

ภาคผนวก

ภาคผนวก ก หนังสือรับรองผลการตรวจวิเคราะห์

- ภาคผนวก ข - สำเนาหนังสือรับรองห้องปฏิบัติการวิเคราะห์เอกชน
บริษัท เอสจีเอส (ประเทศไทย) จำกัด
- สำเนาใบรับรองมาตรฐาน ISO 9001/2015

ภาคผนวก ค สำเนาใบรับรองการสอบเทียบเครื่องมือ

ภาคผนวก ก

หนังสือรับรองผลการตรวจวิเคราะห์

คุณภาพอากาศในบรรยากาศ

Report No. : 2022-5004051-2 / 001-1 (Page 1 of 5)

Issued date : November 21, 2022

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)
CONTACT : Khun Chayakorn Sukontrakun
ADDRESS : 99 Moo 4, Khlong Krachong, Sawan Khalok, Sukhothai 64110
 Tel. 055-647-225-6, Fax. 055-647-225-6 # 111
 E-mail: chayakorn.suk@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

MEASUREMENT DATE : November 1-3, 2022

MEASUREMENT LOCATION : วัดหนองชุมแสง

MEASURED BY : Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

Time	NO ₂ Concentration (ppm)		
	November 1, 2022	November 2, 2022	November 3, 2022
00:00-01:00	0.002	0.004	0.002
01:00-02:00	0.002	0.004	0.001
02:00-03:00	0.002	0.002	0.001
03:00-04:00	0.002	0.001	0.002
04:00-05:00	0.001	0.002	0.001
05:00-06:00	0.001	0.001	0.001
06:00-07:00	0.001	0.002	0.001
07:00-08:00	0.001	0.003	0.002
08:00-09:00	0.002	0.003	0.003
09:00-10:00	0.002	0.002	0.001
10:00-11:00	0.004	0.003	0.003
11:00-12:00	0.002	0.003	0.003
12:00-13:00	0.002	0.003	0.003
13:00-14:00	0.002	0.002	0.002
14:00-15:00	0.001	0.002	0.003
15:00-16:00	0.001	0.001	0.002
16:00-17:00	0.006	0.001	0.001
17:00-18:00	0.002	0.004	0.002
18:00-19:00	0.004	0.001	0.002
19:00-20:00	0.003	0.004	0.008
20:00-21:00	0.004	0.007	0.007
21:00-22:00	0.004	0.008	0.007
22:00-23:00	0.002	0.005	0.005
23:00-00:00	0.003	0.003	0.004
1 hr-Minimum	0.001	0.001	0.001
1 hr-Maximum	0.006	0.008	0.008
Avg. 24 hr	0.002	0.003	0.003
Standard* (avg. 1 hr)		0.17	

Analytical Method : - Chemiluminescence Method.

Source : * The notification of the National Environment Board No. 33, B.E. 2552 (2009), subjected "The nitrogen dioxide in ambient air standards", published in the Royal Government Gazette, Vol. 126, Special part 114D, dated August 14, B.E. 2552 (2009).

