0.001	0.002
07:00-08:00	0.003	0.004	0.001	0.002	0.003	0.001	0.001
08:00-09:00	0.004	0.003	0.001	0.003	0.003	0.001	0.001
09:00-10:00	0.002	0.001	0.002	0.002	0.002	0.003	0.001
1 hr-Minimum	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**
1 hr-Maximum	**0.004**	**0.004**	**0.003**	**0.003**	**0.003**	**0.003**	**0.003**
Average 24 hrs	**0.003**	**0.003**	**0.002**	**0.002**	**0.002**	**0.002**	**0.002**
Standard[1/] (avg. 1 hr)	**≤0.30**						
Standard[2/] (avg. 24 hr)	**≤0.12**						

Analytical Method : - UV Fluorescence Method
Sources : [1/] Notification of the National Environment Board No.21, B.E.2544 (2001), published in the Royal Government Gazette, Vol.118, Special Part 39D, dated April 30, B.E. 2544 (2001).
[2/] Notification of the National Environment Board No.24, B.E.2547 (2004), published in the Roya[redacted]pecial Part 104D, dated September 22, B.E. 2547 (2004).

(Thepsan Yommana)
Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2025-500004791-1 / 001-4 (Page 4 of 6) Issued date : August 21, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : บ้านห้วยไคร้ (ทิศเหนือของพื้นที่โครงการ) (UTM47Q 0591918E, 1943050N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

TIME	July 1-2, 2025		July 2-3, 2025		July 3-4, 2025		July 4-5, 2025		July 5-6, 2025		July 6-7, 2025		July 7-8, 2025	
	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)	WD	WS (m/s)
10:00-11:00	SE	1.3	-	CALM	E	0.9	-	CALM	-	CALM	ESE	0.9	S	0.9
11:00-12:00	SSW	1.3	E	0.9	SE	1.3	S	0.9	-	CALM	SSW	2.2	E	1.3
12:00-13:00	S	1.8	ESE	0.9	SE	1.3	SE	0.9	ESE	0.9	S	2.2	E	1.3
13:00-14:00	SW	1.8	ENE	0.9	SE	0.9	ESE	0.9	S	1.3	S	1.8	ESE	1.3
14:00-15:00	SSW	1.3	E	1.3	ESE	1.3	S	0.9	S	1.3	S	1.3	E	1.3
15:00-16:00	SSW	1.3	-	CALM	ESE	1.8	ESE	0.9	S	1.8	SSE	1.8	S	1.3
16:00-17:00	SSW	1.8	-	CALM	ESE	1.3	ESE	1.3	SSW	1.3	S	1.8	S	0.9
17:00-18:00	S	1.3	W	1.3	-	CALM	S	0.9	S	1.3	S	1.3	SSW	1.8
18:00-19:00	S	1.8	-	CALM	-	CALM	ESE	0.9	S	1.3	SSE	0.9	SSW	1.8
19:00-20:00	-	CALM	-	CALM	-	CALM	ESE	0.9	S	0.9	SSE	0.9	SW	1.8
20:00-21:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	SSE	0.9	-	CALM
21:00-22:00	NNE	0.9	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
22:00-23:00	-	CALM	ESE	0.9	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
23:00-00:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
00:00-01:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	N	0.9	-	CALM
01:00-02:00	-	CALM	E	0.9	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
02:00-03:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
03:00-04:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
04:00-05:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
05:00-06:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
06:00-07:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
07:00-08:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
08:00-09:00	-	CALM	ESE	0.9	-	CALM	-	CALM	E	0.9	E	0.9	-	CALM
09:00-10:00	-	CALM	ESE	0.9	-	CALM	-	CALM	E	0.9	ESE	0.9	SSW	1.3

Measurement Method : - Wind Speed and Wind Direction recording meter
Remarks : - WS = Wind Speed
- WD = Wind Direction

[redacted]
(Thepsan Yommana)
Technical Manager

SGS (THAILAND) LIMITED

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ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : บ้านห้วยไคร้ (ทิศเหนือของพื้นที่โครงการ) (UTM47Q 0591918E, 1943050N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

Wind Speed / Wind Direction	Percent of Wind Speed (%)				
	0.5-1.0 m/s	1.1-2.0 m/s	2.1-3.0 m/s	3.1-4.0 m/s	>4.0 m/s
N	0.60	-	-	-	-
NNE	0.60	-	-	-	-
NE	-	-	-	-	-
ENE	0.60	-	-	-	-
E	3.57	2.38	-	-	-
ESE	6.55	2.98	-	-	-
SE	1.19	1.79	-	-	-
SSE	1.79	0.60	-	-	-
S	3.57	7.74	0.60	-	-
SSW	-	4.76	0.60	-	-
SW	-	1.19	-	-	-
WSW	-	-	-	-	-
W	-	0.60	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	**58.33**				

[redacted]
(Thepsan Yommana)
Technical Manager

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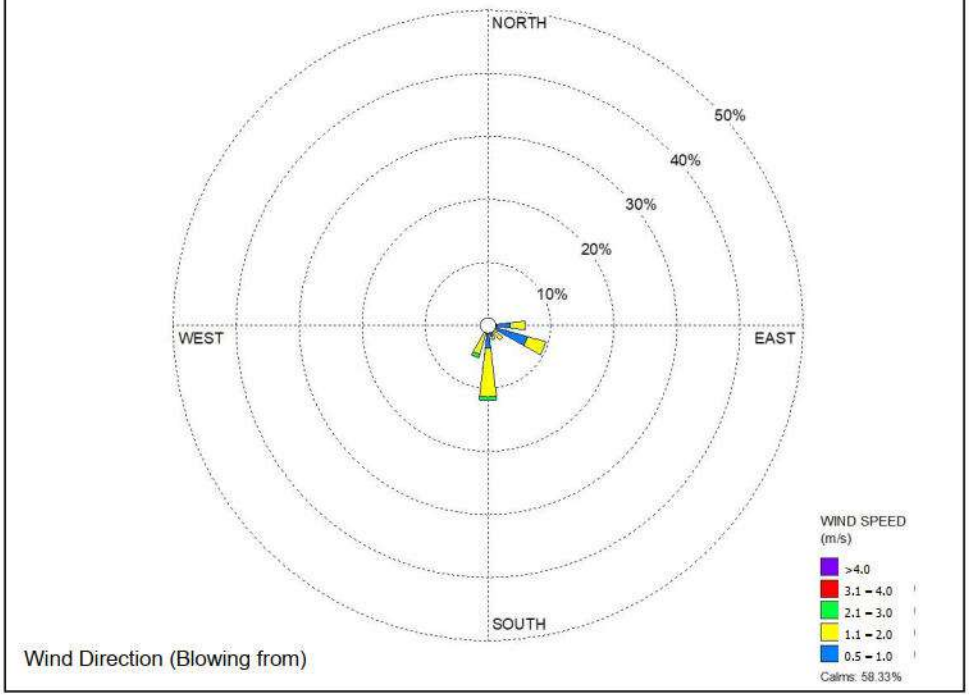
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CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : July 1-8, 2025
SAMPLING LOCATION : บ้านห้วยไคร้ (ทิศเหนือของพื้นที่โครงการ) (UTM47Q 0591918E, 1943050N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Nopparut Jampakrum

WIND ROSE PLOT
Station Name : บ้านห้วยไคร้ (ทิศเหนือของพื้นที่โครงการ)
Sampling Date : July 1-8, 2025



(Thepsan Yommana)
Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2025-500004791-4 / 001-1 (Page 1 of 2) **Issued date:** October 21, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Ambient Noise
Measurement Location : บ้านห้วยไคร้ (UTM47Q 591936E, 1943028N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541087
Measurement Date : September 25-October 2, 2025
Measured By : Kittikhun Thaseephet

Time	Sound Level [dB(A)]												Standard[1/2/]
	September 25-26, 2025			September 26-27, 2025			September 27-28, 2025			September 28-29, 2025			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
12:00-13:00	47.7	63.5	38.1	41.8	58.2	39.9	43.2	59.7	39.0	43.3	59.5	38.2	
13:00-14:00	42.6	57.7	40.3	42.4	54.8	40.5	43.4	65.2	39.7	50.0	74.8	39.5	
14:00-15:00	45.4	58.5	43.0	44.0	66.4	40.2	41.7	51.9	40.2	41.7	60.8	38.4	
15:00-16:00	47.8	62.3	41.9	42.9	55.2	41.3	45.8	66.1	40.7	44.7	56.7	40.1	
16:00-17:00	46.1	64.1	43.8	46.7	70.7	42.2	45.2	66.9	42.2	47.1	72.2	42.2	
17:00-18:00	49.0	68.8	45.0	57.1	83.3	41.0	74.4	90.5	46.0	46.8	67.8	42.6	
18:00-19:00	56.1	62.2	48.1	56.4	67.6	51.7	66.2	85.4	46.5	60.9	71.3	53.2	
19:00-20:00	56.0	60.7	52.1	49.5	61.4	46.1	56.2	65.0	53.5	56.9	62.4	54.5	
20:00-21:00	51.3	57.8	50.6	52.3	68.0	45.4	52.7	58.2	51.0	52.8	57.1	51.4	
21:00-22:00	51.2	57.8	50.0	54.1	66.1	46.3	52.2	56.0	51.0	51.4	55.1	50.5	
22:00-23:00	52.7	66.4	52.0	56.1	63.2	52.8	51.7	54.3	50.8	52.1	64.4	51.0	
23:00-00:00	52.1	58.9	51.6	55.6	59.0	54.0	51.4	53.2	50.9	52.6	55.9	51.3	
00:00-01:00	52.1	54.7	51.4	52.2	57.0	51.0	53.8	55.8	53.2	51.7	55.0	50.6	
01:00-02:00	51.5	68.4	50.5	51.4	59.1	50.6	52.8	56.5	52.0	51.9	53.7	51.3	
02:00-03:00	51.3	56.6	50.8	51.4	53.0	50.0	51.7	59.9	51.1	51.4	56.3	50.9	
03:00-04:00	50.7	57.0	50.0	51.9	55.9	51.6	51.6	56.0	49.6	51.5	70.5	50.1	
04:00-05:00	50.7	55.6	50.1	52.3	59.0	51.6	50.8	54.3	49.9	51.1	54.8	49.7	
05:00-06:00	50.7	62.1	49.9	50.2	60.9	48.9	51.0	58.7	48.4	49.8	68.5	47.0	
06:00-07:00	49.6	65.9	48.7	50.5	60.6	45.8	68.6	80.6	48.8	50.4	72.0	47.4	
07:00-08:00	49.9	65.6	48.4	51.3	61.5	47.5	62.1	77.1	45.1	50.3	62.4	47.8	
08:00-09:00	47.3	59.0	46.2	52.3	68.0	49.7	61.2	72.4	45.0	47.5	68.6	43.9	
09:00-10:00	46.9	63.3	43.3	51.3	70.5	48.8	59.2	74.4	40.3	41.7	57.1	39.9	
10:00-11:00	44.3	60.0	40.9	49.2	68.5	44.6	52.5	67.2	41.2	45.5	66.9	38.7	
11:00-12:00	44.5	64.5	38.9	46.0	62.5	41.7	46.8	73.2	39.5	39.5	48.9	37.8	
Leq 24 hrs.	**50.8**	-	-	**52.1**	-	-	**62.8**	-	-	**52.0**	-	-	**70**
Ldn	**57.6**	-	-	**59.1**	-	-	**67.0**	-	-	**58.0**	-	-	-
Lmax	-	**68.8**	-	-	**83.3**	-	-	**90.5**	-	-	**74.8**	-	**115**
L90	-	-	**42.2**	-	-	**42.0**	-	-	**41.4**	-	-	**40.1**	-

Sources: [1/] Notification of the National Environment Board No.15, B.E. 2540 (1997), published in the Royal Government Gazette, Vol.114, Special Part 27D, dated April 3, B.E. 2540 (1997).
[2/] Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager
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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Report No. : 2025-500004791-4 / 001-1 (Page 2 of 2) **Issued date:** October 21, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Ambient Noise
Measurement Location : บ้านห้วยไคร้ (UTM47Q 591936E, 1943028N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541087
Measurement Date : September 25-October 2, 2025
Measured By : Kittikhun Thaseephet

Time	Sound Level [dB(A)]									Standard[1/2/]
	September 29-30, 2025			September 30-October 1, 2025			October 1-2, 2025			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
12:00-13:00	45.5	64.6	38.5	47.0	67.8	40.8	45.8	68.2	40.0	
13:00-14:00	44.7	66.4	39.0	44.9	64.4	40.8	43.8	69.1	37.1	
14:00-15:00	44.4	55.8	41.2	52.8	75.8	40.7	46.0	68.1	37.7	
15:00-16:00	45.5	73.7	40.7	48.4	72.9	41.0	46.0	67.1	39.4	
16:00-17:00	43.4	64.4	40.9	54.8	71.4	40.8	46.7	66.4	41.9	
17:00-18:00	50.4	78.1	42.3	46.7	63.7	43.6	46.6	63.6	43.3	
18:00-19:00	55.8	60.4	44.0	56.1	68.5	45.9	66.4	70.3	50.2	
19:00-20:00	55.6	59.0	53.0	51.1	67.7	44.6	64.1	69.2	57.8	
20:00-21:00	52.6	64.3	50.7	60.6	73.0	43.8	57.3	61.0	56.2	
21:00-22:00	50.7	58.5	49.7	62.3	64.7	57.7	63.5	72.6	54.0	
22:00-23:00	53.0	56.5	51.3	64.0	65.4	63.2	59.9	72.2	53.7	
23:00-00:00	53.4	56.7	51.7	61.7	63.9	59.3	59.3	70.4	52.0	
00:00-01:00	51.6	53.3	50.8	56.7	60.1	54.3	52.1	57.0	50.7	
01:00-02:00	51.6	54.1	49.8	54.4	58.5	49.1	49.9	55.4	48.7	
02:00-03:00	52.7	62.1	51.9	52.1	57.4	49.5	51.7	65.6	49.9	
03:00-04:00	52.2	58.5	50.6	52.2	59.9	49.9	49.4	51.8	48.2	
04:00-05:00	51.4	60.3	47.6	52.1	60.3	51.1	48.0	51.8	46.7	
05:00-06:00	49.5	58.3	47.0	50.6	63.0	48.3	48.6	67.1	44.6	
06:00-07:00	54.6	71.5	47.4	48.8	66.6	45.6	53.5	76.6	45.6	
07:00-08:00	55.2	67.1	44.7	50.2	66.2	48.1	47.9	60.0	45.4	
08:00-09:00	50.2	67.1	46.3	48.6	68.7	43.8	50.5	74.4	40.6	
09:00-10:00	52.2	72.6	44.8	50.9	70.3	45.5	48.6	71.0	38.7	
10:00-11:00	47.7	63.2	43.5	50.1	65.7	46.9	47.0	68.8	37.3	
11:00-12:00	46.6	67.0	41.5	48.5	68.4	41.5	46.7	68.4	38.2	
Leq 24 hrs.	**51.7**	-	-	**56.2**	-	-	**57.3**	-	-	**70**
Ldn	**58.7**	-	-	**63.9**	-	-	**61.9**	-	-	-
Lmax	-	**78.1**	-	-	**75.8**	-	-	**76.6**	-	**115**
L90	-	-	**41.9**	-	-	**42.1**	-	-	**39.7**	-

Sources: 1/ Notification of the National Environment Board No.15, B.E. 2540 (1997), published in the Royal Government Gazette, Vol.114, Special Part 27D, dated April 3, B.E. 2540 (1997).
2/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-4 / 001-2 (Page 1 of 2) **Issued date:** October 21, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Ambient Noise
Measurement Location : บ้านห้วยสัก หมู่ที่ 9 (UTM47Q 589155E, 1942254N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00652277
Measurement Date : September 25-October 2, 2025
Measured By : Kittikhun Thaseephet

Time	Sound Level [dB(A)]												Standard[1/2/]
	September 25-26, 2025			September 26-27, 2025			September 27-28, 2025			September 28-29, 2025			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
13:00-14:00	51.2	70.7	40.9	47.3	66.2	39.2	49.3	67.9	42.1	47.1	62.4	39.8	
14:00-15:00	46.1	62.4	38.4	47.2	62.6	35.7	53.6	74.7	42.1	47.9	70.2	38.0	
15:00-16:00	43.1	64.3	35.6	50.6	70.2	39.2	55.5	79.0	42.9	49.0	63.4	42.3	
16:00-17:00	50.5	71.8	39.9	51.8	72.1	44.4	54.5	78.4	48.4	48.8	66.5	43.4	
17:00-18:00	43.3	62.8	38.4	53.6	72.6	43.2	51.0	65.6	46.3	45.8	65.7	40.0	
18:00-19:00	46.7	62.3	38.0	47.8	66.0	41.3	50.1	79.2	40.8	43.8	64.5	40.0	
19:00-20:00	49.3	70.5	39.9	52.8	73.1	43.7	49.8	68.0	42.8	47.6	66.4	45.1	
20:00-21:00	44.1	61.4	39.8	49.9	67.6	43.4	46.8	66.7	42.3	46.1	60.3	44.9	
21:00-22:00	44.5	58.2	42.8	50.3	63.6	40.8	45.1	60.0	42.9	46.2	64.2	45.2	
22:00-23:00	45.6	60.7	44.5	66.5	79.5	44.6	49.9	59.4	44.8	50.4	61.4	48.4	
23:00-00:00	46.0	58.5	45.0	54.4	61.5	51.0	51.7	56.4	50.5	50.5	62.9	48.6	
00:00-01:00	48.5	63.7	47.0	58.2	66.1	53.6	49.1	60.2	47.3	49.0	54.1	48.0	
01:00-02:00	47.8	53.5	47.0	51.5	56.6	49.2	49.7	55.1	48.6	47.8	55.4	46.7	
02:00-03:00	47.2	55.4	46.4	47.6	66.1	45.2	51.0	63.2	50.0	46.8	50.5	45.7	
03:00-04:00	44.4	54.9	43.5	48.7	57.6	45.1	50.0	65.4	48.5	45.3	51.5	42.8	
04:00-05:00	43.3	50.6	42.4	49.5	58.8	47.8	47.1	59.0	46.3	44.6	60.7	41.7	
05:00-06:00	42.7	59.1	41.1	49.7	62.7	47.2	46.5	60.6	44.4	50.0	63.7	42.7	
06:00-07:00	46.9	63.2	42.1	55.0	65.4	49.1	53.5	77.4	47.3	53.3	75.4	47.5	
07:00-08:00	51.5	64.9	47.1	58.3	66.9	56.1	58.7	73.3	51.1	52.6	70.2	45.2	
08:00-09:00	51.4	69.4	47.2	57.6	71.2	55.2	60.1	81.8	45.1	52.2	73.6	44.9	
09:00-10:00	58.4	74.7	45.1	57.7	85.9	52.8	52.4	74.0	43.5	52.3	72.2	43.1	
10:00-11:00	50.7	62.8	44.4	54.1	76.3	46.6	57.8	74.7	44.4	54.1	73.4	46.2	
11:00-12:00	52.3	71.5	44.1	53.9	74.0	47.9	51.7	66.1	46.2	51.5	66.7	45.0	
12:00-13:00	51.1	70.0	43.5	52.8	72.8	44.7	51.3	68.8	42.6	50.8	68.8	42.2	
Leq 24 hrs.	**49.8**	-	-	**56.1**	-	-	**53.3**	-	-	**49.8**	-	-	**70**
Ldn	**53.7**	-	-	**64.3**	-	-	**57.6**	-	-	**55.9**	-	-	-
Lmax	-	**74.7**	-	-	**85.9**	-	-	**81.8**	-	-	**75.4**	-	**115**
L90	-	-	**40.9**	-	-	**43.6**	-	-	**43.9**	-	-	**42.3**	-

Sources: [1/] Notification of the National Environment Board No.15, B.E. 2540 (1997), published in the Royal Government Gazette, Vol.114, Special Part 27D, dated April 3, B.E. 2540 (1997).
[2/] Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

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(Thepsan Yommana)
Technical Manager
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Report No. : 2025-500004791-4 / 001-2 (Page 2 of 2) **Issued date:** October 21, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Ambient Noise
Measurement Location : บ้านห้วยสัก หมู่ที่ 9 (UTM47Q 589155E, 1942254N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00652277
Measurement Date : September 25-October 2, 2025
Measured By : Kittikhun Thaseephet

Time	Sound Level [dB(A)]									Standard[1/2/]
	September 29-30, 2025			September 30-October 1, 2025			October 1-2, 2025			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
13:00-14:00	46.8	70.2	37.9	51.9	66.5	45.5	49.2	66.9	38.9	
14:00-15:00	47.4	63.3	40.6	50.8	73.0	41.6	51.0	77.6	40.2	
15:00-16:00	49.5	63.4	45.4	55.4	77.1	41.9	48.3	67.1	39.2	
16:00-17:00	47.5	66.5	41.8	56.9	83.8	42.2	48.0	64.9	40.0	
17:00-18:00	49.1	67.1	41.8	51.8	68.9	42.7	53.0	71.9	45.2	
18:00-19:00	47.1	68.6	39.4	46.3	65.0	40.0	48.0	65.3	42.6	
19:00-20:00	45.3	61.6	43.2	56.5	74.6	42.7	45.5	56.5	43.7	
20:00-21:00	46.2	60.3	45.0	60.8	78.5	41.7	49.6	66.7	47.5	
21:00-22:00	45.4	55.9	42.6	52.8	59.1	47.3	53.8	59.9	52.8	
22:00-23:00	42.7	58.8	39.9	55.0	62.6	53.2	52.7	67.2	50.1	
23:00-00:00	46.4	59.3	45.1	52.5	78.0	48.9	50.4	60.9	49.0	
00:00-01:00	47.1	56.6	45.0	50.0	59.9	49.0	50.9	63.8	50.2	
01:00-02:00	47.5	58.8	46.9	50.0	57.8	49.2	51.8	55.5	51.2	
02:00-03:00	47.3	67.0	46.8	51.8	59.1	51.2	51.6	56.3	51.2	
03:00-04:00	46.8	60.9	45.7	54.4	63.9	51.8	51.3	61.2	50.6	
04:00-05:00	51.5	65.4	44.8	57.4	65.9	53.2	50.4	62.2	49.1	
05:00-06:00	48.8	62.5	44.6	59.5	66.3	54.0	51.5	66.8	48.9	
06:00-07:00	56.5	77.4	51.3	56.0	72.4	51.5	57.2	81.1	52.1	
07:00-08:00	61.5	81.8	51.9	58.7	86.4	50.5	53.4	74.6	47.9	
08:00-09:00	51.0	66.8	42.1	55.6	85.7	45.5	53.2	66.1	48.6	
09:00-10:00	56.9	85.3	44.3	51.2	66.5	42.9	51.5	67.1	43.9	
10:00-11:00	54.2	80.7	41.1	56.1	78.1	43.4	48.8	64.9	38.7	
11:00-12:00	51.8	68.7	43.8	57.9	70.6	42.2	51.1	76.6	44.8	
12:00-13:00	47.8	62.1	41.8	49.7	64.6	41.8	49.1	65.0	45.9	
Leq 24 hrs.	**52.2**	-	-	**55.5**	-	-	**51.6**	-	-	**70**
Ldn	**57.1**	-	-	**61.6**	-	-	**58.8**	-	-	-
Lmax	-	**85.3**	-	-	**86.4**	-	-	**81.1**	-	**115**
L90	-	-	**42.0**	-	-	**43.1**	-	-	**43.9**	-

Sources: 1/ Notification of the National Environment Board No.15, B.E. 2540 (1997), published in the Royal Government Gazette, Vol.114, Special Part 27D, dated April 3, B.E. 2540 (1997).
2/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

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(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-4 / 001-3 (Page 1 of 2) **Issued date:** October 21, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Ambient Noise
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศเหนือ (UTM47Q 591676E, 1942927N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541050
Measurement Date : September 25-October 2, 2025
Measured By : Kittikhun Thaseephet

Time	Sound Level [dB(A)]												Standard[1/2/]
	September 25-26, 2025			September 26-27, 2025			September 27-28, 2025			September 28-29, 2025			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
11:00-12:00	48.2	64.2	40.9	44.7	55.9	42.2	41.2	53.7	40.0	46.0	50.0	44.3	
12:00-13:00	40.7	50.7	39.3	42.3	53.3	41.1	40.6	51.3	38.8	44.2	54.0	43.7	
13:00-14:00	42.8	52.7	41.2	43.3	57.6	41.2	41.5	58.8	39.8	47.5	60.7	44.7	
14:00-15:00	44.8	63.1	42.3	44.9	56.2	41.7	40.5	54.5	39.3	51.2	60.4	44.1	
15:00-16:00	43.7	51.8	41.8	42.5	64.4	39.1	41.3	55.0	39.7	45.8	53.9	44.4	
16:00-17:00	43.8	50.4	42.7	42.0	52.1	37.7	41.9	52.7	40.0	46.9	58.7	44.3	
17:00-18:00	45.2	58.0	42.0	55.6	81.9	38.9	44.7	56.8	41.1	45.2	69.9	42.9	
18:00-19:00	46.4	55.8	43.2	57.2	72.4	52.4	45.5	54.4	43.8	48.3	72.5	43.8	
19:00-20:00	48.8	56.7	47.9	49.9	62.4	45.9	45.0	56.2	42.5	50.2	57.0	49.3	
20:00-21:00	52.9	61.0	47.4	55.3	82.2	46.0	44.9	56.2	43.3	50.4	56.4	48.8	
21:00-22:00	55.9	63.8	52.9	54.9	65.6	46.7	46.6	61.5	44.7	54.1	60.7	51.6	
22:00-23:00	58.4	64.5	54.9	59.9	66.0	56.8	49.4	65.4	48.1	58.1	62.5	56.7	
23:00-00:00	55.4	63.5	49.1	57.8	64.3	54.3	48.9	54.9	46.5	56.4	61.2	53.8	
00:00-01:00	48.0	59.0	46.5	51.5	61.6	46.1	52.3	83.3	44.8	52.7	58.5	51.2	
01:00-02:00	46.4	62.2	43.9	48.7	59.0	46.5	59.7	75.1	52.0	49.9	54.0	48.5	
02:00-03:00	47.3	62.2	44.0	50.0	64.1	46.4	51.2	56.4	43.8	46.3	53.2	43.2	
03:00-04:00	49.1	66.8	47.6	50.6	63.9	43.8	52.9	67.3	44.6	46.9	67.8	43.9	
04:00-05:00	47.2	59.7	42.8	44.8	58.3	42.1	47.5	58.3	43.9	47.9	58.4	45.9	
05:00-06:00	42.7	54.9	40.9	42.9	53.6	42.2	55.2	65.9	45.7	48.0	52.8	46.3	
06:00-07:00	42.7	56.6	40.0	49.4	64.4	41.9	48.6	57.7	47.3	50.4	59.0	48.3	
07:00-08:00	44.1	63.0	41.1	50.2	61.9	41.7	47.2	56.4	45.0	48.2	57.2	46.6	
08:00-09:00	43.7	55.9	40.7	41.9	54.3	40.1	48.7	52.3	46.4	63.0	65.5	52.7	
09:00-10:00	45.7	70.7	41.8	42.5	56.8	40.4	48.5	56.7	46.8	52.5	58.2	51.2	
10:00-11:00	44.3	55.2	41.7	41.7	63.0	39.9	47.0	52.0	45.1	39.4	49.0	37.1	
Leq 24 hrs.	**50.0**	-	-	**52.3**	-	-	**50.3**	-	-	**53.0**	-	-	**70**
Ldn	**57.9**	-	-	**59.9**	-	-	**59.4**	-	-	**59.2**	-	-	-
Lmax	-	**70.7**	-	-	**82.2**	-	-	**83.3**	-	-	**72.5**	-	**115**
L90	-	-	**41.4**	-	-	**40.7**	-	-	**40.4**	-	-	**43.9**	-

Sources: [1/] Notification of the National Environment Board No.15, B.E. 2540 (1997), published in the Royal Government Gazette, Vol.114, Special Part 27D, dated April 3, B.E. 2540 (1997).
[2/] Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager
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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Report No. : 2025-500004791-4 / 001-3 (Page 2 of 2) **Issued date:** October 21, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Ambient Noise
Measurement Date : September 25-October 2, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศเหนือ (UTM47Q 591676E, 1942927N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541050