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E 250804

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

MEASUREMENT DATE : November 1-3, 2022

MEASUREMENT LOCATION : วัดหนองชุมแสง

MEASURED BY : Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

Time	CO Concentration (ppm)		
	November 1, 2022	November 2, 2022	November 3, 2022
00:00-01:00	0.758	0.736	0.639
01:00-02:00	0.756	0.734	0.659
02:00-03:00	0.752	0.606	0.615
03:00-04:00	0.722	0.588	0.719
04:00-05:00	0.698	0.594	0.702
05:00-06:00	0.709	0.570	0.632
06:00-07:00	0.691	0.537	0.624
07:00-08:00	0.638	0.518	0.625
08:00-09:00	0.642	0.548	0.649
09:00-10:00	0.670	0.546	0.667
10:00-11:00	0.676	0.533	0.664
11:00-12:00	0.652	0.490	0.597
12:00-13:00	0.660	0.501	0.588
13:00-14:00	0.615	0.540	0.543
14:00-15:00	0.923	0.497	0.579
15:00-16:00	0.716	0.565	0.605
16:00-17:00	0.832	0.606	0.593
17:00-18:00	0.668	0.527	0.616
18:00-19:00	0.651	0.574	0.756
19:00-20:00	0.691	0.589	0.714
20:00-21:00	0.629	0.594	0.715
21:00-22:00	0.686	0.610	0.783
22:00-23:00	0.675	1.025	0.818
23:00-00:00	0.619	0.799	0.836
1 hr-Minimum	0.615	0.490	0.543
1 hr-Maximum	0.923	1.025	0.836
Avg. 8 hrs	00:00-08:00	0.716	0.610
	08:00-16:00	0.694	0.528
	16:00-00:00	0.681	0.666
Standard* (avg. 1 hrs)		30	
Standard* (avg. 8 hr)		9	

Analytical Method : - UV Fluorescence Method.

Sources : * The notification of the National Environment Board No.10, B.E. 2538 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 112, Part 71D, dated September 5, B.E. 2538 (1995)

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E 250805

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

MEASUREMENT DATE : November 1-3, 2022

MEASUREMENT LOCATION : วัดหนองชุมแสง

MEASURED BY : Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

TIME	November 1, 2022		November 2, 2022		November 3, 2022	
	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)
00:00-01:00	-	Calm	-	Calm	-	Calm
01:00-02:00	-	Calm	-	Calm	-	Calm
02:00-03:00	-	Calm	-	Calm	-	Calm
03:00-04:00	-	Calm	-	Calm	-	Calm
04:00-05:00	-	Calm	-	Calm	-	Calm
05:00-06:00	-	Calm	-	Calm	-	Calm
06:00-07:00	NNW	0.9	-	Calm	-	Calm
07:00-08:00	-	Calm	-	Calm	-	Calm
08:00-09:00	-	Calm	NNW	0.9	-	Calm
09:00-10:00	NNW	0.9	NNW	0.9	-	Calm
10:00-11:00	-	Calm	NNW	0.9	-	Calm
11:00-12:00	NNE	0.9	NNW	0.9	NNW	0.9
12:00-13:00	NNW	1.3	NW	0.9	NNW	0.9
13:00-14:00	SSE	0.9	-	Calm	NW	0.9
14:00-15:00	NW	1.3	NNW	0.9	SSE	0.9
15:00-16:00	-	Calm	WNW	0.9	SSE	0.9
16:00-17:00	-	Calm	-	Calm	-	Calm
17:00-18:00	-	Calm	-	Calm	-	Calm
18:00-19:00	-	Calm	-	Calm	-	Calm
19:00-20:00	-	Calm	-	Calm	-	Calm
20:00-21:00	-	Calm	-	Calm	-	Calm
21:00-22:00	-	Calm	-	Calm	-	Calm
22:00-23:00	-	Calm	-	Calm	-	Calm
23:00-00:00	-	Calm	-	Calm	-	Calm

Measurement Method : - Wind Speed and Wind Direction recording meter

Remarks :

- WS = Wind Speed
- WD = Wind Direction

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E 250806

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Issued date : November 21, 2022

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

MEASUREMENT DATE : November 1-3, 2022

MEASUREMENT LOCATION : วัดหนองชุมแสง

MEASURED BY : Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

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	-	-	-	-	-
NNE	1.39	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	4.17	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	1.39	-	-	-	-
NW	2.78	1.39	-	-	-
NNW	12.50	1.39	-	-	-
CALM	75.00				

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Analysis Report

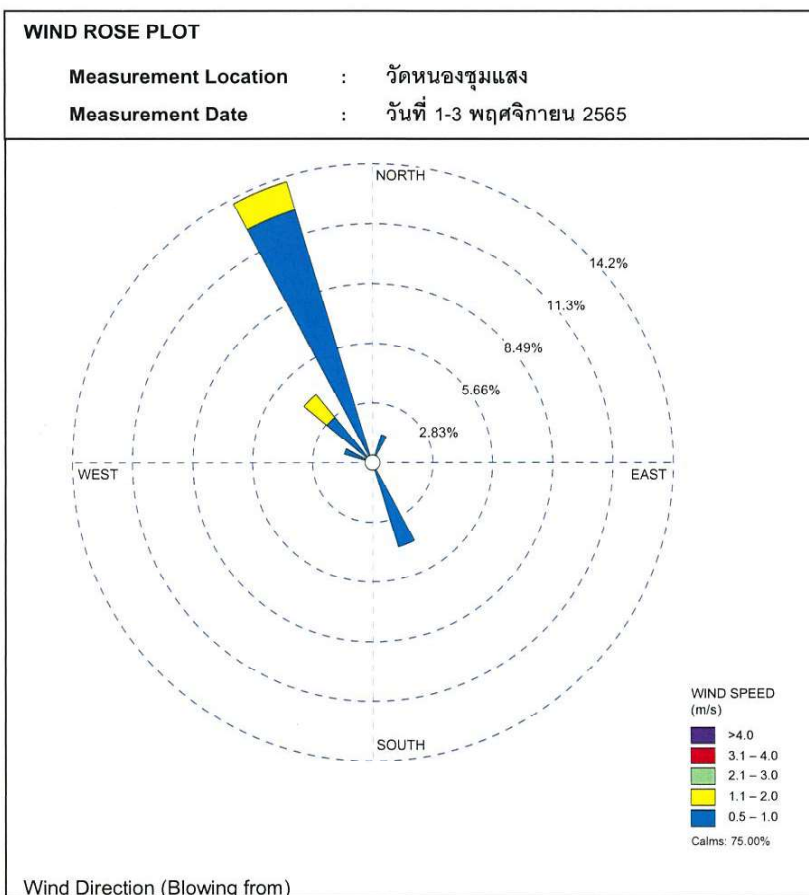
SAMPLE DESIGNATED AS : Ambient Air Quality

MEASUREMENT DATE : November 1-3, 2022

MEASUREMENT LOCATION : วัดหนองชุมแสง

MEASURED BY : Kittikhun Thaseepheth

Sukhothai Airport, Sukhothai Province



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

MEASUREMENT DATE : November 1-3, 2022

MEASUREMENT LOCATION : โรงเรียนวัดไทรย้อย

MEASURED BY : Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

Time	NO ₂ Concentration (ppm)		
	November 1, 2022	November 2, 2022	November 3, 2022
00:00-01:00	0.004	0.005	0.004
01:00-02:00	0.003	0.004	0.009
02:00-03:00	0.005	0.007	0.003
03:00-04:00	0.002	0.005	0.003
04:00-05:00	0.004	0.006	0.007
05:00-06:00	0.003	0.002	0.008
06:00-07:00	0.004	0.006	0.007
07:00-08:00	0.005	0.002	0.006
08:00-09:00	0.004	0.004	0.007
09:00-10:00	0.005	0.003	0.009
10:00-11:00	0.003	0.005	0.006
11:00-12:00	0.004	0.006	0.005
12:00-13:00	0.004	0.007	0.008
13:00-14:00	0.002	0.004	0.007
14:00-15:00	0.003	0.001	0.003
15:00-16:00	0.005	0.007	0.002
16:00-17:00	0.004	0.007	0.007
17:00-18:00	0.003	0.005	0.007
18:00-19:00	0.001	0.004	0.008
19:00-20:00	0.003	0.003	0.007
20:00-21:00	0.004	0.002	0.006
21:00-22:00	0.003	0.007	0.003
22:00-23:00	0.005	0.005	0.010
23:00-00:00	0.002	0.004	0.009
1 hr-Minimum	0.001	0.001	0.002
1 hr-Maximum	0.005	0.007	0.010
Avg. 24 hr	0.004	0.005	0.006
Standard* (avg. 1 hr)	0.17		

Analytical Method : - Chemiluminescence Method.