Time	Sound Level [dB(A)]									Standard[1/2/]
	September 29-30, 2025			September 30-October 1, 2025			October 1-2, 2025			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
11:00-12:00	39.8	46.6	37.5	41.3	49.0	40.5	40.7	52.5	38.2	
12:00-13:00	40.8	65.9	37.6	43.1	57.9	41.5	39.6	50.6	37.2	
13:00-14:00	43.7	69.2	37.6	45.0	55.1	43.9	39.2	52.1	37.5	
14:00-15:00	43.3	50.0	39.0	44.6	64.3	43.1	40.8	55.4	38.4	
15:00-16:00	43.5	59.5	40.4	45.6	66.2	43.7	41.9	52.0	40.5	
16:00-17:00	41.9	65.4	38.7	52.4	69.4	42.9	44.9	71.4	40.3	
17:00-18:00	44.5	58.7	39.7	44.0	61.2	39.4	44.2	58.0	42.6	
18:00-19:00	47.6	61.1	41.4	50.4	66.0	43.3	48.1	58.6	43.4	
19:00-20:00	53.1	55.9	49.2	54.4	70.3	46.1	53.9	58.5	49.6	
20:00-21:00	53.2	65.4	52.1	62.7	78.2	45.7	58.9	64.0	52.9	
21:00-22:00	46.3	53.4	45.5	54.4	62.4	49.3	61.6	64.3	59.5	
22:00-23:00	50.3	71.8	45.1	61.7	64.5	60.7	57.2	62.3	54.7	
23:00-00:00	47.3	63.7	44.6	59.1	64.2	55.1	55.6	60.4	52.5	
00:00-01:00	45.8	54.1	44.8	52.1	62.0	48.6	48.9	57.4	45.7	
01:00-02:00	46.2	52.2	45.3	47.6	61.2	43.4	51.7	56.6	47.1	
02:00-03:00	45.6	55.3	44.1	47.7	62.0	43.1	51.5	56.2	46.2	
03:00-04:00	46.0	59.4	44.4	51.3	64.0	44.5	47.0	62.5	43.0	
04:00-05:00	50.8	58.1	45.7	55.8	69.5	46.0	49.5	63.3	45.6	
05:00-06:00	44.6	53.4	42.9	47.4	60.5	45.3	49.3	60.7	46.1	
06:00-07:00	57.0	76.4	43.7	42.4	56.9	41.3	44.0	55.8	42.8	
07:00-08:00	57.4	77.5	44.0	45.7	62.2	41.2	42.3	58.6	40.7	
08:00-09:00	45.4	68.9	43.1	44.4	53.5	42.7	43.1	55.5	40.9	
09:00-10:00	51.1	71.0	44.7	50.6	60.9	45.3	42.6	53.0	41.6	
10:00-11:00	43.0	54.4	41.8	54.2	60.6	51.6	41.5	49.8	40.3	
Leq 24 hrs.	**49.9**	-	-	**54.3**	-	-	**52.4**	-	-	**70**
Ldn	**56.6**	-	-	**61.6**	-	-	**58.7**	-	-	-
Lmax	-	**77.5**	-	-	**78.2**	-	-	**71.4**	-	**115**
L90	-	-	**39.8**	-	-	**42.1**	-	-	**39.8**	-

Sources: 1/ Notification of the National Environment Board No.15, B.E. 2540 (1997), published in the Royal Government Gazette, Vol.114, Special Part 27D, dated April 3, B.E. 2540 (1997).
2/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Report No. : 2025-500004791-4 / 001-4 (Page 1 of 2) **Issued date:** October 21, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Ambient Noise
Measurement Date : September 25-October 2, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ทางด้านทิศใต้ (UTM47Q 592040E, 1941028N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541088

Time	Sound Level [dB(A)]												Standard[1/2/]
	September 25-26, 2025			September 26-27, 2025			September 27-28, 2025			September 28-29, 2025			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
09:00-10:00	58.3	84.0	43.0	59.0	79.6	42.1	58.8	83.4	45.7	54.4	80.2	40.0	
10:00-11:00	54.3	76.5	41.9	56.9	83.2	39.1	54.8	75.2	45.8	48.8	71.8	42.1	
11:00-12:00	58.6	80.1	42.4	60.9	86.8	43.6	59.3	79.0	45.6	51.7	72.5	42.2	
12:00-13:00	58.8	80.6	41.8	60.4	82.6	42.9	60.8	81.6	45.7	52.8	71.9	42.6	
13:00-14:00	57.3	77.6	43.7	61.5	86.3	41.5	59.2	81.6	43.9	58.4	89.2	41.2	
14:00-15:00	57.4	84.4	44.3	61.4	86.2	44.8	60.8	87.6	43.5	51.2	76.6	39.6	
15:00-16:00	62.6	88.5	40.5	57.4	81.9	42.9	56.7	84.6	43.4	52.0	75.2	41.0	
16:00-17:00	57.1	81.5	42.3	56.6	78.9	41.3	56.7	78.7	45.1	52.8	75.4	42.3	
17:00-18:00	66.4	93.5	46.0	68.2	97.6	50.2	64.3	84.9	47.7	58.3	82.9	44.4	
18:00-19:00	61.0	92.5	46.1	60.2	77.3	54.1	54.7	80.1	45.9	54.0	77.6	45.1	
19:00-20:00	58.8	82.1	51.8	59.5	79.8	49.0	58.1	82.2	53.1	57.5	81.6	52.6	
20:00-21:00	57.8	82.9	52.5	65.6	82.2	49.2	57.1	76.1	53.3	56.6	79.5	54.1	
21:00-22:00	54.8	79.0	52.6	60.6	76.1	49.4	54.6	62.4	53.8	56.0	69.8	54.5	
22:00-23:00	58.0	81.2	56.1	56.9	67.3	55.1	56.9	81.9	54.6	55.8	61.9	54.7	
23:00-00:00	56.3	74.0	55.3	54.0	72.0	52.9	54.0	71.8	53.0	58.2	74.7	56.6	
00:00-01:00	56.6	77.1	54.6	52.1	67.0	51.0	52.7	72.4	50.6	55.9	72.7	54.9	
01:00-02:00	53.9	61.5	53.1	50.8	62.1	48.5	52.1	61.7	50.8	55.4	70.7	54.5	
02:00-03:00	53.0	55.4	50.9	48.3	72.0	47.4	51.9	60.4	51.1	53.9	59.6	50.9	
03:00-04:00	50.3	58.8	48.3	50.3	70.5	47.5	52.9	73.4	50.6	46.6	57.2	40.9	
04:00-05:00	52.2	61.5	50.4	53.4	62.1	52.8	52.6	72.1	51.3	50.6	60.6	49.5	
05:00-06:00	53.7	73.2	51.7	52.8	73.4	49.0	56.9	83.3	53.5	51.7	69.4	49.6	
06:00-07:00	55.4	84.0	48.4	58.6	74.9	48.7	53.2	76.9	48.5	53.8	72.3	51.7	
07:00-08:00	64.3	82.6	55.0	66.7	84.8	60.9	58.1	79.5	47.4	55.1	77.7	50.1	
08:00-09:00	62.9	87.0	46.7	63.4	86.8	48.5	59.2	85.9	41.1	56.9	76.2	42.5	
Leq 24 hrs.	**59.3**	-	-	**61.0**	-	-	**57.8**	-	-	**55.0**	-	-	**70**
Ldn	**62.8**	-	-	**63.3**	-	-	**61.7**	-	-	**61.1**	-	-	-
Lmax	-	**93.5**	-	-	**97.6**	-	-	**87.6**	-	-	**89.2**	-	**115**
L90	-	-	**45.4**	-	-	**46.3**	-	-	**45.8**	-	-	**42.2**	-

Sources: [1/] Notification of the National Environment Board No.15, B.E. 2540 (1997), published in the Royal Government Gazette, Vol.114, Special Part 27D, dated April 3, B.E. 2540 (1997).
[2/] Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

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Technical Manager
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Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Ambient Noise
Measurement Date : September 25-October 2, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ทางด้านทิศใต้ (UTM47Q 592040E, 1941028N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541088

Time	Sound Level [dB(A)]									Standard[1/2/]
	September 29-30, 2025			September 30-October 1, 2025			October 1-2, 2025			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
09:00-10:00	58.7	80.4	44.6	61.4	80.9	49.0	60.6	81.9	48.8	
10:00-11:00	57.7	80.6	40.7	55.7	77.4	47.1	61.2	86.9	48.6	
11:00-12:00	59.4	82.5	41.1	61.7	90.2	46.5	65.7	91.9	48.2	
12:00-13:00	58.6	83.7	40.1	59.8	81.1	49.0	60.8	86.3	46.3	
13:00-14:00	66.7	99.1	41.6	61.8	86.3	48.1	61.1	84.1	45.9	
14:00-15:00	54.6	79.3	38.9	58.1	82.0	47.5	59.0	81.9	45.5	
15:00-16:00	53.7	74.7	41.2	57.9	80.5	46.5	58.7	81.9	45.3	
16:00-17:00	54.2	74.5	42.0	61.5	83.7	47.5	57.6	79.2	46.2	
17:00-18:00	64.6	89.5	49.1	64.5	83.7	51.3	64.2	84.9	48.9	
18:00-19:00	57.0	83.4	45.0	61.4	81.6	46.0	58.6	85.6	47.0	
19:00-20:00	59.5	82.9	53.8	60.3	85.2	48.0	59.3	87.9	52.5	
20:00-21:00	57.3	75.9	51.4	66.5	80.9	48.6	57.5	76.0	53.7	
21:00-22:00	56.9	68.0	50.4	58.0	78.6	54.9	56.9	82.1	54.4	
22:00-23:00	67.0	74.8	56.6	58.7	79.1	56.7	55.4	73.8	53.9	
23:00-00:00	61.7	71.0	48.7	56.2	73.8	54.7	55.4	79.5	53.3	
00:00-01:00	66.6	73.1	65.3	54.9	76.1	52.8	53.7	80.1	50.3	
01:00-02:00	65.6	68.7	49.7	52.5	67.0	51.0	53.8	79.2	48.1	
02:00-03:00	65.6	81.8	49.3	53.5	74.0	52.5	49.9	57.2	48.4	
03:00-04:00	58.9	80.7	47.0	57.1	72.7	52.6	50.5	67.3	49.4	
04:00-05:00	57.5	70.3	50.6	60.6	83.7	57.3	52.7	72.3	51.4	
05:00-06:00	61.3	73.6	53.9	60.8	76.0	58.9	55.4	77.7	53.3	
06:00-07:00	60.0	80.8	51.9	59.2	78.1	52.1	54.4	73.2	47.6	
07:00-08:00	64.9	81.5	55.6	66.9	86.4	58.6	65.1	85.0	54.3	
08:00-09:00	65.4	93.9	47.9	65.0	86.4	52.6	60.9	79.5	46.1	
Leq 24 hrs.	**62.4**	-	-	**61.3**	-	-	**59.8**	-	-	**70**
Ldn	**70.0**	-	-	**65.4**	-	-	**62.5**	-	-	-
Lmax	-	**99.1**	-	-	**90.2**	-	-	**91.9**	-	**115**
L90	-	-	**43.9**	-	-	**48.7**	-	-	**48.0**	-

Sources: [1/] Notification of the National Environment Board No.15, B.E. 2540 (1997), published in the Royal Government Gazette, Vol.114, Special Part 27D, dated April 3, B.E. 2540 (1997).
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Technical Manager

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Report No. : 2025-500004791-4 / 001-5 (Page 1 of 2) **Issued date:** October 21, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Ambient Noise
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันออก (UTM47Q 592312E, 1942119N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541049
Measurement Date : September 25-October 2, 2025
Measured By : Kittikhun Thaseephet

Time	Sound Level [dB(A)]												Standard[1/2/]
	September 25-26, 2025			September 26-27, 2025			September 27-28, 2025			September 28-29, 2025			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
10:00-11:00	57.2	59.0	57.0	57.4	61.7	57.0	57.8	61.4	57.5	57.9	59.0	57.7	
11:00-12:00	57.4	76.5	57.0	57.5	71.7	57.1	58.0	70.5	57.7	57.9	59.2	57.8	
12:00-13:00	57.5	58.8	57.1	57.8	61.1	57.4	58.0	60.0	57.8	57.8	59.4	57.5	
13:00-14:00	57.8	64.4	57.4	57.6	59.3	57.2	57.9	59.9	57.6	58.3	82.2	57.3	
14:00-15:00	57.8	59.9	56.9	57.4	58.9	57.1	58.0	69.9	57.7	57.8	60.6	57.5	
15:00-16:00	57.3	58.3	56.9	57.5	76.4	56.8	57.9	69.1	57.7	58.0	59.7	57.8	
16:00-17:00	57.6	58.9	57.2	57.9	77.9	57.1	57.6	59.2	57.3	57.9	67.0	57.7	
17:00-18:00	57.7	66.0	57.3	59.8	88.6	56.6	57.6	69.9	57.2	57.9	66.0	57.7	
18:00-19:00	57.3	58.9	56.9	58.5	70.2	57.6	57.6	59.5	57.4	57.7	67.3	57.4	
19:00-20:00	57.1	57.7	57.0	57.9	62.5	57.3	57.3	60.1	57.1	57.4	60.0	57.0	
20:00-21:00	57.5	72.0	56.9	58.4	68.2	57.5	57.8	58.6	57.5	57.3	60.1	57.1	
21:00-22:00	57.2	58.1	57.1	58.4	67.8	57.4	57.6	58.3	57.4	57.6	58.6	57.3	
22:00-23:00	57.5	58.2	57.2	58.3	63.4	58.0	57.5	58.2	57.4	57.5	58.4	57.2	
23:00-00:00	57.3	58.1	57.2	57.9	58.6	57.6	57.4	58.4	57.3	57.7	58.5	57.4	
00:00-01:00	57.4	58.3	57.0	58.1	58.9	57.7	57.8	59.2	57.6	57.6	58.5	57.3	
01:00-02:00	57.3	58.0	57.1	58.3	59.3	58.1	57.7	61.9	57.5	57.5	61.0	57.2	
02:00-03:00	57.3	58.0	57.1	58.1	58.8	57.9	57.8	61.0	57.3	57.3	58.0	57.2	
03:00-04:00	57.4	59.2	57.2	58.1	59.0	57.8	57.8	59.5	57.3	57.4	59.9	57.2	
04:00-05:00	57.2	57.9	57.0	58.1	59.2	57.9	58.6	60.1	57.6	57.3	58.9	57.1	
05:00-06:00	57.1	60.0	56.8	58.0	59.4	57.5	58.7	61.0	57.6	57.1	62.6	56.9	
06:00-07:00	57.2	66.9	57.0	57.8	62.9	57.4	57.3	65.6	57.2	56.9	61.9	56.7	
07:00-08:00	57.2	67.3	57.0	58.3	69.0	58.0	57.5	71.0	57.2	57.3	76.2	56.9	
08:00-09:00	57.2	67.8	57.0	58.1	59.6	57.9	57.5	62.3	57.3	57.8	68.8	57.5	
09:00-10:00	57.8	76.0	57.0	58.2	67.6	57.9	57.8	58.8	57.5	57.7	58.8	57.5	
Leq 24 hrs.	**57.4**	-	-	**58.1**	-	-	**57.8**	-	-	**57.6**	-	-	**70**
Ldn	**63.7**	-	-	**64.5**	-	-	**64.3**	-	-	**63.9**	-	-	-
Lmax	-	**76.5**	-	-	**88.6**	-	-	**71.0**	-	-	**82.2**	-	**115**
L90	-	-	**57.0**	-	-	**57.2**	-	-	**57.3**	-	-	**57.1**	-

Sources: [1/] Notification of the National Environment Board No.15, B.E. 2540 (1997), published in the Royal Government Gazette, Vol.114, Special Part 27D, dated April 3, B.E. 2540 (1997).
[2/] Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager
SGS (THAILAND) LIMITED

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Report No. : 2025-500004791-4 / 001-5 (Page 2 of 2) **Issued date:** October 21, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Ambient Noise
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันออก (UTM47Q 592312E, 1942119N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541049
Measurement Date : September 25-October 2, 2025
Measured By : Kittikhun Thaseephet

Time	Sound Level [dB(A)]									Standard[1/2/]
	September 29-30, 2025			September 30-October 1, 2025			October 1-2, 2025			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
10:00-11:00	58.1	77.2	57.6	62.0	84.0	57.1	58.2	70.3	57.7	
11:00-12:00	57.8	67.2	57.5	57.2	58.1	57.0	57.6	65.1	57.3	
12:00-13:00	57.8	58.7	57.6	57.2	58.6	57.0	57.6	62.4	57.3	
13:00-14:00	57.7	58.9	57.4	57.1	64.7	56.9	57.7	68.7	57.2	
14:00-15:00	57.6	58.8	57.4	57.2	61.2	57.1	66.2	80.5	58.0	
15:00-16:00	61.6	82.8	57.2	57.1	73.5	56.8	61.3	83.6	56.8	
16:00-17:00	57.9	79.6	57.1	57.7	76.2	56.8	57.4	79.4	56.9	
17:00-18:00	57.2	68.7	57.0	57.0	68.2	56.9	57.3	67.0	57.0	
18:00-19:00	57.1	59.9	56.9	57.7	67.3	57.0	57.5	61.6	57.1	
19:00-20:00	57.7	58.7	57.4	57.9	62.3	57.4	57.4	58.3	57.2	
20:00-21:00	57.3	58.4	57.0	62.2	77.0	57.7	57.4	58.6	57.3	
21:00-22:00	57.3	58.6	56.9	59.3	60.4	58.7	57.6	58.7	57.4	
22:00-23:00	56.8	59.7	56.6	59.4	62.3	59.0	57.7	58.9	57.5	
23:00-00:00	57.0	57.6	56.9	58.3	59.5	57.8	57.4	58.7	57.1	
00:00-01:00	57.2	57.8	57.0	57.9	61.9	57.8	57.5	59.1	57.3	
01:00-02:00	57.4	58.1	57.3	57.9	59.3	57.7	57.7	60.4	57.5	
02:00-03:00	57.3	62.3	57.3	58.3	66.0	57.9	57.2	59.4	57.1	
03:00-04:00	57.4	58.1	57.3	58.1	62.6	57.8	57.2	59.3	57.1	
04:00-05:00	57.7	59.6	57.4	58.5	61.1	58.1	57.2	58.9	57.0	
05:00-06:00	57.1	58.8	56.9	59.4	61.9	58.7	57.3	60.8	57.1	
06:00-07:00	57.3	63.1	57.0	57.8	64.7	57.6	57.1	58.5	56.9	
07:00-08:00	57.3	67.5	56.9	57.7	60.2	57.6	57.3	65.7	57.0	
08:00-09:00	57.7	78.3	56.8	57.8	69.3	57.6	57.8	69.7	57.3	
09:00-10:00	57.9	65.2	57.0	58.0	67.1	57.7	58.5	65.3	57.3	
Leq 24 hrs.	**57.8**	-	-	**58.5**	-	-	**58.7**	-	-	**70**
Ldn	**63.8**	-	-	**64.9**	-	-	**64.1**	-	-	-
Lmax	-	**82.8**	-	-	**84.0**	-	-	**83.6**	-	**115**
L90	-	-	**57.0**	-	-	**57.0**	-	-	**57.1**	-

Sources: [1/] Notification of the National Environment Board No.15, B.E. 2540 (1997), published in the Royal Government Gazette, Vol.114, Special Part 27D, dated April 3, B.E. 2540 (1997).
[2/] Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-4 / 001-6 (Page 1 of 2) **Issued date:** October 21, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Ambient Noise
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันตก (UTM47Q 590823E, 1942314N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-52, RION, Serial No. 00830426
Measurement Date : September 25-October 2, 2025
Measured By : Kittikhun Thaseephet

Time	Sound Level [dB(A)]												Standard[1/2/]
	September 25-26, 2025			September 26-27, 2025			September 27-28, 2025			September 28-29, 2025			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
11:00-12:00	49.9	67.3	47.6	53.6	74.9	51.0	50.5	66.7	48.3	47.1	65.6	42.8	
12:00-13:00	50.2	68.8	46.5	52.6	62.7	51.2	49.6	66.9	48.0	44.6	63.8	41.5	
13:00-14:00	52.5	66.1	48.5	52.5	68.5	44.6	53.1	70.8	48.5	50.6	70.0	43.8	
14:00-15:00	49.0	72.2	44.9	55.2	76.2	44.2	64.0	89.0	49.4	52.0	75.4	43.3	
15:00-16:00	47.4	68.3	44.4	54.2	70.4	50.9	54.0	72.5	46.6	54.4	72.4	45.3	
16:00-17:00	51.8	70.1	46.4	51.0	75.1	45.2	53.6	72.7	46.5	52.1	67.0	46.5	
17:00-18:00	55.6	79.1	48.6	56.9	79.3	52.0	55.1	78.0	47.7	56.5	80.0	49.8	
18:00-19:00	54.8	69.7	51.7	55.6	69.9	52.0	53.2	70.6	48.6	53.5	65.0	48.9	
19:00-20:00	58.5	64.9	58.2	53.9	72.6	47.9	56.7	71.9	54.8	57.5	80.5	55.4	
20:00-21:00	57.1	63.5	54.8	63.0	81.0	48.9	58.5	76.9	55.5	61.7	63.9	59.7	
21:00-22:00	61.0	67.8	55.2	58.1	77.0	50.5	59.7	75.6	58.5	61.5	66.3	59.6	
22:00-23:00	62.5	67.9	61.3	66.6	80.7	64.3	59.9	69.8	58.5	62.5	70.8	61.6	
23:00-00:00	61.9	76.7	57.9	64.6	69.3	63.3	60.8	66.9	58.5	63.6	67.8	63.0	
00:00-01:00	61.5	65.8	56.4	64.5	76.3	63.8	57.8	72.2	56.9	62.0	66.8	60.8	
01:00-02:00	56.3	71.6	52.9	62.3	71.4	52.8	57.9	71.3	54.5	57.9	68.4	55.6	
02:00-03:00	57.7	64.2	53.9	62.0	69.9	54.4	54.3	74.3	52.6	58.0	64.0	54.1	
03:00-04:00	60.1	67.9	52.8	61.9	67.5	54.6	54.0	59.4	53.4	54.1	56.8	53.1	
04:00-05:00	64.1	68.5	55.7	63.1	67.5	56.2	62.3	66.6	54.1	55.0	57.6	53.9	
05:00-06:00	60.2	81.1	55.7	57.6	78.1	55.0	62.0	77.6	57.5	59.6	80.9	56.5	
06:00-07:00	59.9	77.1	53.6	56.1	82.4	52.8	58.2	81.1	51.2	57.8	73.8	53.3	
07:00-08:00	54.4	68.6	50.0	56.5	82.0	50.6	52.8	73.5	47.3	52.1	70.4	48.1	
08:00-09:00	55.0	79.8	47.6	50.1	60.9	48.5	50.6	68.9	46.8	52.0	69.6	44.3	
09:00-10:00	49.9	72.4	46.1	51.1	64.5	48.3	53.5	73.4	46.2	48.1	69.5	43.9	
10:00-11:00	50.6	70.6	47.8	52.2	71.5	49.2	49.4	66.6	43.9	48.0	68.3	43.3	
Leq 24 hrs.	**58.2**	-	-	**60.0**	-	-	**57.8**	-	-	**57.8**	-	-	**70**
Ldn	**66.9**	-	-	**68.9**	-	-	**65.5**	-	-	**66.0**	-	-	-
Lmax	-	**81.1**	-	-	**82.4**	-	-	**89.0**	-	-	**80.9**	-	**115**
L90	-	-	**47.5**	-	-	**48.7**	-	-	**48.2**	-	-	**44.5**	-

Sources: [1/] Notification of the National Environment Board No.15, B.E. 2540 (1997), published in the Royal Government Gazette, Vol.114, Special Part 27D, dated April 3, B.E. 2540 (1997).
[2/] Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

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Technical Manager
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Report No. : 2025-500004791-4 / 001-6 (Page 2 of 2) **Issued date:** October 21, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Ambient Noise
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันตก (UTM47Q 590823E, 1942314N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-52, RION, Serial No. 00830426
Measurement Date : September 25-October 2, 2025
Measured By : Kittikhun Thaseephet

Time	Sound Level [dB(A)]									Standard[1/2/]
	September 29-30, 2025			September 30-October 1, 2025			October 1-2, 2025			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
11:00-12:00	46.0	64.3	41.8	51.7	74.1	48.3	51.5	70.2	49.3	
12:00-13:00	46.3	66.7	42.4	49.7	67.1	48.0	49.5	68.2	48.5	
13:00-14:00	51.4	72.6	45.1	53.5	75.4	49.9	54.2	72.7	49.9	
14:00-15:00	51.5	69.7	43.5	52.3	72.1	49.8	50.8	65.9	49.7	
15:00-16:00	51.7	71.2	45.6	54.0	76.0	48.0	50.7	64.2	49.5	
16:00-17:00	51.8	68.4	46.9	51.0	68.7	47.1	50.0	69.5	46.6	
17:00-18:00	56.1	79.8	49.4	56.0	79.5	49.5	54.8	78.8	48.6	
18:00-19:00	55.7	71.6	51.5	54.6	73.9	47.9	59.0	67.5	53.8	
19:00-20:00	57.6	72.3	56.8	61.4	82.6	47.5	59.7	70.2	57.7	
20:00-21:00	57.2	73.0	56.5	62.4	82.4	48.3	58.1	74.9	56.5	
21:00-22:00	56.6	68.0	56.1	52.4	75.4	49.1	62.3	72.4	60.3	
22:00-23:00	56.5	72.9	53.0	55.7	83.5	51.8	62.5	72.7	61.4	
23:00-00:00	56.9	70.5	54.7	58.2	75.7	57.2	61.3	73.0	60.9	
00:00-01:00	57.9	72.0	55.7	56.9	77.4	52.9	60.0	72.6	58.7	
01:00-02:00	56.6	73.2	54.1	54.5	77.1	51.9	58.9	71.1	57.6	
02:00-03:00	59.8	72.8	56.8	56.3	84.1	52.3	60.5	73.1	58.5	
03:00-04:00	56.4	70.9	52.8	62.8	72.6	56.1	64.8	69.0	63.2	
04:00-05:00	55.9	72.1	52.0	59.3	81.4	56.0	64.0	67.3	61.2	
05:00-06:00	60.2	81.3	58.2	60.0	79.6	56.8	66.1	79.7	62.8	
06:00-07:00	59.3	73.8	53.3	54.5	76.1	49.5	62.6	74.0	53.2	
07:00-08:00	61.2	82.7	49.5	53.9	77.9	48.6	54.6	75.0	48.1	
08:00-09:00	51.0	73.0	48.2	49.9	70.2	46.8	50.1	69.7	46.7	
09:00-10:00	57.3	82.0	51.3	52.8	68.2	50.2	49.3	72.0	46.2	
10:00-11:00	52.4	68.7	49.8	53.5	68.1	52.0	52.3	69.3	48.8	
Leq 24 hrs.	**56.6**	-	-	**57.0**	-	-	**59.9**	-	-	**70**
Ldn	**64.1**	-	-	**64.6**	-	-	**68.8**	-	-	-
Lmax	-	**82.7**	-	-	**84.1**	-	-	**79.7**	-	**115**
L90	-	-	**46.5**	-	-	**48.5**	-	-	**48.6**	-

Sources: 1/ Notification of the National Environment Board No.15, B.E. 2540 (1997), published in the Royal Government Gazette, Vol.114, Special Part 27D, dated April 3, B.E. 2540 (1997).
2/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Gazette, Vol.123, Special Part 11D, dated January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Report No. : 2025-500004791-4 / 001-7 (Page 1 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยไคร้ (N1)
(UTM47Q 591936E, 1943028N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541087
Measurement Date : September 25-26, 2025
Measured By : Kittikhun Thaseephet