Source : * The notification of the National Environment Board No. 33, B.E. 2552 (2009), subjected "The nitrogen dioxide in ambient air standards", published in the Royal Government Gazette, Vol. 126, Special part 114D, dated August 14, B.E. 2552 (2009).



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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

MEASUREMENT DATE : November 1-3, 2022

MEASUREMENT LOCATION : โรงเรียนวัดไทรย้อย

MEASURED BY : Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

Time	CO Concentration (ppm)		
	November 1, 2022	November 2, 2022	November 3, 2022
00:00-01:00	0.922	1.064	0.970
01:00-02:00	0.852	1.024	0.951
02:00-03:00	0.899	0.998	0.891
03:00-04:00	0.904	0.952	0.877
04:00-05:00	0.811	0.931	0.847
05:00-06:00	0.799	0.910	0.816
06:00-07:00	0.751	0.885	0.801
07:00-08:00	0.716	1.003	0.797
08:00-09:00	0.732	1.188	0.851
09:00-10:00	0.721	0.965	0.942
10:00-11:00	0.761	1.055	1.015
11:00-12:00	0.841	1.031	1.055
12:00-13:00	0.965	1.054	1.100
13:00-14:00	1.129	1.026	1.121
14:00-15:00	1.141	1.093	1.110
15:00-16:00	1.157	1.127	1.155
16:00-17:00	1.140	1.141	1.204
17:00-18:00	1.154	1.102	1.219
18:00-19:00	1.133	1.070	1.259
19:00-20:00	1.192	1.149	1.301
20:00-21:00	1.215	1.516	1.536
21:00-22:00	1.368	1.312	1.412
22:00-23:00	1.256	1.183	1.285
23:00-00:00	1.174	1.098	1.233
1 hr-Minimum	0.716	0.885	0.797
1 hr-Maximum	1.368	1.516	1.536
Avg. 8 hrs	00:00-08:00	0.832	0.971
	08:00-16:00	0.931	1.067
	16:00-00:00	1.204	1.196
Standard* (avg. 1 hrs)		30	
Standard* (avg. 8 hr)		9	

Analytical Method : - UV Fluorescence Method.

Sources : * The notification of the National Environment Board No.10, B.E. 2538 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 112, Part 71D, dated September 5, B.E. 2538 (1995).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **MEASUREMENT DATE :** November 1-3, 2022
MEASUREMENT LOCATION : โรงเรียนวัดไทรย้อย **MEASURED BY :** Kittikhun Thaseepheth
 Sukhothai Airport, Sukhothai Province

TIME	November 1, 2022		November 2, 2022		November 3, 2022	
	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)
00:00-01:00	-	Calm	-	Calm	-	Calm
01:00-02:00	-	Calm	-	Calm	-	Calm
02:00-03:00	-	Calm	-	Calm	-	Calm
03:00-04:00	-	Calm	-	Calm	-	Calm
04:00-05:00	-	Calm	-	Calm	-	Calm
05:00-06:00	-	Calm	-	Calm	-	Calm
06:00-07:00	NNE	0.9	-	Calm	NNE	0.9
07:00-08:00	NNE	0.9	NNE	0.9	-	Calm
08:00-09:00	NE	0.9	NNE	1.8	NNE	0.9
09:00-10:00	NNE	0.9	NNE	1.3	NNE	0.9
10:00-11:00	NE	1.3	NNE	0.9	-	Calm
11:00-12:00	NE	1.3	NNE	0.9	-	Calm
12:00-13:00	NNE	0.9	NNE	0.9	-	Calm
13:00-14:00	-	Calm	-	Calm	-	Calm
14:00-15:00	-	Calm	NE	0.9	-	Calm
15:00-16:00	-	Calm	-	Calm	-	Calm
16:00-17:00	-	Calm	-	Calm	-	Calm
17:00-18:00	-	Calm	-	Calm	-	Calm
18:00-19:00	-	Calm	-	Calm	-	Calm
19:00-20:00	-	Calm	-	Calm	-	Calm
20:00-21:00	-	Calm	-	Calm	-	Calm
21:00-22:00	-	Calm	-	Calm	-	Calm
22:00-23:00	-	Calm	-	Calm	-	Calm
23:00-00:00	-	Calm	-	Calm	-	Calm