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	47.7	40.1	37.7	46.9	9.2
	13:00 - 14:00	42.6	41.0	39.9	37.5	0
	14:00 - 15:00	45.4	44.0	42.6	39.8	0
	15:00 - 16:00	47.8	42.5	41.8	46.3	4.5
	16:00 - 17:00	46.1	44.4	43.5	41.2	0
	17:00 - 18:00	49.0	48.5	44.9	39.4	0
	18:00 - 19:00	56.1	53.7	51.7	52.4	0.7
	19:00 - 20:00	56.0	54.8	52.8	49.8	0
	20:00 - 21:00	51.3	51.0	50.4	39.5	0
	21:00 - 22:00	51.2	51.1	50.2	34.8	0
Night Time	22:00 - 23:00	53.9	52.5	52.1	48.3	0
	23:00 - 00:00	52.6	51.7	51.4	45.3	0
	00:00 - 01:00	52.6	51.6	51.3	45.7	0
	01:00 - 02:00	54.1	51.0	50.6	51.2	3.6
	02:00 - 03:00	51.7	51.4	50.8	39.9	0
	03:00 - 04:00	51.4	50.6	50.1	43.7	0
	04:00 - 05:00	51.3	50.4	50.0	44.0	0
	05:00 - 06:00	51.4	50.1	49.5	45.5	0
Day Time	06:00 - 07:00	49.6	49.0	48.5	40.7	0
	07:00 - 08:00	49.9	49.7	48.5	36.4	0
	08:00 - 09:00	47.3	47.0	46.6	35.5	0
	09:00 - 10:00	46.9	45.4	43.7	41.6	0
	10:00 - 11:00	44.3	41.9	40.6	40.6	0
	11:00 - 12:00	44.5	40.1	38.4	42.5	0
Standard 6/7/						**≤10**

Remarks: 1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources: 6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Governm[redacted]January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยไคร้ (N1)
(UTM47Q 591936E, 1943028N)
Measurement Date : September 26-27, 2025
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541087

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	41.8	40.5	39.3	35.9	0
	13:00 - 14:00	42.4	41.5	40.2	35.1	0
	14:00 - 15:00	44.0	43.6	40.4	33.4	0
	15:00 - 16:00	42.9	42.2	41.4	34.6	0
	16:00 - 17:00	46.7	44.5	41.7	42.7	1.0
	17:00 - 18:00	57.1	56.7	43.5	46.5	3.0
	18:00 - 19:00	56.4	53.5	52.8	53.3	0.5
	19:00 - 20:00	49.5	47.1	45.8	45.8	0
	20:00 - 21:00	52.3	47.2	46.0	50.7	4.7
	21:00 - 22:00	54.1	47.8	45.9	52.9	7.0
Night Time	22:00 - 23:00	59.6	55.6	53.1	57.4	7.3
	23:00 - 00:00	56.8	55.6	53.8	50.6	0
	00:00 - 01:00	54.3	51.7	51.3	50.8	2.5
	01:00 - 02:00	52.0	51.2	50.7	44.3	0
	02:00 - 03:00	52.3	51.6	50.2	44.0	0
	03:00 - 04:00	52.4	51.9	51.5	42.8	0
	04:00 - 05:00	53.3	52.3	51.2	46.4	0
	05:00 - 06:00	51.4	49.5	48.9	46.9	1.0
Day Time	06:00 - 07:00	50.5	48.7	47.8	45.8	0
	07:00 - 08:00	51.3	49.1	48.3	47.3	0
	08:00 - 09:00	52.3	50.2	49.0	48.1	0
	09:00 - 10:00	51.3	50.6	48.3	43.0	0
	10:00 - 11:00	49.2	45.4	44.0	46.9	2.9
	11:00 - 12:00	46.0	44.9	44.2	39.5	0
Standard 6/7/						**≤10**

Remarks: 1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources: 6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Governm[redacted] January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยไคร้ (N1)
(UTM47Q 591936E, 1943028N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541087
Measurement Date : September 27-28, 2025
Measured By : Kittikhun Thaseephet

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	43.2	40.9	39.2	39.3	0.1
	13:00 - 14:00	43.4	41.8	39.5	38.3	0
	14:00 - 15:00	41.7	41.5	39.9	28.2	0
	15:00 - 16:00	45.8	42.3	40.3	43.2	2.9
	16:00 - 17:00	45.2	42.5	41.7	41.9	0.2
	17:00 - 18:00	74.4	73.8	64.1	65.5	1.4
	18:00 - 19:00	66.2	58.4	57.4	65.4	8.0
	19:00 - 20:00	56.2	55.9	54.6	44.4	0
	20:00 - 21:00	52.7	51.6	50.8	46.2	0
	21:00 - 22:00	52.2	51.6	50.7	43.3	0
Night Time	22:00 - 23:00	52.5	51.3	50.6	46.3	0
	23:00 - 00:00	52.1	51.3	50.6	44.4	0
	00:00 - 01:00	54.3	53.9	53.0	43.7	0
	01:00 - 02:00	53.9	52.2	51.8	49.0	0.2
	02:00 - 03:00	52.4	51.8	51.0	43.5	0
	03:00 - 04:00	53.0	50.2	49.7	49.8	3.1
	04:00 - 05:00	51.5	50.3	49.5	45.3	0
	05:00 - 06:00	52.7	51.4	50.3	46.8	0
Day Time	06:00 - 07:00	68.6	67.7	61.2	61.3	0.1
	07:00 - 08:00	62.1	57.7	54.9	60.1	5.2
	08:00 - 09:00	61.2	60.6	50.6	52.3	1.7
	09:00 - 10:00	59.2	59.0	56.0	45.7	0
	10:00 - 11:00	52.5	51.5	45.1	45.6	0.5
	11:00 - 12:00	46.8	42.5	38.1	44.8	6.7
Standard 6/7/						**≤10**

Remarks: 1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources: 6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
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Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยไคร้ (N1)
(UTM47Q 591936E, 1943028N)
Measurement Date : September 28-29, 2025
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541087

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	43.3	38.7	37.1	41.5	4.4
	13:00 - 14:00	50.0	42.4	39.3	49.2	9.9
	14:00 - 15:00	41.7	41.0	37.4	33.4	0
	15:00 - 16:00	44.7	43.2	40.1	39.4	0
	16:00 - 17:00	47.1	45.3	41.9	42.4	0.5
	17:00 - 18:00	47.0	43.7	42.1	44.3	2.2
	18:00 - 19:00	60.9	58.0	56.1	57.8	1.7
	19:00 - 20:00	56.9	55.7	54.3	50.7	0
	20:00 - 21:00	52.8	52.7	51.4	36.4	0
	21:00 - 22:00	51.4	50.9	50.2	41.8	0
Night Time	22:00 - 23:00	53.1	51.5	50.6	48.0	0.4
	23:00 - 00:00	53.4	52.7	51.5	45.1	0
	00:00 - 01:00	52.6	51.4	50.5	46.4	0
	01:00 - 02:00	52.6	51.8	51.2	44.9	0
	02:00 - 03:00	52.0	51.5	50.5	42.4	0
	03:00 - 04:00	52.9	52.3	50.0	44.0	0
	04:00 - 05:00	52.6	50.8	49.8	47.9	1.1
	05:00 - 06:00	53.3	49.6	48.2	50.9	5.7
Day Time	06:00 - 07:00	50.4	47.9	47.1	46.8	0
	07:00 - 08:00	50.3	49.9	47.6	39.7	0
	08:00 - 09:00	47.5	46.5	43.8	40.6	0
	09:00 - 10:00	41.7	40.3	39.1	36.1	0
	10:00 - 11:00	45.5	40.3	37.6	43.9	6.3
	11:00 - 12:00	39.5	39.3	37.3	26.0	0
Standard 6/7/						**≤10**

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
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Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยไคร้ (N1)
(UTM47Q 591936E, 1943028N)
Measurement Date : September 29-30, 2025
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541087

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	45.5	39.4	38.0	44.3	6.3
	13:00 - 14:00	44.7	42.2	38.8	41.1	2.3
	14:00 - 15:00	44.4	42.5	41.0	39.9	0
	15:00 - 16:00	45.5	45.2	40.4	33.7	0
	16:00 - 17:00	43.3	43.1	40.2	29.8	0
	17:00 - 18:00	50.4	44.2	42.5	49.2	6.7
	18:00 - 19:00	55.7	55.0	54.3	47.4	0
	19:00 - 20:00	55.7	53.9	53.1	51.0	0
	20:00 - 21:00	52.6	51.9	50.3	44.3	0
	21:00 - 22:00	50.7	50.2	49.4	41.1	0
Night Time	22:00 - 23:00	54.4	51.8	50.4	50.9	3.5
	23:00 - 00:00	55.1	52.8	52.2	51.2	2.0
	00:00 - 01:00	52.2	51.7	51.0	42.6	0
	01:00 - 02:00	53.2	51.6	50.6	48.1	0.5
	02:00 - 03:00	53.1	52.2	51.1	45.8	0
	03:00 - 04:00	53.1	53.0	50.9	36.7	0
	04:00 - 05:00	53.7	50.5	48.2	50.9	5.7
	05:00 - 06:00	51.2	48.0	46.4	48.4	5.0
Day Time	06:00 - 07:00	54.6	48.5	47.2	53.4	6.2
	07:00 - 08:00	55.2	46.8	44.8	54.5	9.7
	08:00 - 09:00	50.2	48.4	45.9	45.5	0
	09:00 - 10:00	52.2	46.3	44.0	50.9	6.9
	10:00 - 11:00	47.7	47.6	45.5	31.3	0
	11:00 - 12:00	46.6	42.4	41.3	44.5	3.2
Standard 6/7/						**≤10**

Remarks: 1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources: 6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Governm[redacted] January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Member of the SGS Group

Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยไคร้ (N1)
(UTM47Q 591936E, 1943028N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541087
Measurement Date : September 30-October 1, 2025
Measured By : Kittikhun Thaseephet

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	47.0	42.1	40.5	45.3	4.8
	13:00 - 14:00	44.9	42.0	40.2	41.8	1.6
	14:00 - 15:00	52.8	51.9	40.9	45.5	4.6
	15:00 - 16:00	48.4	41.8	40.3	47.3	7.0
	16:00 - 17:00	54.8	53.0	44.2	50.1	5.9
	17:00 - 18:00	46.6	46.3	43.8	34.8	0
	18:00 - 19:00	55.8	50.5	49.3	54.3	5.0
	19:00 - 20:00	51.8	45.3	43.9	50.7	6.8
	20:00 - 21:00	60.6	52.5	50.5	59.9	9.4
	21:00 - 22:00	62.1	61.7	60.4	51.5	0
Night Time	22:00 - 23:00	64.7	63.8	63.2	57.4	0
	23:00 - 00:00	63.2	61.6	60.8	58.1	0.3
	00:00 - 01:00	58.8	55.7	54.0	55.9	4.9
	01:00 - 02:00	56.4	54.7	53.3	51.5	1.2
	02:00 - 03:00	53.7	52.5	50.9	47.5	0
	03:00 - 04:00	56.9	51.3	50.4	55.5	8.1
	04:00 - 05:00	53.2	52.2	51.0	46.3	0
	05:00 - 06:00	52.4	50.0	49.0	48.7	2.7
Day Time	06:00 - 07:00	48.9	47.1	45.5	44.2	0
	07:00 - 08:00	50.2	49.3	47.5	42.9	0
	08:00 - 09:00	48.6	48.1	43.6	39.0	0
	09:00 - 10:00	50.9	46.6	44.6	48.9	4.3
	10:00 - 11:00	50.2	49.0	47.1	44.0	0
	11:00 - 12:00	48.5	46.5	40.5	44.2	3.7
Standard 6/7/						**≤10**

Remarks: 1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources: 6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Governm[redacted] January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยไคร้ (N1)
(UTM47Q 591936E, 1943028N)
Measurement Date : October 1-2, 2025
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541087

Duration	Time	Specific Sound Level ($L_{Aeq, T5}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, TR}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	45.8	43.3	37.8	42.2	4.4
	13:00 - 14:00	43.9	40.6	38.6	41.2	2.6
	14:00 - 15:00	46.0	40.5	38.7	44.6	5.9
	15:00 - 16:00	46.0	42.3	40.9	43.6	2.7
	16:00 - 17:00	46.7	43.9	41.1	43.5	2.4
	17:00 - 18:00	46.3	44.3	43.4	42.0	0
	18:00 - 19:00	66.4	62.9	62.2	63.8	1.6
	19:00 - 20:00	64.1	59.2	58.2	62.4	4.2
	20:00 - 21:00	57.3	56.8	55.9	47.7	0
	21:00 - 22:00	63.5	56.4	54.9	62.6	7.7
Night Time	22:00 - 23:00	56.0	55.4	53.7	47.1	0
	23:00 - 00:00	54.9	53.6	51.9	49.0	0.1
	00:00 - 01:00	53.4	52.1	50.3	47.5	0.2
	01:00 - 02:00	51.3	49.6	48.1	46.4	1.3
	02:00 - 03:00	54.6	50.7	49.8	52.3	5.5
	03:00 - 04:00	50.2	49.8	48.2	39.6	0
	04:00 - 05:00	49.2	47.4	46.4	44.5	1.1
	05:00 - 06:00	51.5	49.6	45.7	47.0	4.3
Day Time	06:00 - 07:00	53.5	48.4	45.2	51.9	6.7
	07:00 - 08:00	47.9	45.9	45.0	43.6	0
	08:00 - 09:00	50.5	44.9	41.7	49.1	7.4
	09:00 - 10:00	48.6	39.2	38.3	48.1	9.8
	10:00 - 11:00	47.0	38.4	36.5	46.4	9.9
	11:00 - 12:00	46.7	38.8	37.6	45.9	8.3
Standard 6/7/						**≤10**

Remarks: 1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources: 6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Governm[redacted] January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Report No. : 2025-500004791-4 / 001-8 (Page 1 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยสัก หมู่ที่ 9 (N2)
(UTM47Q 589155E, 1942254N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00652277
Measurement Date : September 25-26, 2025
Measured By : Kittikhun Thaseephet

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	13:00 - 14:00	51.2	50.4	35.4	43.5	8.1
	14:00 - 15:00	46.1	45.1	33.5	39.2	5.7
	15:00 - 16:00	43.1	41.3	34.8	38.4	3.6
	16:00 - 17:00	50.5	49.5	36.8	43.6	6.8
	17:00 - 18:00	43.3	42.6	35.0	35.0	0
	18:00 - 19:00	46.7	45.5	35.2	40.5	5.3
	19:00 - 20:00	49.3	47.8	36.8	44.0	7.2
	20:00 - 21:00	44.1	43.9	38.8	30.6	0
	21:00 - 22:00	44.5	44.3	43.2	31.0	0
Night Time	22:00 - 23:00	46.9	45.3	44.3	41.8	0.5
	23:00 - 00:00	47.8	45.9	44.5	43.3	1.8
	00:00 - 01:00	49.7	48.7	46.2	42.8	0
	01:00 - 02:00	48.6	47.2	46.7	43.0	0
	02:00 - 03:00	48.1	47.5	46.4	39.2	0
	03:00 - 04:00	45.4	44.6	43.6	37.7	0
	04:00 - 05:00	44.2	43.4	42.7	36.5	0
	05:00 - 06:00	44.6	42.4	41.1	40.6	2.5
Day Time	06:00 - 07:00	46.9	45.9	42.0	40.0	0
	07:00 - 08:00	51.5	49.4	45.7	47.3	1.6
	08:00 - 09:00	51.4	47.9	40.0	48.8	8.8
	09:00 - 10:00	58.4	57.4	42.0	51.5	9.5
	10:00 - 11:00	50.7	46.2	39.4	48.8	9.4
	11:00 - 12:00	52.3	50.7	39.3	47.2	7.9
	12:00 - 13:00	51.1	50.4	36.9	42.8	5.9
Standard 6/7/						**≤10**

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
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Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยสัก หมู่ที่ 9 (N2)
(UTM47Q 589155E, 1942254N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00652277
Measurement Date : September 26-27, 2025
Measured By : Kittikhun Thaseephet

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	13:00 - 14:00	47.3	44.6	34.9	44.0	9.1
	14:00 - 15:00	47.2	47.1	34.0	30.8	0
	15:00 - 16:00	50.6	49.4	36.1	44.4	8.3
	16:00 - 17:00	51.8	50.9	36.6	44.5	7.9
	17:00 - 18:00	53.6	52.8	40.1	45.9	5.8
	18:00 - 19:00	47.8	47.2	36.0	38.9	2.9
	19:00 - 20:00	52.8	51.0	38.9	48.1	9.2
	20:00 - 21:00	49.9	45.7	44.0	47.8	3.8
	21:00 - 22:00	50.3	43.2	41.3	49.4	8.1
Night Time	22:00 - 23:00	72.2	69.8	67.4	68.5	4.1
	23:00 - 00:00	58.2	53.4	51.9	56.5	7.6
	00:00 - 01:00	62.8	56.1	55.5	61.8	9.3
	01:00 - 02:00	53.4	51.1	49.4	49.5	3.1
	02:00 - 03:00	50.1	46.2	44.3	47.8	6.5
	03:00 - 04:00	51.2	48.8	48.3	47.5	2.2
	04:00 - 05:00	51.6	50.4	47.6	45.4	0.8
	05:00 - 06:00	52.1	48.3	46.7	49.8	6.1
Day Time	06:00 - 07:00	55.0	53.8	49.1	48.8	0
	07:00 - 08:00	58.3	57.4	53.5	51.0	0
	08:00 - 09:00	57.6	55.8	48.8	52.9	4.1
	09:00 - 10:00	57.7	57.0	46.2	49.4	3.2
	10:00 - 11:00	54.1	53.1	40.0	47.2	7.2
	11:00 - 12:00	53.9	53.0	38.2	46.6	8.4
	12:00 - 13:00	52.8	52.7	37.9	36.4	0
Standard 6/7/						**≤10**

Remarks: 1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources: 6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
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Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยสัก หมู่ที่ 9 (N2)
(UTM47Q 589155E, 1942254N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00652277
Measurement Date : September 27-28, 2025
Measured By : Kittikhun Thaseephet

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	13:00 - 14:00	49.3	48.1	37.0	43.1	6.1
	14:00 - 15:00	53.6	53.2	39.0	43.0	4.0
	15:00 - 16:00	55.5	54.6	38.4	48.2	9.8
	16:00 - 17:00	54.5	53.6	38.5	47.2	8.7
	17:00 - 18:00	51.0	49.7	38.6	45.1	6.5
	18:00 - 19:00	50.1	49.0	38.6	43.6	5.0
	19:00 - 20:00	49.8	46.0	39.0	47.5	8.5
	20:00 - 21:00	50.0	48.7	36.2	44.1	7.9
	21:00 - 22:00	46.0	43.2	33.9	42.8	8.9
Night Time	22:00 - 23:00	53.0	51.8	48.0	46.8	1.8
	23:00 - 00:00	53.3	51.5	49.2	48.6	2.4
	00:00 - 01:00	50.7	48.7	46.9	46.4	2.5
	01:00 - 02:00	51.3	49.3	48.3	47.0	1.7
	02:00 - 03:00	51.3	49.9	49.5	45.7	0
	03:00 - 04:00	52.1	50.0	49.1	47.9	1.8
	04:00 - 05:00	48.6	46.6	46.3	44.3	1.0
	05:00 - 06:00	50.6	44.5	44.1	49.4	8.3
Day Time	06:00 - 07:00	53.5	53.1	41.7	42.9	1.2
	07:00 - 08:00	58.7	57.2	45.5	53.4	7.9
	08:00 - 09:00	60.1	60.0	49.4	43.7	0
	09:00 - 10:00	52.4	50.7	39.3	47.5	8.2
	10:00 - 11:00	57.8	57.0	40.4	50.1	9.7
	11:00 - 12:00	51.7	51.3	38.0	41.1	3.1
	12:00 - 13:00	51.3	51.1	37.8	37.8	0
Standard 6/7/						**≤10**

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Governm[redacted]January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager
SGS (THAILAND) LIMITED

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยสัก หมู่ที่ 9 (N2)
(UTM47Q 589155E, 1942254N)
Measurement Date : September 28-29, 2025
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00652277

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	13:00 - 14:00	47.1	45.8	35.4	41.2	5.8
	14:00 - 15:00	47.9	47.1	36.4	40.2	3.8
	15:00 - 16:00	49.0	44.9	38.6	46.9	8.3
	16:00 - 17:00	48.8	48.6	39.4	35.3	0
	17:00 - 18:00	45.8	42.4	36.1	43.1	7.0
	18:00 - 19:00	43.8	42.1	37.3	38.9	1.6
	19:00 - 20:00	47.6	45.6	44.2	43.3	0
	20:00 - 21:00	46.1	45.8	44.1	34.3	0
	21:00 - 22:00	46.2	45.6	44.5	37.3	0
Night Time	22:00 - 23:00	51.6	50.1	48.8	46.3	0.5
	23:00 - 00:00	51.8	49.7	48.3	47.6	2.3
	00:00 - 01:00	50.1	49.0	48.3	43.6	0
	01:00 - 02:00	49.3	47.0	46.7	45.4	1.7
	02:00 - 03:00	47.3	46.8	46.4	37.7	0
	03:00 - 04:00	46.3	45.8	44.7	36.7	0
	04:00 - 05:00	50.8	50.6	42.5	37.3	0
	05:00 - 06:00	55.1	54.9	43.0	41.6	1.6
Day Time	06:00 - 07:00	53.3	50.6	40.9	50.0	9.1
	07:00 - 08:00	52.6	50.8	40.2	47.9	7.7
	08:00 - 09:00	52.2	51.0	41.4	46.0	4.6
	09:00 - 10:00	52.3	51.0	40.1	46.4	6.3
	10:00 - 11:00	54.1	53.4	38.7	45.8	7.1
	11:00 - 12:00	51.5	50.9	37.8	42.6	4.8
	12:00 - 13:00	50.8	50.6	37.8	37.3	0
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Governm[redacted] January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยสัก หมู่ที่ 9 (N2)
(UTM47Q 589155E, 1942254N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00652277
Measurement Date : September 29-30, 2025
Measured By : Kittikhun Thaseephet

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	13:00 - 14:00	46.8	43.7	34.5	43.9	9.4
	14:00 - 15:00	47.4	43.5	37.1	45.1	8.0
	15:00 - 16:00	49.5	49.1	39.6	38.9	0
	16:00 - 17:00	47.5	42.9	39.2	45.7	6.5
	17:00 - 18:00	49.1	48.5	38.8	40.2	1.4
	18:00 - 19:00	47.1	42.4	37.3	45.3	8.0
	19:00 - 20:00	45.3	45.0	42.3	33.5	0
	20:00 - 21:00	46.2	45.7	44.3	36.6	0
	21:00 - 22:00	45.4	44.4	43.7	38.5	0
Night Time	22:00 - 23:00	45.4	41.5	39.7	43.1	6.4
	23:00 - 00:00	48.0	45.2	44.6	44.8	3.2
	00:00 - 01:00	48.3	46.9	46.2	42.7	0
	01:00 - 02:00	48.3	47.4	46.8	41.0	0
	02:00 - 03:00	48.6	46.8	46.6	43.9	0.3
	03:00 - 04:00	47.8	46.4	45.9	42.2	0
	04:00 - 05:00	52.0	46.5	44.4	50.6	9.2
	05:00 - 06:00	50.8	48.8	42.6	46.5	6.9
Day Time	06:00 - 07:00	56.5	55.2	42.8	50.6	7.8
	07:00 - 08:00	61.5	60.7	49.4	53.8	4.4
	08:00 - 09:00	51.0	50.4	40.3	42.1	1.8
	09:00 - 10:00	56.9	56.8	49.6	40.5	0
	10:00 - 11:00	54.2	53.7	39.0	44.6	5.6
	11:00 - 12:00	51.8	50.5	37.6	45.9	8.3
	12:00 - 13:00	47.8	46.4	39.2	42.2	3.0
Standard 6/7/						**≤10**

Remarks: 1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources: 6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Governm[redacted]January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยสัก หมู่ที่ 9 (N2)
(UTM47Q 589155E, 1942254N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00652277
Measurement Date : September 30-October 1, 2025
Measured By : Kittikhun Thaseephet

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	13:00 - 14:00	51.9	51.3	38.9	43.0	4.1
	14:00 - 15:00	50.8	49.7	39.2	44.3	5.1
	15:00 - 16:00	55.4	54.2	40.6	49.2	8.6
	16:00 - 17:00	56.9	56.1	52.3	49.2	0
	17:00 - 18:00	51.8	50.6	39.7	45.6	5.9
	18:00 - 19:00	46.3	42.2	38.7	44.2	5.5
	19:00 - 20:00	56.5	53.1	46.0	53.8	7.8
	20:00 - 21:00	60.8	60.3	44.9	51.2	6.3
	21:00 - 22:00	52.8	50.7	47.3	48.6	1.3
Night Time	22:00 - 23:00	56.4	55.3	52.2	49.9	0.7
	23:00 - 00:00	50.7	49.7	48.7	43.8	0
	00:00 - 01:00	51.7	49.4	48.5	47.8	2.3
	01:00 - 02:00	51.2	51.0	49.1	37.7	0
	02:00 - 03:00	52.3	51.2	51.0	45.8	0
	03:00 - 04:00	56.7	52.2	51.6	54.8	6.2
	04:00 - 05:00	60.8	56.3	52.9	58.9	9.0
	05:00 - 06:00	59.2	56.1	52.7	56.3	6.6
Day Time	06:00 - 07:00	56.0	55.4	43.5	47.1	3.6
	07:00 - 08:00	58.7	57.5	43.7	52.5	8.8
	08:00 - 09:00	55.6	54.9	41.2	47.3	6.1
	09:00 - 10:00	51.2	50.8	46.1	40.6	0
	10:00 - 11:00	56.1	55.8	38.6	44.3	5.7
	11:00 - 12:00	57.9	56.2	44.7	53.0	8.3
	12:00 - 13:00	49.7	49.0	34.6	41.4	6.8
Standard 6/7/						**≤10**

Remarks: 1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources: 6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Governm[redacted]January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : บ้านห้วยสัก หมู่ที่ 9 (N2)
(UTM47Q 589155E, 1942254N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00652277
Measurement Date : October 1-2, 2025
Measured By : Kittikhun Thaseephet

Duration	Time	Specific Sound Level ($L_{Aeq, T5}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, TR}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	13:00 - 14:00	49.2	48.8	33.3	38.6	5.3
	14:00 - 15:00	51.0	50.8	34.0	37.5	3.5
	15:00 - 16:00	48.3	47.9	34.4	37.7	3.3
	16:00 - 17:00	48.0	47.7	39.6	36.2	0
	17:00 - 18:00	53.0	52.0	40.5	46.1	5.6
	18:00 - 19:00	48.0	46.7	42.0	42.1	0.1
	19:00 - 20:00	45.5	45.1	43.0	34.9	0
	20:00 - 21:00	49.6	47.9	46.9	44.7	0
	21:00 - 22:00	53.8	53.2	51.7	44.9	0
Night Time	22:00 - 23:00	54.6	53.1	51.3	49.3	1.0
	23:00 - 00:00	51.4	49.7	48.6	46.5	0.9
	00:00 - 01:00	52.3	50.4	50.0	47.8	0.8
	01:00 - 02:00	52.1	51.7	51.2	41.5	0
	02:00 - 03:00	52.2	51.6	51.1	43.3	0
	03:00 - 04:00	52.5	50.9	50.5	47.4	0
	04:00 - 05:00	51.6	50.2	48.9	46.0	0.1
	05:00 - 06:00	53.8	49.9	47.4	51.5	7.1
Day Time	06:00 - 07:00	57.2	56.4	42.0	49.5	7.5
	07:00 - 08:00	53.4	52.6	38.9	45.7	6.8
	08:00 - 09:00	53.2	51.8	38.0	47.6	9.6
	09:00 - 10:00	51.5	50.9	37.1	42.6	5.5
	10:00 - 11:00	48.8	47.3	35.4	43.5	8.1
	11:00 - 12:00	51.1	50.5	35.1	42.2	7.1
	12:00 - 13:00	49.1	49.0	45.3	32.7	0
Standard 6/7/						**≤10**

Remarks: 1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources: 6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Governm[redacted] January 25, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-4 / 001-9 (Page 1 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 25-26, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศเหนือ (UTM47Q 591676E, 1942927N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541050
: Model NL-53, RION, Serial No. 00541086 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	40.7	39.4	38.1	34.8	0
	13:00 - 14:00	42.8	42.1	41.1	34.5	0
	14:00 - 15:00	44.8	44.4	43.1	34.2	0
	15:00 - 16:00	43.7	43.6	42.3	27.3	0
	16:00 - 17:00	43.8	43.4	42.3	33.2	0
	17:00 - 18:00	45.2	44.1	41.2	38.7	0
	18:00 - 19:00	46.4	44.8	40.5	41.3	0.8
	19:00 - 20:00	48.8	47.2	46.0	43.7	0
	20:00 - 21:00	52.9	51.8	50.2	46.4	0
	21:00 - 22:00	55.9	51.6	50.4	53.9	3.5
Night Time	22:00 - 23:00	59.2	53.4	51.7	57.9	9.2
	23:00 - 00:00	58.7	53.1	51.8	57.3	8.5
	00:00 - 01:00	49.3	52.8	49.9	42.3	0
	01:00 - 02:00	48.6	48.1	46.8	39.0	0
	02:00 - 03:00	51.7	48.3	47.5	49.0	4.5
	03:00 - 04:00	51.9	47.9	46.9	49.7	5.8
	04:00 - 05:00	49.4	45.8	44.7	46.9	5.2
	05:00 - 06:00	44.9	43.1	41.5	40.2	1.7
Day Time	06:00 - 07:00	42.7	42.2	41.3	33.1	0
	07:00 - 08:00	44.1	43.8	43.0	32.3	0
	08:00 - 09:00	43.7	43.2	41.8	34.1	0
	09:00 - 10:00	45.7	43.7	41.3	41.4	0.1
	10:00 - 11:00	44.3	43.0	40.1	38.4	0
	11:00 - 12:00	44.7	42.5	40.7	40.7	0
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 26-27, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศเหนือ (UTM47Q 591676E, 1942927N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541050
: Model NL-53, RION, Serial No. 00541086 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	42.3	41.9	40.5	31.7	0
	13:00 - 14:00	43.3	43.2	41.8	26.9	0
	14:00 - 15:00	44.9	44.3	41.9	36.0	0
	15:00 - 16:00	42.5	42.0	41.2	32.9	0
	16:00 - 17:00	42.0	41.9	40.4	25.6	0
	17:00 - 18:00	55.6	47.3	45.1	54.9	9.8
	18:00 - 19:00	57.2	53.8	52.5	54.5	2.0
	19:00 - 20:00	49.9	46.5	45.1	47.2	2.1
	20:00 - 21:00	55.3	52.1	43.7	52.5	8.8
	21:00 - 22:00	54.9	51.5	47.9	52.2	4.3
Night Time	22:00 - 23:00	61.6	59.6	58.2	57.3	2.1
	23:00 - 00:00	60.4	55.6	53.0	58.7	8.7
	00:00 - 01:00	56.6	53.6	47.2	53.6	9.4
	01:00 - 02:00	50.1	46.8	46.2	47.4	4.2
	02:00 - 03:00	52.7	47.1	46.3	51.3	8.0
	03:00 - 04:00	52.8	47.8	46.2	51.1	7.9
	04:00 - 05:00	48.1	44.4	43.8	45.7	4.9
	05:00 - 06:00	43.3	43.2	42.4	26.9	0
Day Time	06:00 - 07:00	49.4	47.7	46.1	44.5	0
	07:00 - 08:00	50.2	45.1	43.9	48.6	4.7
	08:00 - 09:00	41.9	40.4	38.3	36.6	0
	09:00 - 10:00	42.5	41.5	40.3	35.6	0
	10:00 - 11:00	41.7	41.4	38.7	29.9	0
	11:00 - 12:00	41.2	40.2	38.4	34.3	0
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 27-28, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศเหนือ (UTM47Q 591676E, 1942927N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541050
: Model NL-53, RION, Serial No. 00541086 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	40.6	40.0	39.9	31.7	0
	13:00 - 14:00	41.5	40.8	39.6	33.2	0
	14:00 - 15:00	40.5	40.4	39.2	24.1	0
	15:00 - 16:00	41.3	41.1	40.2	27.8	0
	16:00 - 17:00	41.9	41.1	39.9	34.2	0
	17:00 - 18:00	44.7	44.6	42.7	28.3	0
	18:00 - 19:00	45.5	49.8	42.6	38.5	0
	19:00 - 20:00	45.0	44.2	42.7	37.3	0
	20:00 - 21:00	44.9	46.5	44.7	37.9	0
	21:00 - 22:00	46.6	46.2	44.5	36.0	0
Night Time	22:00 - 23:00	50.4	50.2	47.1	36.9	0
	23:00 - 00:00	50.6	50.3	47.6	38.8	0
	00:00 - 01:00	51.6	51.3	46.6	39.8	0
	01:00 - 02:00	59.6	54.9	53.1	57.8	7.7
	02:00 - 03:00	54.4	50.6	49.3	52.1	5.8
	03:00 - 04:00	51.8	48.8	43.4	48.8	8.4
	04:00 - 05:00	52.8	52.2	46.5	43.9	0.4
	05:00 - 06:00	61.6	61.5	44.6	45.2	3.6
Day Time	06:00 - 07:00	48.6	45.8	44.4	45.4	1.0
	07:00 - 08:00	47.2	47.0	44.6	33.7	0
	08:00 - 09:00	48.7	44.7	41.4	46.5	5.1
	09:00 - 10:00	48.5	42.2	41.1	47.3	6.2
	10:00 - 11:00	47.0	39.5	36.9	46.1	9.2
	11:00 - 12:00	46.0	41.4	38.3	44.2	5.9
Standard 6/7/						**≤10**

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager
SGS (THAILAND) LIMITED

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Report No. : 2025-500004791-4 / 001-9 (Page 4 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 28-29, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศเหนือ (UTM47Q 591676E, 1942927N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541050
: Model NL-53, RION, Serial No. 00541086 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	44.2	41.1	39.3	41.3	2.0
	13:00 - 14:00	47.5	43.5	42.2	45.3	3.1
	14:00 - 15:00	51.2	43.3	42.4	50.4	8.0
	15:00 - 16:00	45.8	45.3	44.1	36.2	0
	16:00 - 17:00	46.9	45.9	44.6	40.0	0
	17:00 - 18:00	47.9	46.2	45.0	43.0	0
	18:00 - 19:00	50.1	47.6	46.1	46.5	0.4
	19:00 - 20:00	50.2	49.3	47.0	42.9	0
	20:00 - 21:00	53.3	51.8	50.5	48.0	0
	21:00 - 22:00	57.5	51.9	50.9	56.1	5.2
Night Time	22:00 - 23:00	59.9	57.3	54.3	56.4	5.1
	23:00 - 00:00	59.8	54.0	52.1	58.5	9.4
	00:00 - 01:00	55.0	51.4	49.9	52.5	5.6
	01:00 - 02:00	51.2	49.6	48.2	46.1	0.9
	02:00 - 03:00	50.1	47.8	46.7	46.2	2.5
	03:00 - 04:00	49.7	48.1	46.9	44.6	0.7
	04:00 - 05:00	51.7	47.3	45.6	49.7	7.1
	05:00 - 06:00	49.5	45.1	44.3	47.5	6.2
Day Time	06:00 - 07:00	48.3	47.3	46.2	41.4	0
	07:00 - 08:00	62.6	61.9	61.5	54.3	0
	08:00 - 09:00	55.1	50.5	50.3	53.3	3.0
	09:00 - 10:00	58.2	52.8	51.1	56.7	5.6
	10:00 - 11:00	39.4	39.3	37.0	23.0	0
	11:00 - 12:00	39.8	39.7	38.7	23.4	0
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-4 / 001-9 (Page 5 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise **Measurement Date** : September 29-30, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศเหนือ **Measured By** : Kittikhun Thaseephet
(UTM47Q 591676E, 1942927N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541050
: Model NL-53, RION, Serial No. 00541086 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	40.8	40.6	39.8	27.3	0
	13:00 - 14:00	43.7	43.3	42.4	33.1	0
	14:00 - 15:00	43.3	42.6	41.9	35.0	0
	15:00 - 16:00	43.5	43.0	41.7	33.9	0
	16:00 - 17:00	41.9	41.8	39.9	25.5	0
	17:00 - 18:00	44.5	43.6	42.7	37.2	0
	18:00 - 19:00	47.6	42.0	41.2	46.2	5.0
	19:00 - 20:00	53.1	50.6	49.4	49.5	0.1
	20:00 - 21:00	53.2	50.2	49.4	50.2	0.8
	21:00 - 22:00	46.3	44.3	41.8	42.0	0.2
Night Time	22:00 - 23:00	59.0	56.7	55.4	55.1	2.7
	23:00 - 00:00	50.5	48.3	46.9	46.5	2.6
	00:00 - 01:00	46.9	46.8	43.4	30.5	0
	01:00 - 02:00	47.0	46.4	45.5	38.1	0
	02:00 - 03:00	47.4	46.2	46.1	41.2	0
	03:00 - 04:00	47.8	46.5	45.1	41.9	0
	04:00 - 05:00	52.1	50.4	48.1	47.2	2.1
	05:00 - 06:00	46.2	44.3	43.1	41.7	1.6
Day Time	06:00 - 07:00	57.0	50.0	48.7	56.0	7.3
	07:00 - 08:00	57.4	51.2	49.0	56.2	7.2
	08:00 - 09:00	45.4	44.4	43.5	38.5	0
	09:00 - 10:00	51.1	45.4	43.6	49.7	6.1
	10:00 - 11:00	43.0	42.8	41.8	29.5	0
	11:00 - 12:00	41.3	41.1	39.3	27.8	0
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-4 / 001-9 (Page 6 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศเหนือ (UTM47Q 591676E, 1942927N)
Measurement Date : September 30-October 1, 2025
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541050
: Model NL-53, RION, Serial No. 00541086 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	43.1	43.0	42.3	26.7	0
	13:00 - 14:00	45.0	44.7	43.5	33.2	0
	14:00 - 15:00	44.6	44.5	43.4	28.2	0
	15:00 - 16:00	45.6	45.3	44.1	33.8	0
	16:00 - 17:00	52.4	49.9	48.6	48.8	0.2
	17:00 - 18:00	44.0	43.6	41.6	33.4	0
	18:00 - 19:00	50.4	49.7	44.8	42.1	0
	19:00 - 20:00	54.4	50.6	49.1	52.1	3.0
	20:00 - 21:00	62.7	54.8	53.5	61.9	8.4
	21:00 - 22:00	54.4	49.7	48.1	52.6	4.5
Night Time	22:00 - 23:00	62.4	60.3	59.5	58.2	1.7
	23:00 - 00:00	62.1	57.1	55.6	60.4	7.8
	00:00 - 01:00	56.4	52.4	47.3	54.2	9.9
	01:00 - 02:00	52.4	50.9	44.3	47.1	5.8
	02:00 - 03:00	52.8	52.0	45.8	45.1	2.3
	03:00 - 04:00	57.8	56.8	45.4	50.9	8.5
	04:00 - 05:00	55.0	54.7	49.7	43.2	0
	05:00 - 06:00	51.0	46.3	45.4	49.2	6.8
Day Time	06:00 - 07:00	42.4	42.0	40.6	31.8	0
	07:00 - 08:00	45.7	44.7	44.1	38.8	0
	08:00 - 09:00	44.4	42.8	41.9	39.3	0
	09:00 - 10:00	50.6	47.9	45.6	47.3	1.7
	10:00 - 11:00	54.2	53.3	50.9	46.9	0
	11:00 - 12:00	40.7	40.2	39.8	31.1	0
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : October 1-2, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศเหนือ (UTM47Q 591676E, 1942927N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541050
: Model NL-53, RION, Serial No. 00541086 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	12:00 - 13:00	40.7	40.2	39.1	31.1	0
	13:00 - 14:00	39.6	39.4	38.5	26.1	0
	14:00 - 15:00	39.2	42.7	41.8	32.2	0
	15:00 - 16:00	40.8	40.6	39.3	27.3	0
	16:00 - 17:00	41.9	40.5	39.5	36.3	0
	17:00 - 18:00	44.9	41.9	39.0	41.9	2.9
	18:00 - 19:00	44.2	44.0	43.2	30.7	0
	19:00 - 20:00	48.1	44.9	42.5	45.3	2.8
	20:00 - 21:00	53.9	50.3	49.3	51.4	2.1
	21:00 - 22:00	58.9	55.8	54.9	56.0	1.1
Night Time	22:00 - 23:00	58.9	53.6	52.3	57.4	8.1
	23:00 - 00:00	58.6	55.2	50.6	55.9	8.3
	00:00 - 01:00	52.7	49.9	48.1	49.5	4.4
	01:00 - 02:00	52.9	48.2	46.7	51.1	7.4
	02:00 - 03:00	54.7	50.2	49.2	52.8	6.6
	03:00 - 04:00	51.2	48.3	46.2	48.1	4.9
	04:00 - 05:00	53.2	47.9	47.4	51.7	7.3
	05:00 - 06:00	51.3	48.2	46.5	48.4	4.9
Day Time	06:00 - 07:00	49.3	47.0	44.5	45.4	0.9
	07:00 - 08:00	44.0	43.2	41.8	36.3	0
	08:00 - 09:00	42.3	41.5	41.1	34.6	0
	09:00 - 10:00	43.1	42.8	41.6	31.3	0
	10:00 - 11:00	42.6	41.8	40.1	34.9	0
	11:00 - 12:00	41.5	41.0	40.9	31.9	0
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager
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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Report No. : 2025-500004791-4 / 001-10 (Page 1 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ทางด้านทิศใต้ (UTM47Q 592040E, 1941028N)
Measurement Date : September 25-26, 2025
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541088
: Model NL-53, RION, Serial No. 00452080 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	09:00 - 10:00	58.3	54.9	49.4	55.6	6.2
	10:00 - 11:00	54.3	52.9	49.1	48.7	0
	11:00 - 12:00	58.6	54.5	50.6	56.5	5.9
	12:00 - 13:00	58.8	54.9	50.0	56.5	6.5
	13:00 - 14:00	57.3	54.5	49.4	54.1	4.7
	14:00 - 15:00	57.4	56.2	47.7	51.2	3.5
	15:00 - 16:00	62.6	61.1	49.1	57.3	8.2
	16:00 - 17:00	57.1	56.1	52.5	50.2	0
	17:00 - 18:00	66.4	62.3	56.1	64.3	8.2
	18:00 - 19:00	61.0	56.2	54.6	59.3	4.7
	19:00 - 20:00	58.8	55.3	52.7	56.2	3.5
	20:00 - 21:00	57.8	53.6	52.5	55.7	3.2
	21:00 - 22:00	54.8	54.0	53.3	47.1	0
Night Time	22:00 - 23:00	63.0	59.4	58.7	60.5	4.8
	23:00 - 00:00	58.2	57.6	56.5	49.3	0
	00:00 - 01:00	62.3	57.2	56.6	60.7	7.1
	01:00 - 02:00	55.3	54.4	53.6	48.0	0
	02:00 - 03:00	54.4	52.7	51.4	49.5	1.1
	03:00 - 04:00	52.1	51.8	50.4	40.3	0
	04:00 - 05:00	53.2	52.9	51.8	41.4	0
	05:00 - 06:00	56.5	55.5	54.5	49.6	0
Day Time	06:00 - 07:00	55.4	52.8	51.3	51.9	0.6
	07:00 - 08:00	64.3	60.2	52.7	62.2	9.5
	08:00 - 09:00	62.9	61.6	50.6	57.0	6.4
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 26-27, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ทางด้านทิศใต้ (UTM47Q 592040E, 1941028N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541088
: Model NL-53, RION, Serial No. 00452080 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	09:00 - 10:00	59.0	58.6	46.2	48.4	2.2
	10:00 - 11:00	56.9	56.6	45.5	45.1	0
	11:00 - 12:00	60.9	60.1	45.8	53.2	7.4
	12:00 - 13:00	60.4	59.5	45.3	53.1	7.8
	13:00 - 14:00	61.5	59.9	50.3	56.4	6.1
	14:00 - 15:00	61.4	59.0	49.8	57.7	7.9
	15:00 - 16:00	57.4	56.2	44.7	51.2	6.5
	16:00 - 17:00	56.6	56.0	44.4	47.7	3.3
	17:00 - 18:00	68.2	68.0	46.6	54.7	8.1
	18:00 - 19:00	60.2	58.0	54.8	56.2	1.4
	19:00 - 20:00	59.5	57.5	52.2	55.2	3.0
	20:00 - 21:00	65.6	64.4	54.0	59.4	5.4
	21:00 - 22:00	60.6	59.6	58.8	53.7	0
Night Time	22:00 - 23:00	61.0	57.9	56.7	58.1	4.4
	23:00 - 00:00	55.3	52.2	51.9	52.4	3.5
	00:00 - 01:00	53.8	52.1	51.8	48.9	0.1
	01:00 - 02:00	52.1	51.7	51.0	41.5	0
	02:00 - 03:00	50.5	50.4	50.1	34.1	0
	03:00 - 04:00	52.2	51.6	51.1	43.3	0
	04:00 - 05:00	54.3	52.2	51.3	50.1	1.8
	05:00 - 06:00	55.6	52.0	51.4	53.1	4.7
Day Time	06:00 - 07:00	58.6	57.8	56.8	50.9	0
	07:00 - 08:00	66.7	62.5	59.8	64.6	4.8
	08:00 - 09:00	63.4	61.2	59.1	59.4	0.3
Standard 6/7/						**≤10**

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 27-28, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ทางด้านทิศใต้ (UTM47Q 592040E, 1941028N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541088
: Model NL-53, RION, Serial No. 00452080 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq,\ Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq,\ R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq,\ Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	09:00 - 10:00	58.8	58.0	57.6	51.1	0
	10:00 - 11:00	54.8	57.7	57.4	47.8	0
	11:00 - 12:00	59.3	58.2	57.8	52.8	0
	12:00 - 13:00	60.8	59.8	57.4	53.9	0
	13:00 - 14:00	59.2	58.1	56.3	52.7	0
	14:00 - 15:00	60.8	56.3	55.9	58.9	3.0
	15:00 - 16:00	56.7	56.5	55.2	43.2	0
	16:00 - 17:00	56.7	55.5	54.7	50.5	0
	17:00 - 18:00	64.3	61.6	54.5	61.0	6.5
	18:00 - 19:00	54.7	54.3	53.9	44.1	0
	19:00 - 20:00	58.1	58.0	57.6	41.7	0
	20:00 - 21:00	57.1	57.0	55.9	40.7	0
	21:00 - 22:00	54.6	59.5	57.3	47.6	0
Night Time	22:00 - 23:00	61.2	58.0	56.8	58.4	4.6
	23:00 - 00:00	55.5	54.6	54.0	48.2	0
	00:00 - 01:00	56.4	53.9	53.0	52.8	2.8
	01:00 - 02:00	53.9	53.3	52.6	45.0	0
	02:00 - 03:00	53.6	53.2	52.3	43.0	0
	03:00 - 04:00	55.2	53.9	53.3	49.3	0
	04:00 - 05:00	54.7	58.9	56.3	47.7	0
	05:00 - 06:00	64.1	61.1	60.1	61.1	4.0
Day Time	06:00 - 07:00	53.2	52.2	50.5	46.3	0
	07:00 - 08:00	58.1	51.1	48.5	57.1	8.6
	08:00 - 09:00	59.2	57.5	47.0	54.3	7.3
Standard 6/7/						**≤10**

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq,\ R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Report No. : 2025-500004791-4 / 001-10 (Page 4 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise **Measurement Date** : September 28-29, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ทางด้านทิศใต้ **Measured By** : Kittikhun Thaseephet
(UTM47Q 592040E, 1941028N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541088
: Model NL-53, RION, Serial No. 00452080 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	09:00 - 10:00	54.4	46.9	46.2	53.5	7.3
	10:00 - 11:00	48.8	48.4	46.8	38.2	0
	11:00 - 12:00	51.7	50.1	46.1	46.6	0.5
	12:00 - 13:00	52.8	47.7	46.6	51.2	4.6
	13:00 - 14:00	58.4	57.7	45.9	50.1	4.2
	14:00 - 15:00	51.2	48.1	45.1	48.3	3.2
	15:00 - 16:00	52.0	49.3	45.3	48.7	3.4
	16:00 - 17:00	52.8	49.3	46.5	50.2	3.7
	17:00 - 18:00	58.3	54.1	48.2	56.2	8.0
	18:00 - 19:00	54.2	53.2	47.1	47.3	0.2
	19:00 - 20:00	57.5	57.4	55.6	41.1	0
	20:00 - 21:00	56.6	56.0	55.7	47.7	0
	21:00 - 22:00	56.0	55.7	54.9	44.2	0
Night Time	22:00 - 23:00	57.3	56.3	55.7	50.4	0
	23:00 - 00:00	62.1	58.8	58.2	59.4	4.2
	00:00 - 01:00	57.9	56.0	55.3	53.4	1.1
	01:00 - 02:00	56.2	55.6	54.7	47.3	0
	02:00 - 03:00	55.1	54.8	54.2	43.3	0
	03:00 - 04:00	48.9	48.2	47.6	40.6	0
	04:00 - 05:00	51.4	50.8	50.1	42.5	0
	05:00 - 06:00	54.1	52.5	51.3	49.0	0.7
Day Time	06:00 - 07:00	53.7	51.0	47.7	50.4	2.7
	07:00 - 08:00	55.1	52.1	47.5	52.1	4.6
	08:00 - 09:00	56.9	52.2	47.5	55.1	7.6
Standard 6/7/						≤10