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

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Report No. : 2022-5004051-2 / 001-2 (Page 4 of 5)

Issued date : November 21, 2022

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)
CONTACT : Khun Chayakorn Sukontrakun
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 E-mail: chayakorn.suk@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality

MEASUREMENT DATE : November 1-3, 2022

MEASUREMENT LOCATION : โรงเรียนวัดไพรน้อย

MEASURED BY : Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province

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	-	-	-	-	-
NNE	15.28	2.78	-	-	-
NE	2.78	2.78	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	76.39				

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Report No. : 2022-5004051-2 / 001-2 (Page 5 of 5)

Issued date : November 21, 2022

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)
CONTACT : Khun Chayakorn Sukontrakun
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Analysis Report

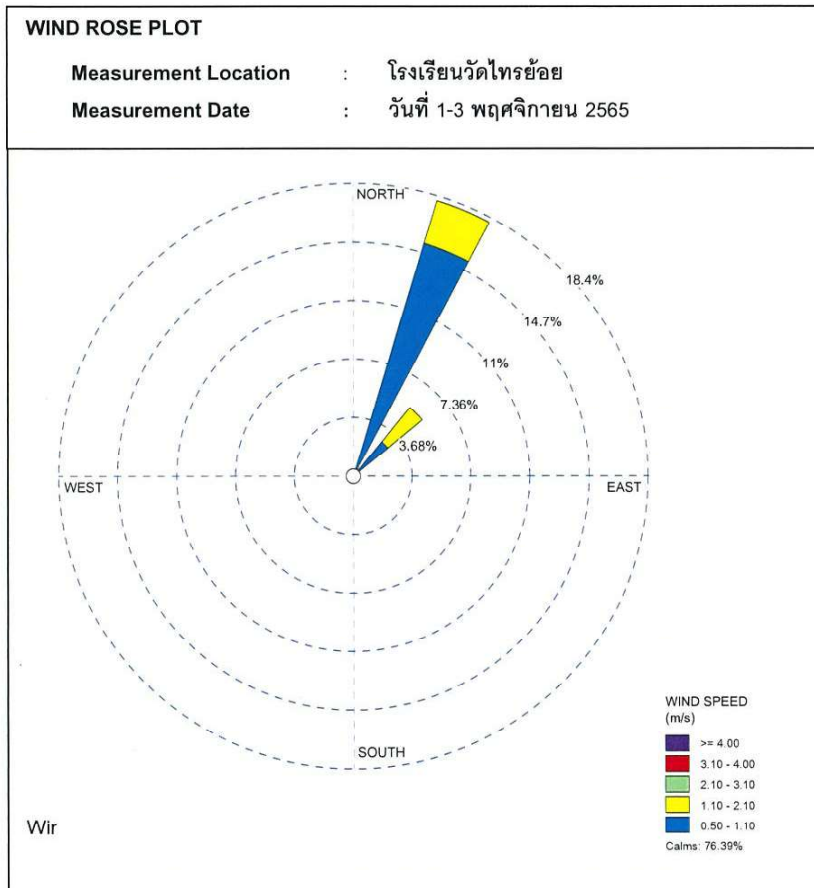
SAMPLE DESIGNATED AS : Ambient Air Quality

MEASUREMENT DATE : November 1-3, 2022

MEASUREMENT LOCATION : โรงเรียนวัดไทรย้อย

MEASURED BY : Kittikhun Thaseephet

Sukhothai Airport, Sukhothai Province



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ระดับเสียงทั่วไป (Leq-24 hr)

Report No. : 2022-5005041-2 / 002-1 (Page 1 of 1)

Issued date : December 14, 2022

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)
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Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** November 1-3, 2022
MEASUREMENT LOCATION : วัดหนองชุมแสง **MEASURED BY :** Kittikhun Thaseephet
CALIBRATION DATA : Calibrator Model CR:515, Cirrus, Serial No. 80400, Calibration Value
 Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A) Post Cal : 93.7 dB(A)
SOUND LEVEL METER NO. : Model CR:161B, Cirrus, Serial No. G080132

Time	Noise Level [dB(A)]									Standard
	November 1, 2022			November 2, 2022			November 3, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00-01:00	43.2	55.2	40.4	45.5	57.5	42.1	51.8	72.7	40.9	
01:00-02:00	49.8	71.8	40.2	50.2	72.3	41.0	45.3	63.5	43.9	
02:00-03:00	48.0	69.8	43.1	49.0	70.7	41.2	49.8	70.4	44.1	
03:00-04:00	47.7	69.5	43.4	49.5	71.9	41.7	50.1	71.2	45.0	
04:00-05:00	58.4	71.4	40.4	53.3	72.0	45.2	58.7	69.2	45.3	
05:00-06:00	59.2	73.7	42.3	55.3	72.6	39.9	65.6	74.9	59.7	
06:00-07:00	51.7	74.3	41.1	49.6	66.5	41.2	62.4	69.7	53.4	
07:00-08:00	53.0	74.7	42.7	53.8	76.2	44.7	57.6	73.9	47.4	
08:00-09:00	60.0	74.9	44.9	51.8	71.7	43.2	49.6	66.2	43.6	
09:00-10:00	60.2	73.8	42.6	53.9	72.0	43.0	48.8	65.0	43.9	
10:00-11:00	46.4	61.8	41.7	54.1	73.2	39.8	54.3	74.0	40.8	
11:00-12:00	54.4	75.0	39.5	49.4	71.4	39.8	49.4	62.6	40.5	
12:00-13:00	42.9	57.9	36.7	51.4	73.3	39.8	46.6	64.1	37.2	
13:00-14:00	47.4	72.8	36.8	51.8	80.0	38.3	52.2	73.5	42.8	
14:00-15:00	45.8	63.1	38.1	51.2	68.8	40.0	52.7	73.2	40.2	
15:00-16:00	47.5	65.8	39.2	49.1	68.3	37.7	47.1	65.3	39.0	
16:00-17:00	50.4	64.0	42.5	60.9	71.9	40.2	61.1	73.8	39.2	
17:00-18:00	51.3	64.4	44.6	65.1	74.7	60.5	66.1	75.4	57.7	
18:00-19:00	53.6	69.0	45.2	56.1	68.5	50.4	60.1	72.2	55.3	
19:00-20:00	52.5	80.7	46.3	63.1	74.0	48.3	63.7	74.8	46.3	
20:00-21:00	49.9	63.4	45.2	61.4	76.8	42.0	59.1	72.9	45.0	
21:00-22:00	45.7	56.4	42.7	52.2	70.8	40.3	48.6	72.8	41.8	
22:00-23:00	45.1	54.4	42.4	44.4	62.0	40.2	49.4	69.5	41.6	
23:00-00:00	44.3	56.8	41.8	45.8	63.3	40.0	49.3	70.5	41.0	
Leq 24 hrs	53.6	-	-	56.6	-	-	58.7	-	-	70 ^{1/}
Ldn	59.9	-	-	58.2	-	-	65.1	-	-	-
Lmax	-	80.7	-	-	80.0	-	-	75.4	-	115 ^{1/}
L90	-	-	36.7-46.3	-	-	37.7-60.5	-	-	37.2-59.7	-

Source: ^{1/} Notification of National Environmental Board, Vol. 15, B.E. 2540, dated September 12, B.E. 2540 (1997).