Remarks: 1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources: 6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 29-30, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ทางด้านทิศใต้ (UTM47Q 592040E, 1941028N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541088
: Model NL-53, RION, Serial No. 00452080 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq,\ Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq,\ R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq,\ Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	09:00 - 10:00	58.8	57.0	45.6	54.1	8.5
	10:00 - 11:00	57.7	56.9	44.5	50.0	5.5
	11:00 - 12:00	59.4	55.9	53.0	56.8	3.8
	12:00 - 13:00	58.5	58.3	53.3	45.0	0
	13:00 - 14:00	66.7	65.2	54.8	61.4	6.6
	14:00 - 15:00	54.9	54.0	47.8	47.6	0
	15:00 - 16:00	53.7	52.0	47.3	48.8	1.5
	16:00 - 17:00	54.2	53.6	46.2	45.3	0
	17:00 - 18:00	64.6	63.0	54.7	59.5	4.8
	18:00 - 19:00	56.9	54.2	52.3	53.6	1.3
	19:00 - 20:00	59.5	54.3	53.8	57.9	4.1
	20:00 - 21:00	57.3	56.8	55.6	47.7	0
	21:00 - 22:00	56.7	55.5	53.8	50.5	0
Night Time	22:00 - 23:00	68.5	66.0	64.0	64.9	3.9
	23:00 - 00:00	68.5	66.3	63.5	64.5	4.0
	00:00 - 01:00	67.6	65.7	61.9	63.1	4.2
	01:00 - 02:00	67.2	65.6	57.6	62.1	7.5
	02:00 - 03:00	67.6	65.9	62.3	62.7	3.4
	03:00 - 04:00	63.2	61.3	55.3	58.7	6.4
	04:00 - 05:00	64.4	62.3	61.5	60.2	1.7
	05:00 - 06:00	63.8	63.3	55.0	54.2	2.2
Day Time	06:00 - 07:00	60.0	56.5	52.1	57.4	5.3
	07:00 - 08:00	64.8	64.0	51.3	57.1	5.8
	08:00 - 09:00	65.5	64.1	51.5	59.9	8.4
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq,\ R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Report No. : 2025-500004791-4 / 001-10 (Page 6 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise **Measurement Date** : September 30-October 1, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ทางด้านทิศใต้ **Measured By** : Kittikhun Thaseephet
(UTM47Q 592040E, 1941028N)
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541088
: Model NL-53, RION, Serial No. 00452080 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	09:00 - 10:00	61.3	55.2	54.3	60.1	5.8
	10:00 - 11:00	55.2	55.0	54.2	41.7	0
	11:00 - 12:00	61.9	60.5	56.2	56.3	0.1
	12:00 - 13:00	59.6	59.0	56.7	50.7	0
	13:00 - 14:00	61.9	58.1	56.8	59.6	2.8
	14:00 - 15:00	58.2	58.0	55.9	44.7	0
	15:00 - 16:00	57.9	57.0	56.0	50.6	0
	16:00 - 17:00	61.4	58.7	57.1	58.1	1.0
	17:00 - 18:00	64.5	58.1	56.9	63.4	6.5
	18:00 - 19:00	61.2	57.4	57.0	58.9	1.9
	19:00 - 20:00	60.5	60.2	58.9	48.7	0
	20:00 - 21:00	66.5	60.9	60.6	65.1	4.5
	21:00 - 22:00	58.0	57.9	56.6	41.6	0
Night Time	22:00 - 23:00	62.5	61.1	59.7	56.9	0.2
	23:00 - 00:00	57.8	57.1	56.3	49.5	0
	00:00 - 01:00	58.5	56.6	56.4	54.0	0.6
	01:00 - 02:00	55.7	55.4	55.0	43.9	0
	02:00 - 03:00	54.7	54.3	53.6	44.1	0
	03:00 - 04:00	61.2	57.4	57.1	58.9	4.8
	04:00 - 05:00	65.6	60.4	60.1	64.0	6.9
	05:00 - 06:00	62.9	59.8	59.3	60.0	3.7
Day Time	06:00 - 07:00	59.2	59.0	58.7	45.7	0
	07:00 - 08:00	66.9	60.2	59.6	65.9	6.3
	08:00 - 09:00	65.2	60.0	59.0	63.6	4.6
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-4 / 001-10 (Page 7 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ทางด้านทิศใต้ (UTM47Q 592040E, 1941028N)
Measurement Date : October 1-2, 2025
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541088
: Model NL-53, RION, Serial No. 00452080 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	09:00 - 10:00	60.6	59.4	58.8	54.4	0
	10:00 - 11:00	59.9	59.4	58.0	50.3	0
	11:00 - 12:00	66.1	59.3	58.6	65.1	6.5
	12:00 - 13:00	60.9	58.2	57.8	57.6	0
	13:00 - 14:00	61.0	57.8	57.2	58.2	1.0
	14:00 - 15:00	59.2	58.0	57.2	53.0	0
	15:00 - 16:00	58.7	58.4	57.3	46.9	0
	16:00 - 17:00	57.5	57.4	56.6	41.1	0
	17:00 - 18:00	64.2	59.1	57.4	62.6	5.2
	18:00 - 19:00	58.6	58.2	57.5	48.0	0
	19:00 - 20:00	59.3	59.1	58.9	45.8	0
	20:00 - 21:00	57.5	57.4	56.8	41.1	0
	21:00 - 22:00	56.9	56.2	55.7	48.6	0
Night Time	22:00 - 23:00	58.4	57.9	57.1	48.8	0
	23:00 - 00:00	61.5	58.9	58.3	58.0	2.7
	00:00 - 01:00	60.4	59.4	59.0	53.5	0
	01:00 - 02:00	62.4	58.6	58.2	60.1	4.9
	02:00 - 03:00	51.4	55.8	55.3	44.4	0
	03:00 - 04:00	51.5	56.8	56.2	44.5	0
	04:00 - 05:00	55.9	58.7	57.4	48.9	0
	05:00 - 06:00	59.0	58.7	57.9	47.2	0
Day Time	06:00 - 07:00	54.5	54.4	54.1	38.1	0
	07:00 - 08:00	65.0	59.1	57.4	63.7	6.3
	08:00 - 09:00	61.2	59.1	57.0	57.0	0
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-4 / 001-11 (Page 1 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 25-26, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันออก (UTM47Q 592312E, 1942119N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541049
: Model NL-53, RION, Serial No. 00652276 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	10:00 - 11:00	57.2	48.5	48.1	56.6	8.5
	11:00 - 12:00	57.4	55.0	48.7	53.7	5.0
	12:00 - 13:00	57.5	49.9	48.9	56.7	7.8
	13:00 - 14:00	57.8	50.7	49.8	56.9	7.1
	14:00 - 15:00	57.8	51.3	50.6	56.7	6.1
	15:00 - 16:00	57.3	49.6	48.9	56.5	7.6
	16:00 - 17:00	57.6	50.3	49.4	56.7	7.3
	17:00 - 18:00	57.7	50.4	49.9	56.8	6.9
	18:00 - 19:00	57.3	52.1	50.1	55.7	5.6
	19:00 - 20:00	57.1	52.9	51.1	55.0	3.9
	20:00 - 21:00	57.5	52.2	50.4	56.0	5.6
	21:00 - 22:00	57.2	54.7	51.1	53.6	2.5
Night Time	22:00 - 23:00	57.7	55.9	52.9	53.0	3.1
	23:00 - 00:00	57.6	53.6	51.4	55.4	7.0
	00:00 - 01:00	57.9	51.5	51.0	56.8	8.8
	01:00 - 02:00	57.5	52.2	52.0	56.0	7.0
	02:00 - 03:00	57.5	51.2	51.1	56.3	8.2
	03:00 - 04:00	57.6	51.5	51.2	56.4	8.2
	04:00 - 05:00	57.5	51.9	51.2	56.1	7.9
	05:00 - 06:00	57.7	51.2	50.4	56.6	9.2
Day Time	06:00 - 07:00	57.2	49.1	48.7	56.5	7.8
	07:00 - 08:00	57.2	49.0	48.7	56.5	7.8
	08:00 - 09:00	57.2	48.7	48.2	56.5	8.3
	09:00 - 10:00	57.8	49.3	48.7	57.1	8.4
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 26-27, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันออก (UTM47Q 592312E, 1942119N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541049
: Model NL-53, RION, Serial No. 00652276 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	10:00 - 11:00	57.4	49.6	48.5	56.6	8.1
	11:00 - 12:00	57.5	49.0	48.2	56.8	8.6
	12:00 - 13:00	57.8	50.5	49.3	56.9	7.6
	13:00 - 14:00	57.6	49.6	48.8	56.9	8.1
	14:00 - 15:00	57.4	49.2	48.6	56.7	8.1
	15:00 - 16:00	57.5	48.8	48.1	56.9	8.8
	16:00 - 17:00	57.9	50.4	49.3	57.0	7.7
	17:00 - 18:00	59.8	56.1	53.7	57.4	3.7
	18:00 - 19:00	58.5	57.0	54.8	53.2	0
	19:00 - 20:00	57.9	55.0	52.3	54.8	2.5
	20:00 - 21:00	58.4	53.7	51.5	56.6	5.1
	21:00 - 22:00	58.4	59.8	52.6	51.4	0
Night Time	22:00 - 23:00	59.0	68.9	67.8	52.0	0
	23:00 - 00:00	58.3	65.0	56.8	51.3	0
	00:00 - 01:00	58.4	55.2	54.2	55.6	4.4
	01:00 - 02:00	58.4	53.9	53.6	56.5	5.9
	02:00 - 03:00	58.4	54.5	54.0	56.1	5.1
	03:00 - 04:00	58.5	55.0	54.5	55.9	4.4
	04:00 - 05:00	58.4	56.8	55.6	53.3	0.7
	05:00 - 06:00	58.4	56.7	53.6	53.5	2.9
Day Time	06:00 - 07:00	57.8	53.4	52.0	55.8	3.8
	07:00 - 08:00	58.3	51.7	50.9	57.2	6.3
	08:00 - 09:00	58.1	50.5	50.0	57.3	7.3
	09:00 - 10:00	58.2	51.5	50.1	57.2	7.1
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 27-28, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันออก (UTM47Q 592312E, 1942119N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541049
: Model NL-53, RION, Serial No. 00652276 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	10:00 - 11:00	57.8	50.5	50.0	56.9	6.9
	11:00 - 12:00	58.0	51.4	50.4	56.9	6.5
	12:00 - 13:00	58.0	51.1	50.7	57.0	6.3
	13:00 - 14:00	57.9	51.2	50.2	56.9	6.7
	14:00 - 15:00	58.0	51.0	50.6	57.0	6.4
	15:00 - 16:00	57.9	51.6	51.2	56.7	5.5
	16:00 - 17:00	57.6	50.6	50.3	56.6	6.3
	17:00 - 18:00	57.6	50.5	49.8	56.7	6.9
	18:00 - 19:00	57.6	53.7	51.6	55.3	3.7
	19:00 - 20:00	57.3	53.2	51.9	55.2	3.3
	20:00 - 21:00	57.8	53.8	52.7	55.6	2.9
	21:00 - 22:00	57.6	67.4	66.0	50.6	0
Night Time	22:00 - 23:00	57.8	66.8	63.6	50.8	0
	23:00 - 00:00	57.6	60.2	54.6	50.6	0
	00:00 - 01:00	57.9	54.6	54.0	55.2	4.2
	01:00 - 02:00	58.2	54.0	53.7	56.1	5.4
	02:00 - 03:00	58.3	54.4	53.7	56.0	5.3
	03:00 - 04:00	58.0	63.5	51.7	51.0	2.3
	04:00 - 05:00	59.2	77.4	73.3	52.2	0
	05:00 - 06:00	59.3	78.7	77.5	52.3	0
Day Time	06:00 - 07:00	57.3	49.9	49.6	56.4	6.8
	07:00 - 08:00	57.5	50.1	49.7	56.6	6.9
	08:00 - 09:00	57.5	49.8	49.4	56.7	7.3
	09:00 - 10:00	57.8	51.3	48.5	56.7	8.2
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 28-29, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันออก (UTM47Q 592312E, 1942119N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541049
: Model NL-53, RION, Serial No. 00652276 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	10:00 - 11:00	57.9	56.5	56.0	52.3	0
	11:00 - 12:00	57.9	56.4	56.0	52.6	0
	12:00 - 13:00	57.8	56.3	55.9	52.5	0
	13:00 - 14:00	58.3	56.2	55.7	54.1	0
	14:00 - 15:00	57.8	56.1	55.8	52.9	0
	15:00 - 16:00	58.0	56.5	56.0	52.7	0
	16:00 - 17:00	57.9	56.3	55.9	52.8	0
	17:00 - 18:00	57.9	56.4	56.0	52.6	0
	18:00 - 19:00	57.7	53.3	51.2	55.7	4.5
	19:00 - 20:00	57.4	53.5	52.0	55.1	3.1
	20:00 - 21:00	57.3	53.3	52.1	55.1	3.0
	21:00 - 22:00	57.6	63.0	57.9	50.6	0
Night Time	22:00 - 23:00	58.0	62.4	54.3	51.0	0
	23:00 - 00:00	57.9	57.1	53.2	50.2	0
	00:00 - 01:00	57.9	57.0	52.9	50.6	0.7
	01:00 - 02:00	58.1	53.1	52.8	56.4	6.6
	02:00 - 03:00	57.4	54.1	53.8	54.7	3.9
	03:00 - 04:00	57.7	53.4	53.0	55.7	5.7
	04:00 - 05:00	57.5	53.5	53.0	55.3	5.3
	05:00 - 06:00	57.3	49.9	49.6	56.4	9.8
Day Time	06:00 - 07:00	56.9	48.6	48.2	56.2	8.0
	07:00 - 08:00	57.3	48.9	48.6	56.6	8.0
	08:00 - 09:00	57.8	51.2	49.9	56.7	6.8
	09:00 - 10:00	57.7	51.1	50.2	56.6	6.4
Standard 6/7/						**≤10**

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 29-30, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันออก (UTM47Q 592312E, 1942119N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541049
: Model NL-53, RION, Serial No. 00652276 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	10:00 - 11:00	58.1	51.4	50.3	57.1	6.8
	11:00 - 12:00	57.8	50.6	49.7	56.9	7.2
	12:00 - 13:00	57.8	51.3	50.4	56.7	6.3
	13:00 - 14:00	57.7	50.9	50.0	56.7	6.7
	14:00 - 15:00	57.6	50.2	49.5	56.7	7.2
	15:00 - 16:00	61.6	53.0	51.7	61.0	9.3
	16:00 - 17:00	57.9	50.5	49.2	57.0	7.8
	17:00 - 18:00	57.2	49.2	48.7	56.5	7.8
	18:00 - 19:00	57.1	51.7	49.3	55.6	6.3
	19:00 - 20:00	57.7	53.7	52.7	55.5	2.8
	20:00 - 21:00	57.3	52.4	51.6	55.6	4.0
	21:00 - 22:00	57.3	51.3	50.6	56.0	5.4
Night Time	22:00 - 23:00	57.1	51.9	49.6	55.5	8.9
	23:00 - 00:00	57.1	52.5	51.2	55.3	7.1
	00:00 - 01:00	57.3	53.4	52.8	55.0	5.2
	01:00 - 02:00	57.6	55.1	54.1	54.0	2.9
	02:00 - 03:00	57.4	54.4	53.7	54.4	3.7
	03:00 - 04:00	57.7	54.4	53.1	55.0	4.9
	04:00 - 05:00	57.9	54.1	53.5	55.6	5.1
	05:00 - 06:00	57.3	51.0	50.5	56.1	8.6
Day Time	06:00 - 07:00	57.3	49.4	48.9	56.5	7.6
	07:00 - 08:00	57.3	49.8	48.8	56.4	7.6
	08:00 - 09:00	57.7	48.6	48.1	57.1	9.0
	09:00 - 10:00	57.9	52.2	49.6	56.5	6.9
Standard 6/7/						**≤10**

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-4 / 001-11 (Page 6 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise **Measurement Date** : September 30-October 1, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันออก (UTM47Q 592312E, 1942119N) **Measured By** : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541049
: Model NL-53, RION, Serial No. 00652276 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	10:00 - 11:00	62.0	53.7	52.9	61.3	8.4
	11:00 - 12:00	57.2	53.6	52.8	54.7	1.9
	12:00 - 13:00	57.2	53.7	53.2	54.6	1.4
	13:00 - 14:00	57.1	54.3	53.6	53.9	0.3
	14:00 - 15:00	57.2	54.0	53.5	54.4	0.9
	15:00 - 16:00	57.1	53.9	53.3	54.3	1.0
	16:00 - 17:00	57.7	53.6	53.2	55.6	2.4
	17:00 - 18:00	57.0	53.8	53.3	54.2	0.9
	18:00 - 19:00	57.7	56.9	53.9	50.0	0
	19:00 - 20:00	57.9	54.0	51.7	55.6	3.9
	20:00 - 21:00	62.2	60.6	55.3	57.1	1.8
	21:00 - 22:00	59.3	67.8	66.3	52.3	0
Night Time	22:00 - 23:00	59.5	69.0	67.7	52.5	0
	23:00 - 00:00	58.8	61.1	57.2	51.8	0
	00:00 - 01:00	58.2	55.6	51.9	54.7	5.8
	01:00 - 02:00	58.1	53.0	52.3	56.5	7.2
	02:00 - 03:00	58.8	53.1	52.8	57.4	7.6
	03:00 - 04:00	58.4	52.9	52.1	57.0	7.9
	04:00 - 05:00	58.8	55.4	54.1	56.1	5.0
	05:00 - 06:00	59.9	58.9	57.6	53.0	0
Day Time	06:00 - 07:00	57.8	50.2	49.6	57.0	7.4
	07:00 - 08:00	57.7	49.4	49.1	57.0	7.9
	08:00 - 09:00	57.8	49.3	48.6	57.1	8.5
	09:00 - 10:00	58.0	49.8	49.1	57.3	8.2
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-4 / 001-11 (Page 7 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : October 1-2, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันออก (UTM47Q 592312E, 1942119N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-53, RION, Serial No. 00541049
: Model NL-53, RION, Serial No. 00652276 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	10:00 - 11:00	58.2	50.2	48.5	57.5	9.0
	11:00 - 12:00	57.6	50.1	49.3	56.7	7.4
	12:00 - 13:00	57.6	49.3	48.5	56.9	8.4
	13:00 - 14:00	57.7	51.7	50.8	56.4	5.6
	14:00 - 15:00	66.2	65.0	52.4	60.0	7.6
	15:00 - 16:00	61.3	53.3	52.2	60.6	8.4
	16:00 - 17:00	57.4	50.3	49.8	56.5	6.7
	17:00 - 18:00	57.3	51.0	50.3	56.1	5.8
	18:00 - 19:00	57.5	52.5	50.6	55.8	5.2
	19:00 - 20:00	57.4	51.9	50.3	56.0	5.7
	20:00 - 21:00	57.4	55.8	51.1	52.3	1.2
	21:00 - 22:00	57.6	55.5	52.9	53.4	0.5
Night Time	22:00 - 23:00	57.9	55.2	54.2	54.6	3.4
	23:00 - 00:00	57.6	55.7	54.6	53.1	1.5
	00:00 - 01:00	57.7	56.4	53.5	51.8	1.3
	01:00 - 02:00	58.0	55.5	54.1	54.4	3.3
	02:00 - 03:00	57.5	56.3	53.7	51.3	0.6
	03:00 - 04:00	57.5	54.1	52.4	54.8	5.4
	04:00 - 05:00	57.4	52.0	51.4	55.9	7.5
	05:00 - 06:00	57.4	52.3	50.6	55.8	8.2
Day Time	06:00 - 07:00	57.1	53.7	51.6	54.4	2.8
	07:00 - 08:00	57.3	50.9	49.6	56.2	6.6
	08:00 - 09:00	57.8	52.9	48.1	56.1	8.0
	09:00 - 10:00	58.5	49.8	48.6	57.9	9.3
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Report No. : 2025-500004791-4 / 001-12 (Page 1 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันตก (UTM47Q 590823E, 1942314N)
Measurement Date : September 25-26, 2025
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-52, RION, Serial No. 00830426
: Model NL-53, RION, Serial No. 00541048 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	11:00 - 12:00	49.9	45.3	44.0	48.1	4.1
	12:00 - 13:00	50.2	45.3	43.2	48.5	5.3
	13:00 - 14:00	52.5	50.6	44.4	48.0	3.6
	14:00 - 15:00	49.0	48.5	45.2	39.4	0
	15:00 - 16:00	47.4	45.5	44.2	42.9	0
	16:00 - 17:00	51.8	46.7	45.1	50.2	5.1
	17:00 - 18:00	55.6	55.0	43.9	46.7	2.8
	18:00 - 19:00	54.8	50.7	45.8	52.7	6.9
	19:00 - 20:00	58.5	51.8	48.3	57.5	9.2
	20:00 - 21:00	57.1	48.0	47.7	56.5	8.8
	21:00 - 22:00	61.0	58.5	48.7	57.4	8.7
Night Time	22:00 - 23:00	64.0	63.8	48.1	50.5	5.4
	23:00 - 00:00	63.9	63.6	50.6	52.1	4.5
	00:00 - 01:00	63.3	62.8	47.6	53.7	9.1
	01:00 - 02:00	60.5	59.6	47.9	53.2	8.3
	02:00 - 03:00	59.9	58.9	47.3	53.0	8.7
	03:00 - 04:00	65.4	65.3	46.3	49.0	5.7
	04:00 - 05:00	66.8	66.7	47.6	50.4	5.8
	05:00 - 06:00	64.3	63.7	49.5	55.4	8.9
Day Time	06:00 - 07:00	59.9	58.5	45.2	54.3	9.1
	07:00 - 08:00	54.4	53.3	43.5	47.9	4.4
	08:00 - 09:00	55.0	54.1	43.6	47.7	4.1
	09:00 - 10:00	49.9	46.4	44.2	47.3	3.1
	10:00 - 11:00	50.6	45.1	44.0	49.2	5.2
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Gazette, [redacted] 9 (2006).

Approved by _____
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 26-27, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันตก (UTM47Q 590823E, 1942314N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-52, RION, Serial No. 00830426
: Model NL-53, RION, Serial No. 00541048 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq,Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq,R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq,Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	11:00 - 12:00	53.6	45.2	44.3	52.9	8.6
	12:00 - 13:00	52.6	45.3	43.6	51.7	8.1
	13:00 - 14:00	52.5	45.4	43.6	51.6	8.0
	14:00 - 15:00	55.2	54.2	43.5	48.3	4.8
	15:00 - 16:00	54.2	50.2	43.7	52.0	8.3
	16:00 - 17:00	51.0	45.8	42.2	49.4	7.2
	17:00 - 18:00	56.9	55.1	44.4	52.2	7.8
	18:00 - 19:00	55.6	51.5	51.0	53.5	2.5
	19:00 - 20:00	53.9	45.3	44.2	53.3	9.1
	20:00 - 21:00	63.0	62.6	44.9	52.4	7.5
	21:00 - 22:00	58.1	56.2	46.1	53.6	7.5
Night Time	22:00 - 23:00	67.4	67.2	50.6	53.9	6.3
	23:00 - 00:00	65.4	65.1	49.6	53.6	7.0
	00:00 - 01:00	65.1	64.9	49.3	51.6	5.3
	01:00 - 02:00	64.0	63.1	50.4	56.7	9.3
	02:00 - 03:00	65.0	64.8	49.8	51.5	4.7
	03:00 - 04:00	65.2	65.0	48.5	51.7	6.2
	04:00 - 05:00	65.5	64.7	55.3	57.8	5.5
	05:00 - 06:00	64.0	63.5	49.2	54.4	8.2
Day Time	06:00 - 07:00	56.1	49.7	48.5	55.0	6.5
	07:00 - 08:00	56.5	53.3	44.9	53.7	8.8
	08:00 - 09:00	50.1	46.5	44.3	47.6	3.3
	09:00 - 10:00	51.1	45.5	44.1	49.7	5.6
	10:00 - 11:00	52.2	44.7	43.8	51.3	7.5
Standard 6/7/						**≤10**

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq,R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.
Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 27-28, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันตก (UTM47Q 590823E, 1942314N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-52, RION, Serial No. 00830426
: Model NL-53, RION, Serial No. 00541048 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	11:00 - 12:00	50.5	43.9	42.8	49.4	6.6
	12:00 - 13:00	49.6	44.1	42.8	48.2	5.4
	13:00 - 14:00	53.1	45.4	43.5	52.3	8.8
	14:00 - 15:00	64.0	63.5	45.6	54.4	8.8
	15:00 - 16:00	54.0	52.7	44.8	48.1	3.3
	16:00 - 17:00	53.6	49.4	43.1	51.5	8.4
	17:00 - 18:00	55.1	53.4	43.9	50.2	6.3
	18:00 - 19:00	53.2	46.3	44.1	52.2	8.1
	19:00 - 20:00	56.7	52.3	49.8	54.7	4.9
	20:00 - 21:00	58.5	51.1	50.2	57.6	7.4
	21:00 - 22:00	59.7	56.1	49.7	57.2	7.5
Night Time	22:00 - 23:00	61.8	57.7	56.1	59.7	6.6
	23:00 - 00:00	62.7	62.1	49.4	53.8	7.4
	00:00 - 01:00	59.3	57.7	49.0	54.2	8.2
	01:00 - 02:00	61.9	61.2	48.2	53.6	8.4
	02:00 - 03:00	56.8	55.1	46.8	51.9	8.1
	03:00 - 04:00	54.6	54.0	48.1	45.7	0.6
	04:00 - 05:00	65.5	64.8	51.7	57.2	8.5
	05:00 - 06:00	65.5	65.1	48.5	54.9	9.4
Day Time	06:00 - 07:00	58.2	52.1	48.5	57.0	8.5
	07:00 - 08:00	52.8	44.9	43.8	52.0	8.2
	08:00 - 09:00	50.6	47.0	45.5	48.1	2.6
	09:00 - 10:00	53.5	46.7	45.4	52.5	7.1
	10:00 - 11:00	49.4	45.2	44.1	47.3	3.2
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

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(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-4 / 001-12 (Page 4 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 28-29, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันตก (UTM47Q 590823E, 1942314N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-52, RION, Serial No. 00830426
: Model NL-53, RION, Serial No. 00541048 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	11:00 - 12:00	47.1	42.2	40.7	45.4	4.7
	12:00 - 13:00	44.6	40.8	39.5	42.3	2.8
	13:00 - 14:00	50.6	44.0	40.9	49.5	8.6
	14:00 - 15:00	52.0	45.5	42.5	50.9	8.4
	15:00 - 16:00	54.4	53.9	42.4	44.8	2.4
	16:00 - 17:00	52.1	46.6	42.4	50.7	8.3
	17:00 - 18:00	54.2	49.4	44.5	52.5	8.0
	18:00 - 19:00	55.6	49.4	45.7	54.4	8.7
	19:00 - 20:00	53.5	48.9	47.7	51.7	4.0
	20:00 - 21:00	57.5	48.6	48.1	56.9	8.8
	21:00 - 22:00	61.7	61.1	59.8	52.8	0
Night Time	22:00 - 23:00	62.7	60.8	58.4	58.2	2.8
	23:00 - 00:00	63.4	61.0	60.0	59.7	2.7
	00:00 - 01:00	64.1	62.4	61.6	59.2	0.6
	01:00 - 02:00	63.0	60.7	59.6	59.1	2.5
	02:00 - 03:00	60.4	57.1	54.1	57.7	6.6
	03:00 - 04:00	60.1	57.6	52.7	56.5	6.8
	04:00 - 05:00	55.3	52.9	52.0	51.6	2.6
	05:00 - 06:00	56.5	53.4	52.7	53.6	3.9
Day Time	06:00 - 07:00	59.6	56.4	55.0	56.8	1.8
	07:00 - 08:00	57.8	55.8	52.3	53.5	1.2
	08:00 - 09:00	52.1	47.2	41.2	50.4	9.2
	09:00 - 10:00	52.0	49.1	41.7	48.9	7.2
	10:00 - 11:00	48.1	44.3	41.6	45.8	4.2
Standard 6/7/						**≤10**

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันตก (UTM47Q 590823E, 1942314N)
Measurement Date : September 29-30, 2025
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-52, RION, Serial No. 00830426
: Model NL-53, RION, Serial No. 00541048 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq,\ Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq,\ R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq,\ Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	11:00 - 12:00	48.0	41.5	39.2	46.9	7.7
	12:00 - 13:00	46.0	45.0	38.3	39.1	0.8
	13:00 - 14:00	46.3	44.2	40.1	42.1	2.0
	14:00 - 15:00	51.4	44.4	42.1	50.4	8.3
	15:00 - 16:00	51.5	45.4	42.8	50.3	7.5
	16:00 - 17:00	51.7	49.9	44.9	47.0	2.1
	17:00 - 18:00	51.8	48.7	46.8	48.9	2.1
	18:00 - 19:00	56.1	52.2	47.6	53.8	6.2
	19:00 - 20:00	55.7	47.6	47.2	55.0	7.8
	20:00 - 21:00	57.6	49.5	48.9	56.9	8.0
	21:00 - 22:00	57.2	48.9	48.3	56.5	8.2
Night Time	22:00 - 23:00	57.0	55.8	54.8	50.8	0
	23:00 - 00:00	58.9	52.8	51.4	57.7	9.3
	00:00 - 01:00	58.3	55.2	53.5	55.4	4.9
	01:00 - 02:00	60.2	56.6	53.9	57.7	6.8
	02:00 - 03:00	59.7	58.0	52.5	54.8	5.3
	03:00 - 04:00	61.1	58.6	55.2	57.5	5.3
	04:00 - 05:00	58.7	57.0	51.7	53.8	5.1
	05:00 - 06:00	57.7	54.2	51.4	55.1	6.7
Day Time	06:00 - 07:00	60.2	57.9	56.7	56.3	0
	07:00 - 08:00	59.3	58.4	54.4	52.0	0
	08:00 - 09:00	61.2	57.9	51.5	58.5	7.0
	09:00 - 10:00	51.0	50.5	49.3	41.4	0
	10:00 - 11:00	57.3	49.1	48.3	56.6	8.3
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq,\ R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Date : September 30-October 1, 2025
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันตก (UTM47Q 590823E, 1942314N)
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-52, RION, Serial No. 00830426
: Model NL-53, RION, Serial No. 00541048 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	11:00 - 12:00	52.4	46.0	44.1	51.3	7.2
	12:00 - 13:00	51.7	45.2	43.6	50.6	7.0
	13:00 - 14:00	49.7	48.2	44.9	44.4	0
	14:00 - 15:00	53.5	47.8	44.6	52.1	7.5
	15:00 - 16:00	52.3	46.7	44.6	50.9	6.3
	16:00 - 17:00	54.0	48.5	43.9	52.6	8.7
	17:00 - 18:00	51.0	44.1	42.9	50.0	7.1
	18:00 - 19:00	56.0	53.0	45.3	53.0	7.7
	19:00 - 20:00	54.6	53.6	43.9	47.7	3.8
	20:00 - 21:00	61.4	60.3	46.3	54.9	8.6
	21:00 - 22:00	62.4	61.7	47.0	54.1	7.1
Night Time	22:00 - 23:00	56.2	54.7	48.3	50.9	5.6
	23:00 - 00:00	60.6	58.2	51.1	56.9	8.8
	00:00 - 01:00	58.9	57.2	55.4	54.0	1.6
	01:00 - 02:00	59.6	55.8	53.7	57.3	6.6
	02:00 - 03:00	57.7	54.0	50.3	55.3	8.0
	03:00 - 04:00	60.4	58.5	53.0	55.9	5.9
	04:00 - 05:00	64.2	62.5	62.0	59.3	0.3
	05:00 - 06:00	61.2	57.0	56.2	59.1	5.9
Day Time	06:00 - 07:00	60.0	58.9	56.5	53.5	0
	07:00 - 08:00	54.5	46.3	44.7	53.8	9.1
	08:00 - 09:00	53.9	46.2	44.8	53.1	8.3
	09:00 - 10:00	49.9	48.5	45.5	44.3	0
	10:00 - 11:00	52.8	48.4	47.1	50.8	3.7
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-4 / 001-12 (Page 7 of 7) **Issued date:** November 26, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Nuisance Noise
Measurement Location : ริมรั้วกลุ่มบริษัทฯ ด้านทิศตะวันตก (UTM47Q 590823E, 1942314N)
Measurement Date : October 1-2, 2025
Measured By : Kittikhun Thaseephet
Calibrator Data : Model CR:515 Cirrus Research plc, Serial No. 88336
Calibration Value Reference : 94.0 dB(A) Pre Cal : 94.0 dB(A) Post Cal : 94.0 dB(A)
Sound Level Meter : Model NL-52, RION, Serial No. 00830426
: Model NL-53, RION, Serial No. 00541048 (Residual and Background Noise Level)

Duration	Time	Specific Sound Level ($L_{Aeq, Ts}$) [dB(A)] 1/	Residual Sound Level ($L_{Aeq, R}$) [dB(A)] 2/	Background Sound Level (L_{A90}) [dB(A)] 3/	Rating Level ($L_{Aeq, Tr}$) [dB(A)] 4/	Disturbance Level [dB(A)] 5/
Day Time	11:00 - 12:00	53.5	48.1	46.3	52.0	5.7
	12:00 - 13:00	55.3	49.1	45.7	54.1	8.4
	13:00 - 14:00	53.5	48.7	47.0	51.8	4.8
	14:00 - 15:00	57.0	54.1	45.9	53.9	8.0
	15:00 - 16:00	61.2	60.7	59.5	51.6	0
	16:00 - 17:00	61.8	61.5	59.8	50.0	0
	17:00 - 18:00	62.1	61.6	60.0	52.5	0
	18:00 - 19:00	63.6	62.5	61.7	57.1	0
	19:00 - 20:00	62.4	61.2	60.0	56.2	0
	20:00 - 21:00	58.8	55.9	54.3	55.7	1.4
	21:00 - 22:00	58.2	56.7	54.1	52.9	0
Night Time	22:00 - 23:00	55.4	54.5	51.9	48.1	0
	23:00 - 00:00	55.7	53.5	52.8	51.7	1.9
	00:00 - 01:00	65.1	64.2	54.8	57.8	6.0
	01:00 - 02:00	61.3	60.4	53.4	54.0	3.6
	02:00 - 03:00	56.3	54.7	48.3	51.2	5.9
	03:00 - 04:00	57.6	56.7	45.0	50.3	8.3
	04:00 - 05:00	57.8	57.2	43.9	48.9	8.0
	05:00 - 06:00	50.7	46.5	45.7	48.6	5.9
Day Time	06:00 - 07:00	46.3	46.0	44.6	34.5	0
	07:00 - 08:00	45.6	45.1	43.5	36.0	0
	08:00 - 09:00	50.1	45.7	42.4	48.1	5.7
	09:00 - 10:00	52.4	45.5	44.1	51.4	7.3
	10:00 - 11:00	50.9	44.6	43.3	49.7	6.4
Standard 6/7/						≤10

Remarks:
1/ Specific Sound Level is sound level in the environment during emission from a source of complaint or potential public disturbance, measured in term of "$L_{Aeq\ 1\ hr}$" in day time and "$L_{Aeq\ 5\ min}$" in night time.
2/ Residual Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Residual Sound Level is measured in term of "$L_{Aeq, R}$".
3/ Background Sound Level is sound level in the existing environment which is not disturbed by activities of factory. Background Sound Level is measured in term of "L_{A90}".
4/ Rating Level is sound level calculated from Specific Sound Level and Residual Sound Level and adding sound level in specific condition.
5/ If the Disturbance Level value exceed 10 dB(A), it will be considered as Nuisance Noise.