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Report No. : 2022-5005041-2 / 002-2 (Page 1 of 1)

Issued date : December 14, 2022

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)
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 E-mail: chayakorn.suk@bangkokair.com

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** November 1-3, 2022
MEASUREMENT LOCATION : โรงเรียนวัดไทรย้อย **MEASURED BY :** Kittikhun Thaseephet
CALIBRATION DATA : Calibrator Model CR:515, Cirrus, Serial No. 80400, Calibration Value
 Reference : 94.0 dB(A), Pre Cal : 93.7 dB(A) Post Cal : 93.7 dB(A)
SOUND LEVEL METER NO. : Model CR:171B, Cirrus, Serial No. G078137

Time	Noise Level [dB(A)]									Standard
	November 1, 2022			November 2, 2022			November 3, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00-01:00	44.9	58.2	43.6	44.2	58.8	42.4	46.7	56.9	45.6	
01:00-02:00	44.8	61.4	43.2	45.7	70.2	42.1	44.0	61.3	40.3	
02:00-03:00	44.9	63.9	42.9	43.4	61.4	42.0	41.1	50.3	40.2	
03:00-04:00	44.6	57.4	43.8	42.7	56.8	41.8	46.5	56.5	40.1	
04:00-05:00	44.5	61.7	43.2	43.0	62.6	40.9	41.6	59.9	40.2	
05:00-06:00	47.7	70.6	43.5	50.5	73.7	41.1	46.6	66.4	40.8	
06:00-07:00	50.3	73.3	44.8	57.6	68.7	47.8	48.1	62.4	42.8	
07:00-08:00	53.6	71.4	47.2	59.8	85.5	51.7	52.4	68.5	45.4	
08:00-09:00	52.3	70.6	46.4	59.7	79.5	47.8	50.2	66.2	45.1	
09:00-10:00	51.1	67.5	46.2	58.9	79.9	46.7	53.6	76.1	44.5	
10:00-11:00	53.0	65.0	48.7	57.6	81.6	47.2	50.6	63.5	44.5	
11:00-12:00	50.3	69.2	45.2	59.2	74.2	47.3	52.6	67.5	45.1	
12:00-13:00	50.7	65.4	45.6	58.4	80.5	47.5	53.0	68.6	46.5	
13:00-14:00	48.0	59.1	42.7	68.8	83.6	51.4	49.4	68.6	43.2	
14:00-15:00	47.9	64.9	42.6	64.1	81.1	52.1	47.8	65.2	40.8	
15:00-16:00	49.5	64.8	44.0	56.9	74.6	49.7	46.9	65.1	40.6	
16:00-17:00	50.0	66.9	45.6	60.6	77.0	49.1	47.8	61.9	41.9	
17:00-18:00	52.8	67.3	47.4	52.5	68.0	46.7	49.0	70.3	43.9	
18:00-19:00	53.8	73.7	48.8	51.2	72.3	44.6	49.3	67.0	44.2	
19:00-20:00	51.3	66.6	46.7	47.7	60.6	43.4	48.1	67.1	43.8	
20:00-21:00	50.9	68.0	45.4	49.1	72.6	43.6	47.9	68.3	43.1	
21:00-22:00	59.8	92.6	44.6	50.8	68.1	44.9	54.4	67.5	46.5	
22:00-23:00	47.1	63.3	45.0	53.4	56.8	52.8	45.7	56.1	43.4	
23:00-00:00	44.8	58.3	43.0	51.1	59.6	46.7	48.6	69.5	42.5	
Leq 24 hrs	51.4	-	-	58.8	-	-	49.6	-	-	70 ^{1/}
Ldn	54.6	-	-	60.8	-	-	52.9	-	-	-
Lmax	-	92.6	-	-	85.5	-	-	76.1	-	115 ^{1/}
L90	-	-	42.6-48.8	-	-	40.9-52.8	-	-	40.1-46.5	-

Source: ^{1/} Notification of National Environmental Board, Vol. 15, B.E. 2540, dated September 12, B.E. 2540 (1997).

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คุณภาพน้ำใต้ดิน

Report No. : 2022-5004051-2 / 005-1 (Page 1 of 1)

Issued date : November 21, 2022

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)
CONTACT : Khun Chayakorn Sukontrakun
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Analysis Report

SAMPLE DESIGNATED AS : Groundwater Quality
SAMPLING LOCATION : บ่อบาดาลที่ทางเจ้าของโครงการขุดเจาะไว้
 เป็นบ่อสังเกตการณ์

SAMPLING DATE : November 2, 2022

SAMPLING TIME : 11.35 hr.

SAMPLING BY : Kittikhun Thaseephet

Parameter	Unit	Method	Analytical Value	Standard ^{1/}	
				Optimal Value	Maximum Allowable
pH	-	APHA, 4500-H+ B	6.05	7.0-8.5	6.5-9.2
Odor	-	TIS 257, 2-2521	None	-	-
Color	Pt.Co	APHA, 2120 C	<1	5	15
Turbidity	NTU	APHA, 2130 B	8.2	5	20
Suspended Solids	mg/l	APHA, 2540 D	<2.5	-	-
Total Solid	mg/l	APHA, 2540 B	322	-	-
Conductivity	us/cm	APHA, 2510 B	422	-	-
Total Hardness as CaCO ₃	mg/l	APHA, 2340 C	111	≥300	500
Chloride (Cl ⁻)	mg/l	APHA, 4500-Cl D	65	≥250	600
Sulfate (SO ₄ ²⁻)	mg/l	APHA, 4500-SO4	4	≥200	250
Nitrate (NO ₃)	mg/l	APHA, 4110B	0.544	≥45	45
Iron (Fe)	mg/l	APHA, 3125 B	0.994	≥0.5	1.0
Manganese (Mn)	mg/l	APHA, 3125 B	1.874	≥0.3	0.5
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	<1.1	≥2.2	-
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 C	<1.1	-	-

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

Source: ^{1/} Notification of the Ministry of Natural Resources and Environment, B.E. 2551 (2008), published in the Royal Government Gazette, Vol. 125, Special Part 85D, dated May 21, B.E. 2551 (2008).

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Report No. : 2022-5004051-2 / 004-1 (Page 1 of 1)

Issued date : November 21, 2022

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (SUKHOTHAI AIRPORT)
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Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality
SAMPLING DATE : November 2, 2022
SAMPLING LOCATION : 1. แม่น้ำยมบริเวณวัดไทรย้อย บ้านคลองกระจุย (สถานีด้านเหนือพื้นที่โครงการ)
 2. แม่น้ำยมบริเวณวัดเกาะ บ้านเกาะ (สถานีต้นน้ำ)
 3. แม่น้ำยมบริเวณสะพานพัฒนาเหนือ (สถานีท้ายน้ำ)

Parameter	Unit	Method	Analytical Value			Standard ^{1/}
			1	2	3	
Sampling Time	hr.	-	12.10	13.30	14.00	-
pH	-	APHA, 4500-H+ B	7.01	7.24	7.21	5.0-9.0
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	8.8	8.6	8.4	≥4.0
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	3	4	5	≥2.0
Nitrate (NO ₃) as N	mg/l	APHA, 4500-NO ₃ E	2.812	3.183	3.638	≥5.0
Total Coliform Bacteria	MPN/100ml	APHA, 9221 B	3,300	2,400	3,300	≥20,000

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

Standards : ^{1/} Notification of the National Environment Board No. 8, B.E. 2537 (1994), which was issued under the Enhancement and Conservation of National Environmental Quality Act B.E. 2535 (1992) dated January 20, B.E. 2537 (1994)
 Class 3 Moderately clean fresh surface water resources use for:
 (1) Consumption, but the water should be conservational treated before use.
 (2) Agriculture.

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