Sources:
6/ Notification of the National Environment Board No.29, B.E. 2550 (2007), published in the Royal Government Gazette, Vol.124, Special Part 98D, dated August 16, B.E. 2550 (2007).
7/ Notification of Ministry of Industry, B.E. 2548 (2005), published in the Royal Government Ga[redacted]5, B.E. 2549 (2006).

Approved by [redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 016-1 (Page 1 of 2) Issued date : August 18, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
Tel: 055-609-100#1512, Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality **SAMPLING DATE** : July 1, 2025
SAMPLING METHOD : Grab Sampling **SAMPLING TIME** : 10:08 hr.
SAMPLING LOCATION : บริเวณอ่างเก็บน้ำห้วยสัก (UTM47Q 0591296E, 1945310N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]
Temperature	°C	APHA, 2550 B	30.1	**N[2/]**
pH	-	APHA, 4500-H^+ B	7.2	**5.0-9.0**
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	8.0	**≥4.0**
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	4	**≤2.0**
Total Dissolved Solids (TDS)	mg/l	APHA, 2540 C	171	**-**
Chloride (Cl)	mg/l	APHA, 4500-Cl D	11	**-**
Nitrate-Nitrogen (NO_3-N)	mg/l	APHA, 4110 B	<0.005	**≤5.0**
Ammonia-Nitrogen (NH_3-N)	mg/l	ASTM D 1426-08	0.046	**≤0.5**
Manganese (Mn)	mg/l	APHA, 3120 B	0.11	**≤1.0**
Sodium (Na)	mg/l	APHA, 3120 B	9.03	**-**
Arsenic (As)	mg/l	APHA, 3114 C	<0.001	**≤0.01**
Lead (Pb)	mg/l	APHA, 3120 B	<0.01	**≤0.05**
Cadmium (Cd)	mg/l	APHA, 3120 B	<0.002	**≤0.005[3/] / ≤0.05[4/]**
Mercury (Hg)	mg/l	APHA, 3112 B	<0.0005	**≤0.002**

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: [1/] Notification of National Environment Board No.8, B.E.2537 (1994), published in the Royal Government Gazette, Vol.111, Special Part 16D, dated February 24, B.E. 2537 (1994).
Classification of surface water Class 3: Medium clean fresh surface water resource used for:
1) Consumption, but passing through an ordinary treatment process before use 2) Agriculture

[2/] N' = Naturally but changing by no more than 3 °C
[3/] In case of hardness (CaCO3) of water not more than 100 mg/l
[4/] In case of hardness (CaCO3) of water more than 100 mg/l

[redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 016-1 (Page 2 of 2) Issued date : August 18, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
Tel: 055-609-100#1512, Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality **SAMPLING DATE** : July 1, 2025
SAMPLING METHOD : Grab Sampling **SAMPLING TIME** : 10:08 hr.
SAMPLING LOCATION : บริเวณอ่างเก็บน้ำห้วยสัก (UTM47Q 0591296E, 1945310N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]
Sodium Adsorption Ratio (SAR)	-	Calculate from Na, Ca and Mg	0.44	-
Suspended Solids (SS)	mg/l	APHA, 2540 D	12	-
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	70	**≤20,000**
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 C	6.8	**≤4,000**
Flow rate	m/s	Flow Rate Meter	0.660	-
Depth	m	Water Level Meter	1.6	-
Oil & Grease	mg/l	APHA, 5520 B	<2	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Source: 1/ Notification of National Environment Board No.8, B.E.2537 (1994), published in the Royal Government Gazette, Vol.111, Special Part 16D, dated February 24, B.E. 2537 (1994).
Classification of surface water Class 3: Medium clean fresh surface water resource used for:
1) Consumption, but passing through an ordinary treatment process before use 2) Agriculture.

[redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 016-2 (Page 1 of 2) Issued date : August 18, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
Tel: 055-609-100#1512, Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality **SAMPLING DATE** : July 1, 2025
SAMPLING METHOD : Grab Sampling **SAMPLING TIME** : 11:20 hr.
SAMPLING LOCATION : บริเวณห้วยหนองเขน (บริเวณจุดผันน้ำของโรงงานผลิตน้ำตาลทราย) (UTM 47Q 0591552E, 1942318N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]
Temperature	°C	APHA, 2550 B	28.9	**N[2/]**
pH	-	APHA, 4500-H^+ B	7.2	**5.0-9.0**
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	6.3	**≥4.0**
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	4	**≤2.0**
Total Dissolved Solids (TDS)	mg/l	APHA, 2540 C	403	**-**
Chloride (Cl)	mg/l	APHA, 4500-Cl D	55	**-**
Nitrate-Nitrogen (NO_3-N)	mg/l	APHA, 4110 B	<0.005	**≤5.0**
Ammonia-Nitrogen (NH_3-N)	mg/l	ASTM D 1426-08	0.272	**≤0.5**
Manganese (Mn)	mg/l	APHA, 3120 B	0.37	**≤1.0**
Sodium (Na)	mg/l	APHA, 3120 B	70.73	**-**
Arsenic (As)	mg/l	APHA, 3114 C	0.001	**≤0.01**
Lead (Pb)	mg/l	APHA, 3120 B	<0.01	**≤0.05**
Cadmium (Cd)	mg/l	APHA, 3120 B	<0.002	**≤0.005[3/] / ≤0.05[4/]**
Mercury (Hg)	mg/l	APHA, 3112 B	0.0005	**≤0.002**

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: [1/] Notification of National Environment Board No.8, B.E.2537 (1994), published in the Royal Government Gazette, Vol.111, Special Part 16D, dated February 24, B.E. 2537 (1994).
Classification of surface water Class 3: Medium clean fresh surface water resource used for:
1) Consumption, but passing through an ordinary treatment process before use 2) Agriculture

[2/] N' = Naturally but changing by no more than 3 °C
[3/] In case of hardness (CaCO3) of water not more than 100 mg/l
[4/] In case of hardness (CaCO3) of water more than 100 mg/l

[redacted]
(Thepsan Yommana)
Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2025-500004791-1 / 016-2 (Page 2 of 2) Issued date : August 18, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
Tel: 055-609-100#1512, Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality **SAMPLING DATE** : July 1, 2025
SAMPLING METHOD : Grab Sampling **SAMPLING TIME** : 11:20 hr.
SAMPLING LOCATION : บริเวณห้วยหนองเขน (บริเวณจุดผันน้ำของโรงงานผลิตน้ำตาลทราย) (UTM 47Q 0591552E, 1942318N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]
Sodium Adsorption Ratio (SAR)	-	Calculate from Na, Ca and Mg	2.72	-
Suspended Solids (SS)	mg/l	APHA, 2540 D	<2.5	-
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	700	**≤20,000**
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 C	70	**≤4,000**
Flow rate	m/s	Flow Rate Meter	3.662	-
Depth	m	Water Level Meter	1.7	-
Oil & Grease	mg/l	APHA, 5520 B	<2	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Source: 1/ Notification of National Environment Board No.8, B.E.2537 (1994), published in the Royal Government Gazette, Vol.111, Special Part 16D, dated February 24, B.E. 2537 (1994).
Classification of surface water Class 3: Medium clean fresh surface water resource used for:
1) Consumption, but passing through an ordinary treatment process before use 2) Agriculture.

[redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 016-3 (Page 1 of 2) Issued date : August 18, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD**
CONTACT : Khun Wanutsuda Chompusri
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Tel: 055-609-100#1512, 081-887-9523 Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality **SAMPLING DATE** : July 1, 2025
SAMPLING METHOD : Grab Sampling **SAMPLING TIME** : 14:22 hr.
SAMPLING LOCATION : บริเวณห้วยหนองเขน (ท้ายน้ำหลังผ่านจุดผันน้ำของ โรงงานผลิตน้ำตาลทราย)
(UTM 47Q 0591532E, 1940558N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]
Temperature	°C	APHA, 2550 B	29.9	**N[2/]**
pH	-	APHA, 4500-H^+ B	7.6	**5.0-9.0**
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	8.0	**≥4.0**
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	6	**≤2.0**
Total Dissolved Solids (TDS)	mg/l	APHA, 2540 C	1,209	**-**
Chloride (Cl)	mg/l	APHA, 4500-Cl D	313	**-**
Nitrate-Nitrogen (NO^-_3-N)	mg/l	APHA, 4110 B	0.008	**≤5.0**
Ammonia-Nitrogen (NH_3-N)	mg/l	ASTM D 1426-08	0.554	**≤0.5**
Manganese (Mn)	mg/l	APHA, 3120 B	0.52	**≤1.0**
Sodium (Na)	mg/l	APHA, 3120 B	325.00	**-**
Arsenic (As)	mg/l	APHA, 3114 C	0.006	**≤0.01**
Lead (Pb)	mg/l	APHA, 3120 B	<0.01	**≤0.05**
Cadmium (Cd)	mg/l	APHA, 3120 B	<0.002	**≤0.005[3/] / ≤0.05[4/]**
Mercury (Hg)	mg/l	APHA, 3112 B	<0.0005	**≤0.002**

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: [1/] Notification of National Environment Board No.8, B.E.2537 (1994), published in the Royal Government Gazette, Vol.111, Special Part 16D, dated February 24, B.E. 2537 (1994).
Classification of surface water Class 3: Medium clean fresh surface water resource used for:
1) Consumption, but passing through an ordinary treatment process before use 2) Agriculture

[2/] N' = Naturally but changing by no more than 3 °C
[3/] In case of hardness (CaCO3) of water not more than 100 mg/l
[4/] In case of hardness (CaCO3) of water more than 100 mg/l

[redacted]
(Thepsan Yommana)
Technical Manager

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CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD**
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E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality **SAMPLING DATE :** July 1, 2025
SAMPLING METHOD : Grab Sampling **SAMPLING TIME :** 14:22 hr.
SAMPLING LOCATION : บริเวณห้วยหนองเขน (ท้ายน้ำหลังผ่านจุดผันน้ำของ โรงงานผลิตน้ำตาลทราย)
(UTM 47Q 0591532E, 1940558N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]
Sodium Adsorption Ratio (SAR)	-	Calculate from Na, Ca and Mg	14.77	-
Suspended Solids (SS)	mg/l	APHA, 2540 D	11	-
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	330	**≤20,000**
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 C	33	**≤4,000**
Flow rate	m/s	Flow Rate Meter	0.976	-
Depth	m	Water Level Meter	2.1	-
Oil & Grease	mg/l	APHA, 5520 B	<2	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Source: [1/] Notification of National Environment Board No.8, B.E.2537 (1994), published in the Royal Government Gazette, Vol.111, Special Part 16D, dated February 24, B.E. 2537 (1994).
Classification of surface water Class 3: Medium clean fresh surface water resource used for:
1) Consumption, but passing through an ordinary treatment process before use 2) Agriculture

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(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 005-1 (Page 1 of 1) Issued date : August 6, 2025

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Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อปรับค่า pH (P1) (High BOD)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 14.30 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result
pH	-	APHA, 4500-H^+ B	7.8
Temperature	C°	APHA, 2550B	32.2
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	4
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	56
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	1,035
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	7.5
Oil and Grease	mg/L	APHA, 5520 B	<2
Total Kjeldahl Nitrogen (TKN)	mg/L	APHA, 4500-Norg B and 4500-NH^3-C	<1.0
Sulfide as H_2S	mg/L	APHA, 4500-S^{2-} D	<0.02
Lead (Pb)	mg/L	APHA, 3120 B	<0.01
Cadmium (Cd)	mg/L	APHA, 3120 B	<0.002
Arsenic (As)	mg/L	APHA, 3114 C	0.008
Mercury (Hg)	mg/L	APHA, 3112 B	<0.0005
Electrical Conductivity (EC)	µS/cm	APHA, 2510 B	1,658
Sodium Adsorption Ratio (SAR)	-	Calculation	24.07

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

[redacted]
(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 005-1 (Page 1 of 1) Issued date : August 6, 2025

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E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อปรับค่า pH (P1) (High BOD)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 14.30 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result
pH	-	APHA, 4500-H^+ B	7.8
Temperature	C°	APHA, 2550B	32.2
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	4
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	56
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	1,035
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	7.5
Oil and Grease	mg/L	APHA, 5520 B	<2
Total Kjeldahl Nitrogen (TKN)	mg/L	APHA, 4500-Norg B and 4500-NH^3-C	<1.0
Sulfide as H_2S	mg/L	APHA, 4500-S^{2-} D	<0.02
Lead (Pb)	mg/L	APHA, 3120 B	<0.01
Cadmium (Cd)	mg/L	APHA, 3120 B	<0.002
Arsenic (As)	mg/L	APHA, 3114 C	0.008
Mercury (Hg)	mg/L	APHA, 3112 B	<0.0005
Electrical Conductivity (EC)	µS/cm	APHA, 2510 B	1,658
Sodium Adsorption Ratio (SAR)	-	Calculation	24.07

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

[redacted]
(Thepsan Yommana)
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Report No. : 2025-500004791-1 / 005-2 (Page 1 of 2) Issued date : August 6, 2025

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Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อพักน้ำทิ้ง (P9) (High BOD)
LABORATORY NAME : SGS (Thailand) Limited (ว-197)
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 14.39 hr.
SAMPLING BY : Sompong Katkhuntod (ว-197-จ-0008)

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	8.6	**5.5-9.0**	**5.5-9.0**
Temperature	C°	APHA, 2550B	31.6	**≤40**	-
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	<2	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	<40	**≤120**	**≤120**
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	1,197	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	4.9	**≤50**	**≤50**
Oil and Grease	mg/L	APHA, 5520 B	<2	**≤5**	**≤5**
Total Kjeldahl Nitrogen (TKN)	mg/L	APHA, 4500-N_{org} B and 4500-NH^3-C	<1.00	**≤100**	**≤100**
Sulfide as H_2S	mg/L	APHA, 4500-S^{2-} D	<0.02	**≤1**	-
Lead (Pb)	mg/L	APHA, 3120 B	<0.01	**≤0.02**	-
Cadmium (Cd)	mg/L	APHA, 3120 B	<0.002	**≤0.03**	-
Arsenic (As)	mg/L	APHA, 3114 C	0.012	**≤0.25**	-
Mercury (Hg)	mg/L	APHA, 3112 B	<0.0005	**≤0.005**	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: [1/] Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
[2/] Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

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E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อพักน้ำทิ้ง (P9) (High BOD)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 14.39 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Electrical Conductivity (EC)	µS/cm	APHA, 2510 B	1,985	-	-
Sodium Adsorption Ratio (SAR)	-	Calculation	14.25	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: [1/] Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
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(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 005-3 (Page 1 of 2) Issued date : August 6, 2025

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Tel: 055-609-100#1512, Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality **SAMPLING DATE** : July 4, 2025
SAMPLING METHOD : Grab Sampling **SAMPLING TIME** : 14.18 hr.
SAMPLING LOCATION : บ่อตรวจคุณภาพน้ำ 2 (P10) (Low BOD)
LABORATORY NAME : SGS (Thailand) Limited (ว-197) **SAMPLING BY** : Sompong Katkhuntod (ว-197-จ-0008)

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	7.8	**5.5-9.0**	**5.5-9.0**
Temperature	C°	APHA, 2550B	32.6	**≤40**	**-**
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	1,229	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	12	**≤50**	**≤50**
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	15	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	63	**≤120**	**≤120**

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: [1/] Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

[2/] Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

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Report No. : 2025-500004791-1 / 005-3 (Page 2 of 2) Issued date : August 6, 2025

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E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อตรวจคุณภาพน้ำ 2 (P10) (Low BOD)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : July 6, 2025
SAMPLING TIME : 14.18 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Sodium Adsorption Ratio (SAR)	-	Calculation	33.65	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: [1/] Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

[2/] Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

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Technical Manager

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Report No. : 2025-500004791-1 / 005-4 (Page 1 of 2) Issued date : August 6, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
Tel: 055-609-100#1512, Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อพักน้ำทิ้ง (P11) (Low BOD)
LABORATORY NAME : SGS (Thailand) Limited (ว-197)
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 14.25 hr.
SAMPLING BY : Sompong Katkhuntod (ว-197-จ-0008)

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	8.7	**5.5-9.0**	**5.5-9.0**
Temperature	C°	APHA, 2550B	34.0	**≤40**	**-**
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	1,410	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	10	**<50**	**≤50**
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	3	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	44	**<120**	**≤120**

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.
Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).



Technical Manager
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CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
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E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อพักน้ำทิ้ง (P11) (Low BOD)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 14.25 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/2/]	Standard[3/]
Sodium Adsorption Ratio (SAR)	-	Calculation	29.77	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

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(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-2 / 001-1 (Page 1 of 1) Issued date : August 29, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
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E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อปรับค่า pH (P1) (High BOD)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : August 6, 2025
SAMPLING TIME : 13.50 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result
pH	-	APHA, 4500-H^+ B	8.5
Temperature	C°	APHA, 2550B	32.2
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	8
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	<40
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	966
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	5.5
Oil and Grease	mg/L	APHA, 5520 B	<2
Total Kjeldahl Nitrogen (TKN)	mg/L	APHA, 4500-Norg B and 4500-NH^3-C	<1.00
Sulfide as H_2S	mg/L	APHA, 4500-S^{2-} D	<0.02
Lead (Pb)	mg/L	APHA, 3120 B	<0.01
Cadmium (Cd)	mg/L	APHA, 3120 B	<0.002
Arsenic (As)	mg/L	APHA, 3114 C	0.008
Mercury (Hg)	mg/L	APHA, 3112 B	<0.0005
Electrical Conductivity (EC)	µS/cm	APHA, 2510 B	1,504
Sodium Adsorption Ratio (SAR)	-	Calculation	20.56

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

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Report No. : 2025-500004791-2 / 001-2 (Page 1 of 2) Issued date : August 29, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
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E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อพักน้ำทิ้ง (P9) (High BOD)
LABORATORY NAME : SGS (Thailand) Limited (ว-197)
SAMPLING DATE : August 6, 2025
SAMPLING TIME : 14.15 hr.
SAMPLING BY : Sompong Katkhuntod (ว-197-จ-0008)

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	8.6	**5.5-9.0**	**5.5-9.0**
Temperature	C°	APHA, 2550B	29.4	**≤40**	-
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	10	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	51	**≤120**	**≤120**
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	1,185	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	11	**≤50**	**≤50**
Oil and Grease	mg/L	APHA, 5520 B	<2	**≤5**	**≤5**
Total Kjeldahl Nitrogen (TKN)	mg/L	APHA, 4500-N_{org} B and 4500-NH^3-C	<1.00	**≤100**	**≤100**
Sulfide as H_2S	mg/L	APHA, 4500-S^{2-} D	<0.02	**≤1**	-
Lead (Pb)	mg/L	APHA, 3120 B	<0.01	**≤0.02**	-
Cadmium (Cd)	mg/L	APHA, 3120 B	<0.002	**≤0.03**	-
Arsenic (As)	mg/L	APHA, 3114 C	0.014	**≤0.25**	-
Mercury (Hg)	mg/L	APHA, 3112 B	<0.0005	**≤0.005**	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: [1/] Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
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CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
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E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อพักน้ำทิ้ง (P9) (High BOD)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : August 6, 2025
SAMPLING TIME : 14.15 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Electrical Conductivity (EC)	µS/cm	APHA, 2510 B	1,838	-	-
Sodium Adsorption Ratio (SAR)	-	Calculation	13.30	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
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CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
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E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality **SAMPLING DATE** : August 6, 2025
SAMPLING METHOD : Grab Sampling **SAMPLING TIME** : 13.27 hr.
SAMPLING LOCATION : บ่อตรวจคุณภาพน้ำ 2 (P10) (Low BOD)
LABORATORY NAME : SGS (Thailand) Limited (ว-197) **SAMPLING BY** : Sompong Katkhuntod (ว-197-จ-0008)

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	8.9	**5.5-9.0**	**5.5-9.0**
Temperature	C°	APHA, 2550B	34.9	**≤40**	-
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	2,092	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	9.0	**≤50**	**≤50**
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	12	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	64	**≤120**	**≤120**

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: [1/] Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
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Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อตรวจคุณภาพน้ำ 2 (P10) (Low BOD)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : August 6, 2025
SAMPLING TIME : 13.27 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Sodium Adsorption Ratio (SAR)	-	Calculation	62.64	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: [1/] Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
[2/] Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

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Report No. : 2025-500004791-2 / 001-4 (Page 1 of 2) Issued date : August 25, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
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E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อพักน้ำทิ้ง (P11) (Low BOD)
LABORATORY NAME : SGS (Thailand) Limited (ว-197)
SAMPLING DATE : August 6, 2025
SAMPLING TIME : 13.42 hr.
SAMPLING BY : Sompong Katkhuntod (ว-197-จ-0008)

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	8.8	**5.5-9.0**	**5.5-9.0**
Temperature	C°	APHA, 2550B	35.5	**≤40**	-
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	1,740	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	8.3	**<50**	**≤50**
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	15	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	70	**<120**	**≤120**

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
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Report No. : 2025-500004791-2 / 001-4 (Page 2 of 2) Issued date : August 25, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
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E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Wastewater Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บ่อพักน้ำทิ้ง (P11) (Low BOD)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : August 6, 2025
SAMPLING TIME : 13.42 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/2/]	Standard[3/]
Sodium Adsorption Ratio (SAR)	-	Calculation	42.66	-	-
Dissolved Oxygen (DO)	Mg/L	APHA, 4500-O C	8.3	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
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(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-3 / 001-1 (Page 1 of 1) **Issued date:** September 29, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อปรับค่า pH (P1) (High BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Yellow, Clear, Odorless and Little Sediment

Sampling Date : September 3, 2025
Sampling Time : 11.36 hr.
Received Date : September 8, 2025
Analysis Date : September 8-23, 2025

Parameter	Unit	Method	Result
pH	-	APHA, 4500-H^+ B	8.2
Temperature	C°	APHA, 2550B	30.2
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	2.7
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	61
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	774
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	3.8
Oil and Grease	mg/L	APHA, 5520 B	4
Total Kjeldahl Nitrogen (TKN)	mg/L	APHA, 4500-Norg B and 4500-NH^3-C	2.3
Sulfide as H_2S	mg/L	APHA, 4500-S^{2-} D	<0.02
Lead (Pb)	mg/L	APHA, 3120 B	<0.01
Cadmium (Cd)	mg/L	APHA, 3120 B	<0.002
Arsenic (As)	mg/L	APHA, 3114 C	0.006
Mercury (Hg)	mg/L	APHA, 3112 B	<0.0005
Electrical Conductivity (EC)	µS/cm	APHA, 2510 B	1,253
Sodium Adsorption Ratio (SAR)	-	Calculation	8.77

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500004971-3 / 001-2 (Page 1 of 2) **Issued date:** September 29, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P9) (High BOD)
Sampling By : Sompong Katkhuntod (ว-197-จ-0008)
Laboratory Name : SGS (Thailand) Limited (ว-197)
Sampling Condition : Yellow, Clear, Odorless and little sediment.

Sampling Date : September 3, 2025
Sampling Time : 11.47 hr.
Received Date : September 8, 2025
Analysis Date : September 8-23, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	8.4	**5.5-9.0**	**5.5-9.0**
Temperature	C°	APHA, 2550B	28.8	**≤40**	-
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	5.6	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	61	**≤120**	**≤120**
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	1,039	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	5.2	**≤50**	**≤50**
Oil and Grease	mg/L	APHA, 5520 B	<2	**≤5**	**≤5**
Total Kjeldahl Nitrogen (TKN)	mg/L	APHA, 4500-N_{org} B and 4500-NH^3-C	2.3	**≤100**	**≤100**
Sulfide as H_2S	mg/L	APHA, 4500-S^{2-} D	<0.02	**≤1**	-
Lead (Pb)	mg/L	APHA, 3120 B	<0.01	**≤0.02**	-
Cadmium (Cd)	mg/L	APHA, 3120 B	<0.002	**≤0.03**	-
Arsenic (As)	mg/L	APHA, 3114 C	0.012	**≤0.25**	-
Mercury (Hg)	mg/L	APHA, 3112 B	<0.0005	**≤0.005**	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.
Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head
License ID: ว-197-ค-0004

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager
License ID: ว-197-ค-0005

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Report No. : 2025-500004971-3 / 001-2 (Page 2 of 2) **Issued date:** September 29, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P9) (High BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Yellow, Clear, Odorless and little sediment.

Sampling Date : September 3, 2025
Sampling Time : 11.47 hr.
Received Date : September 8, 2025
Analysis Date : September 8-23, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Electrical Conductivity (EC)	µS/cm	APHA, 2510 B	1,649	-	-
Sodium Adsorption Ratio (SAR)	-	Calculation	10.59	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.
Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
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Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500004971-3 / 001-3 (Page 1 of 2) **Issued date:** October 09, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อตรวจคุณภาพน้ำ 2 (P10) (Low BOD)
Sampling By : Sompong Katkhuntod (ว-197-จ-0008)
Laboratory Name : SGS (Thailand) Limited (ว-197)
Sampling Condition : Brown, Clear, Odorless and Little Sediment.

Sampling Date : September 3, 2025
Sampling Time : 11.15 hr.
Received Date : September 8, 2025
Analysis Date : September 8-23, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	9.3	**5.5-9.0**	**5.5-9.0**
Temperature	C°	APHA, 2550B	34.9	**≤40**	-
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	3,118	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	12.0	**≤50**	**≤50**
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	11	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	58	**≤120**	**≤120**

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.
Sources: [1/] Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
[2/] Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head
License ID: ว-197-ค-0004

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager
License ID: ว-197-ค-0005

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Report No. : 2025-500004971-3 / 001-3 (Page 2 of 2) **Issued date:** October 09, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อตรวจคุณภาพน้ำ 2 (P10) (Low BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Brown, Clear, Odorless and Little Sediment.

Sampling Date : September 3, 2025
Sampling Time : 11.15 hr.
Received Date : September 8, 2025
Analysis Date : September 8-23, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Sodium Adsorption Ratio (SAR)	-	Calculation	76.77	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500004971-3 / 001-4 (Page 1 of 2) **Issued date:** September 29, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P11) (Low BOD)
Sampling By : Sompong Katkhuntod (ว-197-จ-0008)
Laboratory Name : SGS (Thailand) Limited (ว-197)
Sampling Condition : Brown, Clear and Odorless with Sediment.

Sampling Date : September 3, 2025
Sampling Time : 11.28 hr.
Received Date : September 8, 2025
Analysis Date : September 8-23, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	8.8	**5.5-9.0**	**5.5-9.0**
Temperature	C°	APHA, 2550B	33.1	**≤40**	-
Total Dissolved Solids (TDS)	mg/L	APHA, 2540 D	1,408	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	APHA, 2540 C	19.0	**<50**	**≤50**
Biochemical Oxygen Demand (BOD)	mg/L	APHA, 5210 B	8.0	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	APHA, 5220 C	94.0	**<120**	**≤120**

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head
License ID: ว-197-ค-0004

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager
License ID: ว-197-ค-0005

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Report No. : 2025-500004971-3 / 001-4 (Page 2 of 2) **Issued date:** September 29, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P11) (Low BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Brown, Clear and Odorless with Sediment.

Sampling Date : September 3, 2025
Sampling Time : 11.28 hr.
Received Date : September 8, 2025
Analysis Date : September 8-23, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Sodium Adsorption Ratio (SAR)	-	Calculation	23.59	-	-
Dissolved Oxygen (DO)	mg/L	APHA, 4500-O C	7	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500005623 / 001-1 (Page 1 of 1) **Issued date:** October 27, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อปรับค่า pH (P1) (High BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Brown, Clear, Odorless with Sediment.

Sampling Date : October 1, 2025
Sampling Time : 10.55 hr.
Received Date : October 3, 2025
Analysis Date : October 3-24, 2025

Parameter	Unit	Method	Result
pH	-	SM 4500-H^+ B	7.8
Temperature	C°	SM 2550 B	28.8
Biochemical Oxygen Demand (BOD)	mg/L	SM 4500-O G and 5210 B	5
Chemical Oxygen Demand (COD)	mg/L	SM 5220 C	51
Total Dissolved Solids (TDS)	mg/L	SM 2540 C	1,719
Total Suspended Solids (TSS)	mg/L	SM 2540 D	5.9
Oil and Grease	mg/L	SM 5520 B	<2
Total Kjeldahl Nitrogen (TKN)	mg/L	SM 4500-N_{org} B and 4500-NH_3 C	<1.00
Sulfide	mg/L	SM 4500-S^{2-} D	<0.02
Lead (Pb)	mg/L	SM 3030 K and 3120 B	<0.01
Cadmium (Cd)	mg/L	SM 3030 K and 3120 B	<0.002
Arsenic (As)	mg/L	SM 3030 K and 3114 C	0.037
Mercury (Hg)	mg/L	SM 3030 K and 3112 B	<0.0005
Electrical Conductivity (EC)	µS/cm	SM 2510 B	2,370
Sodium Adsorption Ratio (SAR)	-	Calculation	2.35

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

SGS (THAILAND) LIMITED

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LABORATORY ADDRESS: 1/209, and 1/211 Moo1, Soi Sukhumvit 2, Banchang, Banchang, Rayong, 21130

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Report No. : 2025-500005623 / 001-2 (Page 1 of 2) **Issued date:** October 27, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P9) (High BOD)
Sampling By : Sompong Katkhuntod (ว-197-จ-0008)
Laboratory Name : SGS (Thailand) Limited (ว-197)
Sampling Condition : Green, Turbid, Odorless with sediment.

Sampling Date : October 1, 2025
Sampling Time : 11.04 hr.
Received Date : October 3, 2025
Analysis Date : October 3-27, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	SM 4500-H^+ B	8.9	**5.5-9.0**	**5.5-9.0**
Temperature	C°	SM 2550 B	28.5	**≤40**	-
Biochemical Oxygen Demand (BOD)	mg/L	SM 4500-O^- G and 5210 B	9	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	SM 5220 C	64	**≤120**	**≤120**
Total Dissolved Solids (TDS)	mg/L	SM 2540 C	1,082	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	SM 2540 D	16.0	**≤50**	**≤50**
Oil and Grease	mg/L	SM 5520 B	<2	**≤5**	**≤5**
Total Kjeldahl Nitrogen (TKN)	mg/L	SM 4500-N_{org} B and 4500-NH_3 C	<1.00	**≤100**	**≤100**
Sulfide as H_2S	mg/L	SM 4500-S^{2-} D	<0.02	**≤1**	-
Lead (Pb)	mg/L	SM 3030 K and 3120 B	<0.01	**≤0.02**	-
Cadmium (Cd)	mg/L	SM 3030 K and 3120 B	<0.002	**≤0.03**	-
Arsenic (As)	mg/L	SM 3030 K and 3114 C	0.011	**≤0.25**	-
Mercury (Hg)	mg/L	SM 3030 K and 3112 B	<0.0005	**≤0.005**	-

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: [1/] Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

[2/] Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head
License ID: ว-197-ค-0004

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager
License ID: ว-197-ค-0005

SGS (THAILAND) LIMITED

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LABORATORY ADDRESS: 1/209, and 1/211 Moo1, Soi Sukhumvit 2, Banchang, Banchang, Rayong, 21130

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Report No. : 2025-500005623/ 001-2 (Page 2 of 2) **Issued date:** October 27, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P9) (High BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Green, Turbid, Odorless with sediment.

Sampling Date : October 1, 2025
Sampling Time : 11.04 hr.
Received Date : October 3, 2025
Analysis Date : October 3-27, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Electrical Conductivity (EC)	µS/cm	SM 2510 B	1,353	-	-
Sodium Adsorption Ratio (SAR)	-	Calculation	10.01	-	-

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.
Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500005623 / 001-4 (Page 1 of 2) **Issued date:** October 27, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P11) (Low BOD)
Sampling By : Sompong Katkhuntod (ว-197-จ-0008)
Laboratory Name : SGS (Thailand) Limited (ว-197)
Sampling Condition : Brown, Turbid and Odorless with Sediment.

Sampling Date : October 1, 2025
Sampling Time : 10.48 hr.
Received Date : October 3, 2025
Analysis Date : October 3-27, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	SM 4500-H^+ B	8.7	**5.5-9.0**	**5.5-9.0**
Temperature	C°	SM 2550 B	30.0	**≤40**	-
Total Dissolved Solids (TDS)	mg/L	SM 2540 C	1,218	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	SM 2540 D	23	**<50**	**≤50**
Biochemical Oxygen Demand (BOD)	mg/L	SM 4500-O^- G and 5210 B	3	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	SM 5220 C	64	**<120**	**≤120**

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.
Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head
License ID: ว-197-ค-0004

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager
License ID: ว-197-ค-0005

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Report No. : 2025-500005623 / 001-4 (Page 2 of 2) **Issued date:** September 29, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P11) (Low BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Brown, Turbid and Odorless with Sediment.

Sampling Date : October 1, 2025
Sampling Time : 10.48 hr.
Received Date : October 3, 2025
Analysis Date : October 3-27, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Sodium Adsorption Ratio (SAR)	-	Calculation	17.00	-	-
Dissolved Oxygen (DO)	mg/L	SM 4500-O C	6.3	-	-

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

SGS (THAILAND) LIMITED

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LABORATORY ADDRESS: 1/209, and 1/211 Moo1, Soi Sukhumvit 2, Banchang, Banchang, Rayong, 21130

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Report No. : 2025-500005623-2 / 001-1 (Page 1 of 1) **Issued date:** December 3, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อปรับค่า pH (P1) (High BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Green, Clear, Odorless with Sediment.

Sampling Date : November 5, 2025
Sampling Time : 13.56 hr.
Received Date : November 10, 2025
Analysis Date : November 10-December 2, 2025

Parameter	Unit	Method	Result
pH	-	SM 4500-H^+ B	8.9
Temperature	C°	SM 2550 B	29.3
Biochemical Oxygen Demand (BOD)	mg/L	SM 4500-O G and 5210 B	18
Chemical Oxygen Demand (COD)	mg/L	SM 5220 C	70
Total Dissolved Solids (TDS)	mg/L	SM 2540 C	1,332
Total Suspended Solids (TSS)	mg/L	SM 2540 D	175
Oil and Grease	mg/L	SM 5520 B	<2
Total Kjeldahl Nitrogen (TKN)	mg/L	SM 4500-N_{org} B and 4500-NH_3 C	<1.00
Sulfide	mg/L	SM 4500-S^{2-} D	0.05
Lead (Pb)	mg/L	SM 3030 K and 3120 B	<0.01
Cadmium (Cd)	mg/L	SM 3030 K and 3120 B	<0.002
Arsenic (As)	mg/L	SM 3030 K and 3114 C	0.046
Mercury (Hg)	mg/L	SM 3030 K and 3112 B	<0.0005
Electrical Conductivity (EC)	µS/cm	SM 2510 B	2,107
Sodium Adsorption Ratio (SAR)	-	Calculation	1.92

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

SGS (THAILAND) LIMITED

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Report No. : 2025-500005623-2 / 001-2 (Page 1 of 2) **Issued date:** December 12, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P9) (High BOD)
Sampling By : Sompong Katkhuntod (ว-197-จ-0008)
Laboratory Name : SGS (Thailand) Limited (ว-197)
Sampling Condition : Green, Turbid, Odorless with sediment.

Sampling Date : November 5, 2025
Sampling Time : 14.20 hr.
Received Date : November 10, 2025
Analysis Date : November 10-December 12, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	SM 4500-H^+ B	9.0	**5.5-9.0**	**5.5-9.0**
Temperature	C°	SM 2550 B	29.0	**≤40**	-
Biochemical Oxygen Demand (BOD)	mg/L	SM 4500-O^- G and 5210 B	14	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	SM 5220 C	58	**≤120**	**≤120**
Total Dissolved Solids (TDS)	mg/L	SM 2540 C	960	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	SM 2540 D	12	**≤50**	**≤50**
Oil and Grease	mg/L	SM 5520 B	<2	**≤5**	**≤5**
Total Kjeldahl Nitrogen (TKN)	mg/L	SM 4500-N_{org} B and 4500-NH_3 C	<1.00	**≤100**	**≤100**
Sulfide as H_2S	mg/L	SM 4500-S^{2-} D	<0.02	**≤1**	-
Lead (Pb)	mg/L	SM 3030 K and 3120 B	<0.01	**≤0.02**	-
Cadmium (Cd)	mg/L	SM 3030 K and 3120 B	<0.002	**≤0.03**	-
Arsenic (As)	mg/L	SM 3030 K and 3114 C	0.016	**≤0.25**	-
Mercury (Hg)	mg/L	SM 3030 K and 3112 B	<0.0005	**≤0.005**	-

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head
License ID: ว-197-ค-0004

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager
License ID: ว-197-ค-0005

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Report No. : 2025-500005623-2 / 001-2 (Page 2 of 2) **Issued date:** December 3, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P9) (High BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Green, Turbid, Odorless with sediment.

Sampling Date : November 5, 2025
Sampling Time : 14.20 hr.
Received Date : November 10, 2025
Analysis Date : November 10-December 2, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Electrical Conductivity (EC)	µS/cm	SM 2510 B	1,521	-	-
Sodium Adsorption Ratio (SAR)	-	Calculation	6.43	-	-

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.
Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
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Technical Specialist Manager

SGS (THAILAND) LIMITED

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Report No. : 2025-500005623-2 / 001-3 (Page 1 of 3) **Issued date:** December 3, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P11) (Low BOD)
Sampling By : Sompong Katkhuntod (ว-197-จ-0008)
Laboratory Name : SGS (Thailand) Limited (ว-197)
Sampling Condition : Brown, Turbid and Odorless with Sediment.

Sampling Date : November 5, 2025
Sampling Time : 13.42 hr.
Received Date : November 10, 2025
Analysis Date : November 10-19, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	SM 4500-H^+ B	7.3	**5.5-9.0**	**5.5-9.0**
Temperature	C°	SM 2550 B	31.0	**≤40**	-
Total Dissolved Solids (TDS)	mg/L	SM 2540 C	367	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	SM 2540 D	41	**<50**	**≤50**

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.
Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
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Technical Specialist Section Head
License ID: ว-197-ค-0004

Approved by [redacted]
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Report No. : 2025-500005623-2 / 001-3 (Page 2 of 3) **Issued date:** December 3, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P11) (Low BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Brown, Turbid and Odorless with Sediment.

Sampling Date : November 5, 2025
Sampling Time : 13.42 hr.
Received Date : November 10, 2025
Analysis Date : November 10-19, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Sodium Adsorption Ratio (SAR)	-	Calculation	4.12	-	-
Dissolved Oxygen (DO)	mg/L	SM 4500-O C	5.9	-	-

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
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Technical Specialist Manager

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Report No. : 2025-500005623-2 / 001-3 (Page 3 of 3) **Issued date:** December 12, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P11) (Low BOD)
Sampling By : Sompong Katkhuntod (ว-197-จ-0008)
Laboratory Name : SGS (Thailand) Limited (ว-197)
Sampling Condition : Brown, Turbid and Odorless with Sediment.

Sampling Date : November 5, 2025
Sampling Time : 13.42 hr.
Received Date : November 10, 2025
Analysis Date : November 10-19, 2025

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Biochemical Oxygen Demand (BOD)	mg/L	SM 4500-O G and 5210 B	32	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	SM 5220 C	371	**<120**	**≤120**

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

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Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head
License ID: ว-197-ค-0004

Approved by [redacted]
(Thepsak Yommana)
Technical Specialist Manager
License ID: ว-197-ค-0005

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Report No. : 2025-500005623-3 / 001-1 (Page 1 of 1) **Issued date:** January 7, 2026

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อปรับค่า pH (P1) (High BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Yellow and Very Turbid.

Sampling Date : December 17, 2025
Sampling Time : 09.00 hr.
Received Date : December 22, 2025
Analysis Date : December 22, 2025-January 6, 2026

Parameter	Unit	Method	Result
pH	-	SM 4500-H^+ B	8.8
Temperature	C°	SM 2550 B	25.2
Biochemical Oxygen Demand (BOD)	mg/L	SM 4500-O G and 5210 B	8
Chemical Oxygen Demand (COD)	mg/L	SM 5220 C	<40
Total Dissolved Solids (TDS)	mg/L	SM 2540 C	6,617
Total Suspended Solids (TSS)	mg/L	SM 2540 D	8
Oil and Grease	mg/L	SM 5520 B	4
Total Kjeldahl Nitrogen (TKN)	mg/L	SM 4500-N_{org} B and 4500-NH_3 C	<1.00
Sulfide	mg/L	SM 4500-S^{2-} D	<0.02
Lead (Pb)	mg/L	SM 3030 K and 3120 B	<0.01
Cadmium (Cd)	mg/L	SM 3030 K and 3120 B	0.004
Arsenic (As)	mg/L	SM 3030 K and 3114 C	0.197
Mercury (Hg)	mg/L	SM 3030 K and 3112 B	<0.0005
Electrical Conductivity (EC)	µS/cm	SM 2510 B	9,620
Sodium Adsorption Ratio (SAR)	-	Calculation	5.18

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

SGS (THAILAND) LIMITED

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LABORATORY ADDRESS: 1/209, and 1/211 Moo1, Soi Sukhumvit 2, Banchang, Banchang, Rayong, 21130

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Docusign Envelope ID: E8993E59-715C-41FA-AED4-03663EF0CEB4

Report No. : 2025-500005623-3 / 001-2 (Page 1 of 2) **Issued date:** January 7, 2026

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P9) (High BOD)
Sampling By : Sompong Katkhuntod (ว-197-จ-0008)
Laboratory Name : SGS (Thailand) Limited (ว-197)
Sampling Condition : Yellow and very turbid.

Sampling Date : December 17, 2025
Sampling Time : 09.15 hr.
Received Date : December 22, 2025
Analysis Date : December 22, 2025-January 6, 2026

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	SM 4500-H^+ B	8.8	**5.5-9.0**	**5.5-9.0**
Temperature	C°	SM 2550 B	23.6	**≤40**	-
Biochemical Oxygen Demand (BOD)	mg/L	SM 4500-O^- G and 5210 B	10	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	SM 5220 C	<40	**≤120**	**≤120**
Total Dissolved Solids (TDS)	mg/L	SM 2540 C	1,213	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	SM 2540 D	10	**≤50**	**≤50**
Oil and Grease	mg/L	SM 5520 B	<2	**≤5**	**≤5**
Total Kjeldahl Nitrogen (TKN)	mg/L	SM 4500-N_{org} B and 4500-NH_3 C	<1.00	**≤100**	**≤100**
Sulfide as H_2S	mg/L	SM 4500-S^{2-} D	<0.02	**≤1**	-
Lead (Pb)	mg/L	SM 3030 K and 3120 B	<0.01	**≤0.02**	-
Cadmium (Cd)	mg/L	SM 3030 K and 3120 B	<0.002	**≤0.03**	-
Arsenic (As)	mg/L	SM 3030 K and 3114 C	0.028	**≤0.25**	-
Mercury (Hg)	mg/L	SM 3030 K and 3112 B	<0.0005	**≤0.005**	-

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head
License ID: ว-197-ค-0004

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager
License ID: ว-197-ค-0005

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Report No. : 2025-500005623-3 / 001-2 (Page 2 of 2) **Issued date:** January 7, 2026

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P9) (High BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Yellow and very turbid.

Sampling Date : December 17, 2025
Sampling Time : 09.15 hr.
Received Date : December 22, 2025
Analysis Date : December 22, 2025-January 6, 2026

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Electrical Conductivity (EC)	µS/cm	SM 2510 B	1,959	-	-
Sodium Adsorption Ratio (SAR)	-	Calculation	6.14	-	-

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

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Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500005623-3 / 001-3 (Page 1 of 3) **Issued date:** January 7, 2026

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P11) (Low BOD)
Sampling By : Sompong Katkhuntod (ว-197-จ-0008)
Laboratory Name : SGS (Thailand) Limited (ว-197)
Sampling Condition : Brown and Turbid.

Sampling Date : December 17, 2025
Sampling Time : 08.48 hr.
Received Date : December 22, 2025
Analysis Date : December 22, 2025-January 6, 2026

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	SM 4500-H^+ B	7.9	**5.5-9.0**	**5.5-9.0**
Temperature	C°	SM 2550 B	24.7	**≤40**	-
Total Dissolved Solids (TDS)	mg/L	SM 2540 C	519	**≤3,000**	**≤3,000**
Total Suspended Solids (TSS)	mg/L	SM 2540 D	9	**<50**	**≤50**

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.
Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).
2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head
License ID: ว-197-ค-0004

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager
License ID: ว-197-ค-0005

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Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P11) (Low BOD)
Sampling By : Sompong Katkhuntod
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Brown and Turbid.

Sampling Date : December 17, 2025
Sampling Time : 08.48 hr.
Received Date : December 22, 2025
Analysis Date : December 22, 2025-January 6, 2026

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Sodium Adsorption Ratio (SAR)	-	Calculation	4.82	-	-
Dissolved Oxygen (DO)	mg/L	SM 4500-O C	1.8	-	-

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

2/ Notification of the Ministry of Natural Resources and Environment B.E 2565 (2022), published in the Royal Government Gazette Vol.139, Part special 238D, date October 6, B.E 2565 (2022).

Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

SGS (THAILAND) LIMITED

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LABORATORY ADDRESS: 1/209, and 1/211 Moo1, Soi Sukhumvit 2, Banchang, Banchang, Rayong, 21130

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Report No. : 2025-500005623-3 / 001-3 (Page 3 of 3) **Issued date:** January 7, 2026

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100#1512

Analysis Report

Sample Type : Wastewater Quality
Sampling Location : บ่อพักน้ำทิ้ง (P11) (Low BOD)
Sampling By : Sompong Katkhuntod (ว-197-จ-0008)
Laboratory Name : SGS (Thailand) Limited (ว-197)
Sampling Condition : Brown and Turbid.

Sampling Date : December 17, 2025
Sampling Time : 08.48 hr.
Received Date : December 22, 2025
Analysis Date : December 22, 2025-January 6, 2026

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Biochemical Oxygen Demand (BOD)	mg/L	SM 4500-O G and 5210 B	5	**≤20**	**≤20**
Chemical Oxygen Demand (COD)	mg/L	SM 5220 C	<40	**<120**	**≤120**

Remark: - SM = Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of Ministry of Industry B.E 2560 (2017), published in the Royal Government Gazette Vol.134, Part special 153D, date June 7, B.E 2560 (2017).

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Reviewed by [redacted]
(Phatsakorn Soonthornwiphat)
Technical Specialist Section Head
License ID: ว-197-ค-0004

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager
License ID: ว-197-ค-0005

SGS (THAILAND) LIMITED

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คุณภาพน้ำใต้ดิน (บ่อสังเกตการณ์)

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Report No. : 2025-500004971-1 / 004-1 (Page 1 of 2) Issued date : August 4, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
Tel: 055-609-100#1512, Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality
SAMPLING METHOD : Grab Sampling
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 13.22 hr.
SAMPLING LOCATION : HB-MW1 (ทิศทางเหนือของการไหลของน้ำใต้ดิน) (UTM47Q 0591245E, 1942617N)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	6.8	-	6.5-9.2
Chloride (Cl^-)	mg/l	APHA, 4500 Cl^- D	102	-	-
Total Hardness	(mg/l as $CaCO_3$)	APHA, 2340 C	544	-	-
Total Dissolved Solids (TDS)	mg/l	APHA, 2540 C	881	-	-
Total Suspended Solids (SS)	mg/l	APHA, 2540 D	25	-	-
Nitrate-Nitrogen (NO_3^--N)	mg/l	APHA, 4110 B	0.008	-	-
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	>23	-	-
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 C	1.1	-	-
Calcium (Ca)	mg/l	APHA, 3120 B	130.78	-	-
Magnesium (Mg)	mg/l	APHA, 3120 B	49.82	-	-
Electrical Conductivity (EC)	µs/cm	APHA 2510 B	1,445	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special part 95D, dated September 15, B.E. 2543 (2000).
2/ Notification of the Ministry of Industry, B.E. 2559 (2016), published in the Royal Government Gazette, Vol. 133, Special part 275D, date November 29, B.E. 2559 (2016).

[redacted]
(Thepsan Yommana)
Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2025-500004971-1 / 004-1 (Page 2 of 2) Issued date : August 4, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
Tel: 055-609-100#1512, Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : HB-MW1 (ทิศทางเหนือของการไหลของน้ำใต้ดิน) (UTM47Q 0591245E, 1942617N)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 13.22 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Iron (Fe)	mg/l	APHA, 3125 B	1.401	-	-
Manganese (Mn)	mg/l	APHA, 3125 B	1.108	**≤0.5**	**≤33**
Aluminum (Al)	mg/l	APHA, 3125 B	0.350	-	-
Lead (Pb)	mg/l	APHA, 3125 B	0.0644	**≤0.01**	**≤4.0**
Mercury (Hg)	mg/l	APHA, 3112 B	<0.0005	**≤0.001**	**≤0.7**
Nickel (Ni)	mg/l	APHA, 3125 B	0.0060	**≤0.02**	**≤5.0**
Copper (Cu)	mg/l	APHA, 3125 B	0.0048	**≤1.0**	-
Arsenic (As)	mg/l	APHA, 3125 B	0.002	**≤0.01**	**≤0.1**
Depth	m	Piezometer	9.2	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special part 95D, dated September 15, B.E. 2543 (2000).
2/ Notification of the Ministry of Industry, B.E. 2559 (2016), published in the Royal Government Gazette, Vol. 133, Special part 275D, date November 29, B.E. 2559 (2016).

[redacted]
(Thepsan Yommana)
Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2025-500004791-1 / 004-2 (Page 1 of 2) Issued date : August 4, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
Tel: 055-609-100#1512, 081-887-9523 Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality **SAMPLING DATE** : July 4, 2025
SAMPLING METHOD : Grab Sampling **SAMPLING TIME** : 13.45 hr.
SAMPLING LOCATION : HB-MW2 (ทิศทางท้ายน้ำของการไหลของน้ำใต้ดิน จุดที่ 1) (UTM47Q 0591243E, 1942577N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	6.9	-	6.5-9.2
Chloride (Cl^-)	mg/l	APHA, 4500 Cl^- D	149	-	-
Total Hardness	(mg/l as $CaCO_3$)	APHA, 2340 C	336	-	-
Total Dissolved Solids (TDS)	mg/l	APHA, 2540 C	625	-	-
Total Suspended Solids (SS)	mg/l	APHA, 2540 D	22	-	-
Nitrate-Nitrogen (NO^-_3-N)	mg/l	APHA, 4110 B	0.010	-	-
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	>23	-	-
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 C	>23	-	-
Calcium (Ca)	mg/l	APHA, 3120 B	34.96	-	-
Magnesium (Mg)	mg/l	APHA, 3120 B	10.59	-	-
Electrical Conductivity (EC)	µs/cm	APHA, 2510 B	1,081	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special part 95D, dated September 15, B.E. 2543 (2000).
2/ Notification of the Ministry of Industry, B.E. 2559 (2016), published in the Royal Government Gazette, Vol. 133, Special part 275D, date November 29, B.E. 2559 (2016).

[redacted]
(Thepsan Yommana)
Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2025-500004791-1 / 004-2 (Page 2 of 2) Issued date : August 4, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
Tel: 055-609-100#1512, 081-887-9523 Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality **SAMPLING DATE** : July 4, 2025
SAMPLING METHOD : Grab Sampling **SAMPLING TIME** : 13.45 hr.
SAMPLING LOCATION : HB-MW2 (ทิศทางท้ายน้ำของการไหลของน้ำใต้ดิน จุดที่ 1) (UTM47Q 0591243E, 1942577N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Iron (Fe)	mg/l	APHA, 3125 B	2.048	-	-
Manganese (Mn)	mg/l	APHA, 3125 B	0.648	**≤0.5**	**≤33**
Aluminum (Al)	mg/l	APHA, 3125 B	0.202	-	-
Lead (Pb)	mg/l	APHA, 3125 B	0.0348	**≤0.01**	**≤4.0**
Mercury (Hg)	mg/l	APHA, 3112 B	<0.0005	**≤0.001**	**≤0.7**
Nickel (Ni)	mg/l	APHA, 3125 B	0.0018	**≤0.02**	**≤5.0**
Copper (Cu)	mg/l	APHA, 3125 B	0.0027	**≤1.0**	-
Arsenic (As)	mg/l	APHA, 3125 B	0.003	**≤0.01**	**≤0.1**
Depth	m	Piezometer	9.3	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special part 95D, dated September 15, B.E. 2543 (2000).
2/ Notification of the Ministry of Industry, B.E. 2559 (2016), published in the Royal Government Gazette, Vol. 133, Special part 275D, date November 29, B.E. 2559 (2016).

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(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 004-3 (Page 1 of 2) Issued date : August 4, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
ADDRESS : 100 Moo 9 Ban Tuek, Si Satchanalai District, Sukhothai 64130
Tel: 055-609-100#1512, Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality **SAMPLING DATE** : July 4, 2025
SAMPLING METHOD : Grab Sampling **SAMPLING TIME** : 14.01 hr.
SAMPLING LOCATION : HB-MW3 (ทิศทางท้ายน้ำของการไหลของน้ำใต้ดิน จุดที่ 2) (UTM47Q 0591226E, 1942595N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	7.3	-	6.5-9.2
Chloride (Cl^-)	mg/l	APHA, 4500 Cl^- D	294	-	-
Total Hardness	(mg/l as $CaCO_3$)	APHA, 2340 C	236	-	-
Total Dissolved Solids (TDS)	mg/l	APHA 2540 C	811	-	-
Total Suspended Solids (SS)	mg/l	APHA, 2540 D	14	-	-
Nitrate-Nitrogen (NO_3^--N)	mg/l	APHA, 4110 B	<0.005	-	-
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	6.9	-	-
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 C	<1.1	-	-
Calcium (Ca)	mg/l	APHA, 3120 B	38.28	-	-
Magnesium (Mg)	mg/l	APHA, 3120 B	27.28	-	-
Electrical Conductivity (EC)	µs/cm	APHA, 2510 B	1,455	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special part 95D, dated September 15, B.E. 2543 (2000).
2/ Notification of the Ministry of Industry, B.E. 2559 (2016), published in the Royal Government Gazette, Vol. 133, Special part 275D, date November 29, B.E. 2559 (2016).

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(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 004-3 (Page 2 of 2) Issued date : August 4, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
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Tel: 055-609-100#1512, Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : HB-MW3 (ทิศทางท้ายน้ำของการไหลของน้ำใต้ดิน จุดที่ 2) (UTM47Q 0591226E, 1942595N)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 14.01 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Iron (Fe)	mg/l	APHA, 3125 B	0.299	-	-
Manganese (Mn)	mg/l	APHA, 3125 B	1.844	**≤0.5**	**≤33**
Aluminum (Al)	mg/l	APHA, 3125 B	0.077	-	-
Lead (Pb)	mg/l	APHA, 3125 B	0.0036	**≤0.01**	**≤4.0**
Mercury (Hg)	mg/l	APHA, 3112 B	<0.0005	**≤0.001**	**≤0.7**
Nickel (Ni)	mg/l	APHA, 3125 B	0.0254	**≤0.02**	**≤5.0**
Copper (Cu)	mg/l	APHA, 3125 B	0.0055	**≤1.0**	-
Arsenic (As)	mg/l	APHA, 3125 B	<0.001	**≤0.01**	**≤0.1**
Depth	m	Piezometer	9.8	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special part 95D, dated September 15, B.E. 2543 (2000).
2/ Notification of the Ministry of Industry, B.E. 2559 (2016), published in the Royal Government Gazette, Vol. 133, Special part 275D, date November 29, B.E. 2559 (2016).

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(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 004-4 (Page 1 of 2) Issued date : August 4, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
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Tel: 055-609-100#1512, Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality **SAMPLING DATE** : July 4, 2025
SAMPLING METHOD : Grab Sampling **SAMPLING TIME** : 11.14 hr.
SAMPLING LOCATION : HB-MW4 (ทิศทางเหนือของการไหลของน้ำใต้ดิน) (UTM47Q 0591215E, 1942567N)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY** : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	6.5	-	6.5-9.2
Chloride (Cl^-)	mg/l	APHA, 4500 Cl^- D	245	-	-
Total Hardness	(mg/l as $CaCO_3$)	APHA, 2340 C	152	-	-
Total Dissolved Solids (TDS)	mg/l	APHA, 2540 C	637	-	-
Total Suspended Solids (SS)	mg/l	APHA, 2540 D	14	-	-
Nitrate-Nitrogen (NO_3^--N)	mg/l	APHA, 4110 B	<0.005	-	-
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	>23	-	-
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 C	<1.1	-	-
Calcium (Ca)	mg/l	APHA, 3120 B	20.10	-	-
Magnesium (Mg)	mg/l	APHA, 3120 B	18.36	-	-
Electrical Conductivity (EC)	µs/cm	APHA 2510 B	1,257	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special part 95D, dated September 15, B.E. 2543 (2000).
2/ Notification of the Ministry of Industry, B.E. 2559 (2016), published in the Royal Government Gazette, Vol. 133, Special part 275D, date November 29, B.E. 2559 (2016).

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(Thepsan Yommana)
Technical Manager

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CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
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Tel: 055-609-100#1512, Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : HB-MW4 (ทิศทางเหนือของการไหลของน้ำใต้ดิน) (UTM47Q 0591215E, 1942567N)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 11.14 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Iron (Fe)	mg/l	APHA, 3125 B	1.625	-	-
Manganese (Mn)	mg/l	APHA, 3125 B	2.816	**≤0.5**	**≤33**
Aluminum (Al)	mg/l	APHA, 3125 B	0.104	-	-
Lead (Pb)	mg/l	APHA, 3125 B	0.0150	**≤0.01**	**≤4.0**
Mercury (Hg)	mg/l	APHA, 3112 B	<0.0005	**≤0.001**	**≤0.7**
Nickel (Ni)	mg/l	APHA, 3125 B	0.0360	**≤0.02**	**≤5.0**
Copper (Cu)	mg/l	APHA, 3125 B	0.0026	**≤1.0**	-
Arsenic (As)	mg/l	APHA, 3125 B	<0.001	**≤0.01**	**≤0.1**
Depth	m	Piezometer	8.1	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special part 95D, dated September 15, B.E. 2543 (2000).
2/ Notification of the Ministry of Industry, B.E. 2559 (2016), published in the Royal Government Gazette, Vol. 133, Special part 275D, date November 29, B.E. 2559 (2016).

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(Thepsan Yommana)
Technical Manager

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Report No. : 2025-500004791-1 / 004-5 (Page 1 of 2) Issued date : August 4, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
CONTACT : Khun Wanutsuda Chompusri
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Tel: 055-609-100#1512, 081-887-9523 Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : HB-MW5 (ทิศทางท้ายน้ำของการไหลของน้ำใต้ดิน จุดที่ 1) (UTM47Q 0591221E, 1942510N)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 11.47 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	7.7	-	6.5-9.2
Chloride (Cl^-)	mg/l	APHA, 4500 Cl^- D	318	-	-
Total Hardness	(mg/l as $CaCO_3$)	APHA, 2340 C	512	-	-
Total Dissolved Solids (TDS)	mg/l	APHA, 2540 C	993	-	-
Total Suspended Solids (SS)	mg/l	APHA, 2540 D	63	-	-
Nitrate-Nitrogen (NO_3-N)	mg/l	APHA, 4110 B	<0.005	-	-
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	1.1	-	-
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 C	<1.1	-	-
Calcium (Ca)	mg/l	APHA, 3120 B	112.64	-	-
Magnesium (Mg)	mg/l	APHA, 3120 B	41.30	-	-
Electrical Conductivity (EC)	µs/cm	APHA, 2510 B	1,803	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special part 95D, dated September 15, B.E. 2543 (2000).
2/ Notification of the Ministry of Industry, B.E. 2559 (2016), published in the Royal Government Gazette, Vol. 133, Special part 275D, date November 29, B.E. 2559 (2016).

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(Thepsan Yommana)
Technical Manager

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Tel: 055-609-100#1512, 081-887-9523 Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : HB-MW5 (ทิศทางท้ายน้ำของการไหลของน้ำใต้ดิน จุดที่ 1) (UTM47Q 0591221E, 1942510N)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 11.47 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Iron (Fe)	mg/l	APHA, 3125 B	0.324	-	-
Manganese (Mn)	mg/l	APHA, 3125 B	1.495	**≤0.5**	**≤33**
Aluminum (Al)	mg/l	APHA, 3125 B	0.113	-	-
Lead (Pb)	mg/l	APHA, 3125 B	0.0014	**≤0.01**	**≤4.0**
Mercury (Hg)	mg/l	APHA, 3112 B	<0.0005	**≤0.001**	**≤0.7**
Nickel (Ni)	mg/l	APHA, 3125 B	0.0031	**≤0.02**	**≤5.0**
Copper (Cu)	mg/l	APHA, 3125 B	0.0034	**≤1.0**	-
Arsenic (As)	mg/l	APHA, 3125 B	0.002	**≤0.01**	**≤0.1**
Depth	m	Piezometer	6.2	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special part 95D, dated September 15, B.E. 2543 (2000).
2/ Notification of the Ministry of Industry, B.E. 2559 (2016), published in the Royal Government Gazette, Vol. 133, Special part 275D, date November 29, B.E. 2559 (2016).

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Technical Manager

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Report No. : 2025-500004791-1 / 004-6 (Page 1 of 2) Issued date : August 4, 2025

CLIENT : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
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Tel: 055-609-100#1512, 081-887-9523 Fax. 055-609-125
E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : HB-MW6 (ทิศทางท้ายน้ำของการไหลของน้ำใต้ดิน จุดที่ 2) (UTM47Q 0591244E, 1942509N)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 11.31 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
pH	-	APHA, 4500-H^+ B	7.6	-	6.5-9.2
Chloride (Cl^-)	mg/l	APHA, 4500 Cl^- D	325	-	-
Total Hardness	(mg/l as $CaCO_3$)	APHA, 2340 C	488	-	-
Total Dissolved Solids (TDS)	mg/l	APHA 2540 C	988	-	-
Total Suspended Solids (SS)	mg/l	APHA, 2540 D	79	-	-
Nitrate-Nitrogen (NO^-_3-N)	mg/l	APHA, 4110 B	0.039	-	-
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	>23	-	-
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 C	>23	-	-
Calcium (Ca)	mg/l	APHA, 3120 B	96.40	-	-
Magnesium (Mg)	mg/l	APHA, 3120 B	26.24	-	-
Electrical Conductivity (EC)	µs/cm	APHA, 2510 B	1,816	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special part 95D, dated September 15, B.E. 2543 (2000).
2/ Notification of the Ministry of Industry, B.E. 2559 (2016), published in the Royal Government Gazette, Vol. 133, Special part 275D, date November 29, B.E. 2559 (2016).

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E-mail: wanutsuda.c@cristalla.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : HB-MW6 (ทิศทางท้ายน้ำของการไหลของน้ำใต้ดิน จุดที่ 2) (UTM47Q 0591244E, 1942509N)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : July 4, 2025
SAMPLING TIME : 11.31 hr.
SAMPLING BY : Sompong Katkhuntod

Parameter	Unit	Method	Result	Standard[1/]	Standard[2/]
Iron (Fe)	mg/l	APHA, 3125 B	1.880	-	-
Manganese (Mn)	mg/l	APHA, 3125 B	1.158	**≤0.5**	**≤33**
Aluminum (Al)	mg/l	APHA, 3125 B	0.174	-	-
Lead (Pb)	mg/l	APHA, 3125 B	0.0010	**≤0.01**	**≤4.0**
Mercury (Hg)	mg/l	APHA, 3112 B	<0.0005	**≤0.001**	**≤0.7**
Nickel (Ni)	mg/l	APHA, 3125 B	0.0017	**≤0.02**	**≤5.0**
Copper (Cu)	mg/l	APHA, 3125 B	0.0016	**≤1.0**	-
Arsenic (As)	mg/l	APHA, 3125 B	0.006	**≤0.01**	**≤0.1**
Depth	m	Piezometer	7.3	-	-

Remark: - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.

Sources: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special part 95D, dated September 15, B.E. 2543 (2000).
2/ Notification of the Ministry of Industry, B.E. 2559 (2016), published in the Royal Government Gazette, Vol. 133, Special part 275D, date November 29, B.E. 2559 (2016).

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(Thepsan Yommana)
Technical Manager

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คุณภาพดินและน้ำใต้ดินในพื้นที่เกษตรกรคู่สัญญา

Docusign Envelope ID: A5F52343-A0F5-4799-ABA9-0D3463DAB726

Report No. : 2025-500004791-4 / 002-1 (Page 1 of 1) **Issued date:** October 27, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100 #1512

Analysis Report

Sample Type : Groundwater
Sampling Location : โครงการสูบน้ำพลังงานแสงอาทิตย์ บ้านทุ่งพล้อ ตำบลป่างิ้ว
Sampling By : Kittikhun Thaseephet
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Clear, Odorless and No sediment

Sampling Date : September 23, 2025
Sampling Time : 15.00 hr.
Received Date : September 29, 2025
Analysis Date : September 29-9 October, 2025

Parameter	Unit	Method	Result	Standard[1/]
pH	-	SM 4500-H^+ B	7.8	-
Nitrate (as N)	mg/l	SM 4110 B	0.037	-
Ammonia - Nitrogen (NH_3-N)	mg/l	SM 4500-NH^3 B&C	<0.50	-
Arsenic (As)	mg/l	SM 3125 B	0.0020	**≤0.01**
Cadmium (Cd)	mg/l	SM 3125 B	<0.0001	**≤0.003**
Chromium (Cr)	mg/l	SM 3125 B	<0.0005	-
Copper (Cu)	mg/l	SM 3125 B	0.0030	**≤1.0**
Lead (Pb)	mg/l	SM 3125 B	0.003	**≤0.01**
Mercury (Hg)	mg/l	SM 3112 B	<0.0005	**≤0.001**
Manganese (Mn)	mg/l	SM 3125 B	0.0265	**≤0.5**
Electrical Conductivity (EC)	µs/cm	SM 2510 B	777	-
Total Kjeldahl Nitrogen (TKN)	mg/l	SM 4500-Norg B and 4500-NH^3 C	<1.00	-

Remarks: - SM = Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.
Source: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special Part 95D, dated September 15, B.E. 2543 (2000).

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500004791-4 / 002-2 (Page 1 of 1) **Issued date:** October 27, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100 #1512

Analysis Report

Sample Type : Groundwater
Sampling Location : ประปาหมู่ที่ 6 บ้านทุ่งพลับ ตำบลป่างิ้ว บ้านเลขที่ 231
Sampling By : Kittikhun Thaseephet
Laboratory Name : SGS (Thailand) Limited
Sampling Condition : Clear, Odorless and no Sediment

Sampling Date : September 23, 2025
Sampling Time : 15.31 hr.
Received Date : September 29, 2025
Analysis Date : September 29-9 October, 2025

Parameter	Unit	Method	Result	Standard[1/]
pH	-	SM 4500-H^+ B	8.0	-
Nitrate (as N)	mg/l	SM 4110 B	0.036	-
Ammonia - Nitrogen (NH_3-N)	mg/l	SM 4500-NH^3 B&C	<0.50	-
Arsenic (As)	mg/l	SM 3125 B	0.0012	**≤0.01**
Cadmium (Cd)	mg/l	SM 3125 B	<0.0001	**≤0.003**
Chromium (Cr)	mg/l	SM 3125 B	<0.0005	-
Copper (Cu)	mg/l	SM 3125 B	<0.0004	**≤1.0**
Lead (Pb)	mg/l	SM 3125 B	<0.0002	**≤0.01**
Mercury (Hg)	mg/l	SM 3112 B	<0.0005	**≤0.001**
Manganese (Mn)	mg/l	SM 3125 B	0.0247	**≤0.5**
Electrical Conductivity (EC)	µs/cm	SM 2510 B	792	-
Total Kjeldahl Nitrogen (TKN)	mg/l	SM 4500-Norg B and 4500-NH^3 C	<1.00	-

Remark: - SM = Standard Methods for the Examination of Water and Wastewater, recommended by APHA, AWWA&WEF 24th ed., 2023.
Source: 1/ Notification of the National Environmental Board No. 20, B.E. 2543 (2000), published in the Royal Government Gazette, Vol. 117, Special Part 95D, dated September 15, B.E. 2543 (2000).

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500004791-4 / 003-1 (Page 1 of 2) **Issued date:** November 04, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100 #1512

Analysis Report

Sample Type : Soil
Sampling Location : พื้นที่เกษตรกรคู่สัญญา_นายสุชาติ ใจชนะ หมายเลขแปลง 04341-21
Sampling By : Kittikhun Thaseepech
Laboratory Name : SGS (Thailand) Limited

Sampling Date : September 23, 2025
Sampling Time : 13:40 hr.
Received Date : September 29, 2025
Analysis Date : September 29-October 30, 2025

Parameter	Unit	Method	Result	Standard
pH	-	U.S.EPA 9045 D	8.6	-
Electrical Conductivity	µS/m	In-House method: ENSE-24001	0.06	-
Sodium Absorption Ratio	-	Calculate from Na, Ca and Mg	0.95	-
Nitrogen*	%	Dry combustion	0.11	-
Phosphorus*	%	Vanadomolybdate - UV-VIS Spectrophotometer	0.01	-
Potassium*	%	AAS-Flame	0.13	-
Soil Bulk Density*	g/cm^3	Clod method	1.73	-
Soil Porosity**	% By Volume	Core method and 3-Phase meter	37.19	-
Cation Exchange Capacity*	cmol/kg	Ditillation	12.70	-

Remarks : - U.S.EPA : United States Environmental Protection Agency.
* Analysis by Department of Silviculture, Faculty of Forestry, Kasetsart University.
** Analysis by Soil Science, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University.

Source : - Notification of the National Environmental Board, Subject Soil Quality Standard, published in the Royal Government Gazette, Vol. 138 special part 54D, dated March 11, B.E. 2564 (2021).
Standard of Soil Class 1 : for residential to protect the populace and a cluster of risky population i.g. children under 6 years old
Standard of Soil Class 2 : for merchandising, agriculture and other activities to protect working-age population and agriculturists

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

SGS (THAILAND) LIMITED

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LABORATORY ADDRESS: 1/209, and 1/211 Moo1, Soi Sukhumvit 2, Banchang, Banchang, Rayong, 21130

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Report No. : 2025-500004791-4 / 003-1 (Page 2 of 2) **Issued date:** November 04, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100 #1512

Analysis Report

Sample Type : Soil
Sampling Location : พื้นที่เกษตรกรคู่สัญญา_นายสุชาติ ใจชนะ หมายเลขแปลง 04341-21
Sampling By : Kittikhun Thaseepech
Laboratory Name : SGS (Thailand) Limited

Sampling Date : September 23, 2025
Sampling Time : 13:40 hr.
Received Date : September 29, 2025
Analysis Date : September 29-October 30, 2025

Parameter	Unit	Method	Result	Standard
Arsenic (As)	mg/kg (dry basis)	Based on U.S.EPA 3051A, 6020B	10.5	≤25
Cadmium (Cd)		Based on U.S.EPA 3051A, 6010D	<2.5	≤762
Chromium (Cr)			60.5	-
Copper (Cu)			39.2	≤35,040
Lead (Pb)			69.2	≤800
Manganese (Mn)		Based on U.S.EPA 3051A, 6010D	4,013.5	≤19,640
Mercury (Hg)		Based on U.S.EPA 3051A, 7471B	<0.125	≤263

Remarks : - U.S.EPA : United States Environmental Protection Agency.
* Analysis by Department of Silviculture, Faculty of Forestry, Kasetsart University.
** Analysis by Soil Science, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University.
Source : - Notification of the National Environmental Board, Subject Soil Quality Standard, published in the Royal Government Gazette, Vol. 138 special part 54D, dated March 11, B.E. 2564 (2021).
Standard of Soil Class 1 : for residential to protect the populace and a cluster of risky population i.g. children under 6 years old
Standard of Soil Class 2 : for merchandising, agriculture and other activities to protect working-age population and agriculturists

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500004791-4 / 003-2 (Page 1 of 2) **Issued date:** November 04, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100 #1512

Analysis Report

Sample Type : Soil
Sampling Location : พื้นที่เกษตรกรคู่สัญญา_นางสาวสุรีรัตน์ ระบอบหมายเลขแปลง 14273-02
Sampling By : Kittikhun Thaseepech
Laboratory Name : SGS (Thailand) Limited

Sampling Date : September 23, 2025
Sampling Time : 14:20 hr.
Received Date : September 29, 2025
Analysis Date : September 29-October 30, 2025

Parameter	Unit	Method	Result	Standard
pH	-	U.S.EPA 9045 D	7.2	-
Electrical Conductivity	µS/m	In-House method: ENSE-24001	0.02	-
Sodium Absorption Ratio	-	Calculate from Na, Ca and Mg	0	-
Nitrogen*	%	Dry combustion	0.16	-
Phosphorus*	%	Vanadomolybdate - UV-VIS Spectrophotometer	0.01	-
Potassium*	%	AAS-Flame	0.07	-
Soil Bulk Density*	g/cm^3	Clod method	1.45	-
Soil Porosity**	% By Volume	Core method and 3-Phase meter	38.52	-
Cation Exchange Capacity*	cmol/kg	Ditillation	13.13	-

Remarks : - U.S.EPA : United States Environmental Protection Agency.
* Analysis by Department of Silviculture, Faculty of Forestry, Kasetsart University.
** Analysis by Soil Science, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University.

Source : - Notification of the National Environmental Board, Subject Soil Quality Standard, published in the Royal Government Gazette, Vol. 138 special part 54D, dated March 11, B.E. 2564 (2021).
Standard of Soil Class 1 : for residential to protect the populace and a cluster of risky population i.g. children under 6 years old
Standard of Soil Class 2 : for merchandising, agriculture and other activities to protect working-age population and agriculturists

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500004791-4 / 003-2 (Page 2 of 2) **Issued date:** November 04, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100 #1512

Analysis Report

Sample Type : Soil
Sampling Location : พื้นที่เกษตรกรคู่สัญญา_นางสาวสุรีรัตน์ ระบอบหมายเลขแปลง 14273-02
Sampling By : Kittikhun Thaseepech
Laboratory Name : SGS (Thailand) Limited

Sampling Date : September 23, 2025
Sampling Time : 14:20 hr.
Received Date : September 29, 2025
Analysis Date : September 29-October 30, 2025

Parameter	Unit	Method	Result	Standard
Arsenic (As)	mg/kg (dry basis)	Based on U.S.EPA 3051A, 6020B	16.2	**≤25**
Cadmium (Cd)		Based on U.S.EPA 3051A, 6010D	<2.5	**≤762**
Chromium (Cr)			38.4	**-**
Copper (Cu)			30.8	**≤35,040**
Lead (Pb)			39.2	**≤800**
Manganese (Mn)		Based on U.S.EPA 3051A, 6010D	1,620.5	**≤19,640**
Mercury (Hg)		Based on U.S.EPA 3051A, 7471B	<0.125	**≤263**

Remarks : - U.S.EPA : United States Environmental Protection Agency.
* Analysis by Department of Silviculture, Faculty of Forestry, Kasetsart University.
** Analysis by Soil Science, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University.

Source : - Notification of the National Environmental Board, Subject Soil Quality Standard, published in the Royal Government Gazette, Vol. 138 special part 54D, dated March 11, B.E. 2564 (2021).
Standard of Soil Class 1 : for residential to protect the populace and a cluster of risky population i.g. children under 6 years old
Standard of Soil Class 2 : for merchandising, agriculture and other activities to protect working-age population and agriculturists

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500004791-4 / 003-3 (Page 1 of 2) **Issued date:** November 04, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100 #1512

Analysis Report

Sample Type : Soil
Sampling Location : พื้นที่เกษตรกรคู่สัญญา_นายดอน นามกรณ์ หมายเลขแปลง 00128-05
Sampling By : Kittikhun Thaseepech
Laboratory Name : SGS (Thailand) Limited

Sampling Date : September 23, 2025
Sampling Time : 10:20 hr.
Received Date : September 29, 2025
Analysis Date : September 29-October 30, 2025

Parameter	Unit	Method	Result	Standard
pH	-	U.S.EPA 9045 D	7.4	-
Electrical Conductivity	µS/m	In-House method: ENSE-24001	0.04	-
Sodium Absorption Ratio	-	Calculate from Na, Ca and Mg	0	-
Nitrogen*	%	Dry combustion	0.13	-
Phosphorus*	%	Vanadomolybdate - UV-VIS Spectrophotometer	0.01	-
Potassium*	%	AAS-Flame	0.11	-
Soil Bulk Density*	g/cm^3	Clod method	1.32	-
Soil Porosity**	% By Volume	Core method and 3-Phase meter	43.77	-
Cation Exchange Capacity*	cmol/kg	Ditillation	10.52	-

Remarks : - U.S.EPA : United States Environmental Protection Agency.
* Analysis by Department of Silviculture, Faculty of Forestry, Kasetsart University.
** Analysis by Soil Science, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University.
Source : - Notification of the National Environmental Board, Subject Soil Quality Standard, published in the Royal Government Gazette, Vol. 138 special part 54D, dated March 11, B.E. 2564 (2021).
Standard of Soil Class 1 : for residential to protect the populace and a cluster of risky population i.g. children under 6 years old
Standard of Soil Class 2 : for merchandising, agriculture and other activities to protect working-age population and agriculturists

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500004791-4 / 003-3 (Page 2 of 2) **Issued date:** November 04, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100 #1512

Analysis Report

Sample Type : Soil
Sampling Location : พื้นที่เกษตรกรคู่สัญญา_นายดอน นามกรณ์ หมายเลขแปลง 00128-05
Sampling By : Kittikhun Thaseepech
Laboratory Name : SGS (Thailand) Limited

Sampling Date : September 23, 2025
Sampling Time : 10:20 hr.
Received Date : September 29, 2025
Analysis Date : September 29-October 30, 2025

Parameter	Unit	Method	Result	Standard
Arsenic (As)	mg/kg (dry basis)	Based on U.S.EPA 3051A, 6020B	15.6	≤25
Cadmium (Cd)		Based on U.S.EPA 3051A, 6010D	<2.5	≤762
Chromium (Cr)			26.5	-
Copper (Cu)			25.4	≤35,040
Lead (Pb)			14.0	≤800
Manganese (Mn)		Based on U.S.EPA 3051A, 6010D	672.4	≤19,640
Mercury (Hg)		Based on U.S.EPA 3051A, 7471B	<0.125	≤263

Remarks : - U.S.EPA : United States Environmental Protection Agency.
* Analysis by Department of Silviculture, Faculty of Forestry, Kasetsart University.
** Analysis by Soil Science, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University.

Source : - Notification of the National Environmental Board, Subject Soil Quality Standard, published in the Royal Government Gazette, Vol. 138 special part 54D, dated March 11, B.E. 2564 (2021).
Standard of Soil Class 1 : for residential to protect the populace and a cluster of risky population i.g. children under 6 years old
Standard of Soil Class 2 : for merchandising, agriculture and other activities to protect working-age population and agriculturists

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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Report No. : 2025-500004791-4 / 003-4 (Page 1 of 2) **Issued date:** November 04, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100 #1512

Analysis Report

Sample Type : Soil
Sampling Location : พื้นที่เกษตรกรคู่สัญญา_นางเรไร ละม้าย หมายเลขแปลง 03851-04
Sampling By : Kittikhun Thaseepech
Laboratory Name : SGS (Thailand) Limited

Sampling Date : September 23, 2025
Sampling Time : 11:10 hr.
Received Date : September 29, 2025
Analysis Date : September 29-October 30, 2025

Parameter	Unit	Method	Result	Standard
pH	-	U.S.EPA 9045 D	7.5	-
Electrical Conductivity	µS/m	In-House method: ENSE-24001	0.02	-
Sodium Absorption Ratio	-	Calculate from Na, Ca and Mg	0	-
Nitrogen*	%	Dry combustion	0.14	-
Phosphorus*	%	Vanadomolybdate - UV-VIS Spectrophotometer	0.02	-
Potassium*	%	AAS-Flame	0.11	-
Soil Bulk Density*	g/cm^3	Clod method	1.51	-
Soil Porosity**	% By Volume	Core method and 3-Phase meter	45.28	-
Cation Exchange Capacity*	cmol/kg	Ditillation	13.67	-

Remarks : - U.S.EPA : United States Environmental Protection Agency.
* Analysis by Department of Silviculture, Faculty of Forestry, Kasetsart University.
** Analysis by Soil Science, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University.
Source : - Notification of the National Environmental Board, Subject Soil Quality Standard, published in the Royal Government Gazette, Vol. 138 special part 54D, dated March 11, B.E. 2564 (2021).
Standard of Soil Class 1 : for residential to protect the populace and a cluster of risky population i.g. children under 6 years old
Standard of Soil Class 2 : for merchandising, agriculture and other activities to protect working-age population and agriculturists

Approved by [redacted]
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Technical Specialist Manager

SGS (THAILAND) LIMITED

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Report No. : 2025-500004791-4 / 003-4 (Page 2 of 2) **Issued date:** November 04, 2025

Client : **THIP SUKHOTHAI HYBRID ENERGY CO., LTD.**
Address : 100 Moo 9, Ban Tuek Sub-district, Si Satchanalai District, Sukhothai Province, 64130
Tel: 055-609-100 #1512

Analysis Report

Sample Type : Soil
Sampling Location : พื้นที่เกษตรกรคู่สัญญา_นางเรไร ละม้าย หมายเลขแปลง 03851-04
Sampling By : Kittikhun Thaseepech
Laboratory Name : SGS (Thailand) Limited

Sampling Date : September 23, 2025
Sampling Time : 11:10 hr.
Received Date : September 29, 2025
Analysis Date : September 29-October 30, 2025

Parameter	Unit	Method	Result	Standard
Arsenic (As)	mg/kg (dry basis)	Based on U.S.EPA 3051A, 6020B	9.0	≤25
Cadmium (Cd)		Based on U.S.EPA 3051A, 6010D	<2.5	≤762
Chromium (Cr)			25.8	-
Copper (Cu)			31.1	≤35,040
Lead (Pb)			15.0	≤800
Manganese (Mn)		Based on U.S.EPA 3051A, 6010D	769.2	≤19,640
Mercury (Hg)		Based on U.S.EPA 3051A, 7471B	<0.125	≤263

Remarks : - U.S.EPA : United States Environmental Protection Agency.
* Analysis by Department of Silviculture, Faculty of Forestry, Kasetsart University.
** Analysis by Soil Science, Faculty of Agriculture at Kamphaeng Saen, Kasetsart University.
Source : - Notification of the National Environmental Board, Subject Soil Quality Standard, published in the Royal Government Gazette, Vol. 138 special part 54D, dated March 11, B.E. 2564 (2021).
Standard of Soil Class 1 : for residential to protect the populace and a cluster of risky population i.g. children under 6 years old
Standard of Soil Class 2 : for merchandising, agriculture and other activities to protect working-age population and agriculturists

Approved by [redacted]
(Thepsan Yommana)
Technical Specialist Manager

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