

ภาคผนวก

ภาคผนวก ก	หนังสือรับรองผลการตรวจวิเคราะห์
ภาคผนวก ข	ผลการสำรวจสภาพเศรษฐกิจ-สังคม และความคิดเห็น ของโครงการพัฒนาท่าอากาศยานภูเก็ต : การปรับปรุง Runway Strip, RESA และทางขับขนานท่าอากาศยานภูเก็ต ในระยะก่อสร้าง
ภาคผนวก ค	- สำเนาใบรับรองมาตรฐาน ISO/IEC 17025/2017 - สำเนาใบรับรองมาตรฐาน ISO 9001/2015
ภาคผนวก ง	สำเนาใบรับรองการสอบเทียบเครื่องมือ
ภาคผนวก จ	มาตรฐานที่เกี่ยวข้อง

ภาคผนวก ก

หนังสือรับรองผลการตรวจวิเคราะห์

ผลการตรวจวัดคุณภาพอากาศในบรรยากาศ

Report No. : 2022-5003734 / 002-1 (Page 1 of 9)

Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
CONTACT : Khun Tiwa Hanprasankit
ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : เขต Airside บริเวณคลังสินค้า **SAMPLING BY :** Kittikhun Thaseephet
 ของบริษัท ดิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	TSP (mg/m ³)
เขต Airside บริเวณคลังสินค้าของ บริษัท ดิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)	April 21, 2022	0.061
	April 22, 2022	0.054
	April 23, 2022	0.055
	April 24, 2022	0.056
	April 25, 2022	0.053
	April 26, 2022	0.054
	April 27, 2022	0.050
Standard ^{1/}		0.33

Remark : - Sampling and analytical technique for TSP based on High Volume Air Sampler / Gravimetric Method.
Source : ^{1/} Notification of the National Environment Board No.24, B.E.2547 (2004), dated August 9, B.E.2547 (2004).

Technical Manager

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Analysis Report

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SAMPLING LOCATION : เขต Airside บริเวณคลังสินค้าของบริษัท ดิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม) **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	PM-10 (mg/m ³)
เขต Airside บริเวณคลังสินค้าของ บริษัท ดิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)	April 21, 2022	0.035
	April 22, 2022	0.034
	April 23, 2022	0.034
	April 24, 2022	0.028
	April 25, 2022	0.027
	April 26, 2022	0.028
	April 27, 2022	0.029
Standard ¹⁾		0.12

Remark : - Sampling and analytical technique for PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.
Source : 1) Notification of the National Environment Board No.24, B.E.2547 (2004), dated August 9, B.E.2547 (2004).



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 ของบริษัท ดิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	THC (ppm)
Airside คลังสินค้า King Power (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)	April 21, 2022	3.47
	April 22, 2022	3.78
	April 23, 2022	3.83
	April 24, 2022	3.88
	April 25, 2022	3.66
	April 26, 2022	3.01
	April 27, 2022	3.21

[Redacted Signature]

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 ของบริษัท คิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)
LABORATORY NAME : SGS (Thailand) Limited

Time	CO Concentration (ppm)						
	April 21, 2022	April 22, 2022	April 23, 2022	April 24, 2022	April 25, 2022	April 26, 2022	April 27, 2022
00:00-01:00	0.135	0.684	0.449	0.432	0.828	0.790	0.751
01:00-02:00	0.112	0.609	0.293	0.907	0.833	0.378	0.358
02:00-03:00	0.081	0.222	0.677	0.242	0.497	0.692	0.392
03:00-04:00	0.061	0.203	0.837	0.874	0.376	0.290	0.749
04:00-05:00	0.060	0.297	0.681	0.855	0.757	0.216	0.666
05:00-06:00	0.035	0.565	0.742	0.890	0.269	0.697	0.215
06:00-07:00	0.064	0.427	0.833	0.722	0.494	0.266	0.304
07:00-08:00	0.085	0.296	0.783	0.561	0.837	0.779	0.815
08:00-09:00	0.111	0.249	0.344	0.333	0.517	0.335	0.375
09:00-10:00	0.142	0.488	0.583	0.846	0.625	0.459	0.895
10:00-11:00	0.085	0.830	0.483	0.306	0.614	0.962	0.316
11:00-12:00	0.068	0.434	0.249	0.735	0.401	0.451	0.343
12:00-13:00	0.017	0.474	0.441	0.877	0.048	0.289	0.331
13:00-14:00	0.032	0.922	0.505	0.220	0.026	0.323	0.631
14:00-15:00	0.063	0.887	0.755	0.912	0.056	0.570	0.466
15:00-16:00	0.072	0.528	0.581	0.368	0.027	0.673	0.872
16:00-17:00	0.042	0.608	0.348	0.800	0.059	0.492	0.784
17:00-18:00	0.677	0.600	0.534	0.256	0.091	0.741	0.635
18:00-19:00	0.589	0.262	0.654	0.492	0.070	0.757	0.498
19:00-20:00	0.745	0.719	0.602	0.434	0.054	0.307	0.898
20:00-21:00	0.399	0.567	0.401	0.453	0.798	0.276	0.272
21:00-22:00	0.759	0.862	0.856	0.571	0.395	0.248	0.824
22:00-23:00	0.577	0.215	0.539	0.564	0.758	0.858	0.384
23:00-00:00	0.370	0.694	0.434	0.932	0.835	0.748	0.243
1 hr-Minimum	0.017	0.203	0.249	0.220	0.026	0.216	0.215
1 hr-Maximum	0.759	0.922	0.856	0.932	0.837	0.962	0.898
Avg. 8 hrs	00:00-08:00	0.079	0.413	0.662	0.685	0.611	0.514
	08:00-16:00	0.074	0.602	0.493	0.575	0.289	0.508
	16:00-00:00	0.520	0.566	0.546	0.563	0.383	0.567
Standard* (avg. 8 hrs)	9						
Standard* (avg. 1 hr)	30						

Analytical Method : - Non-Dispersive Infrared (NDIR) Method.
Source : * Notification of the National Environment Board No.10, B.E.2538 (1995), dated April 17, B.E.2538 (1995).

Technical Manager

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : เขต Airside บริเวณคลังสินค้า **SAMPLING BY :** Kittikhun Thaseepheth
 ของบริษัท คิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)
LABORATORY NAME : SGS (Thailand) Limited

Time	NO ₂ Concentration (ppm)						
	April 21, 2022	April 22, 2022	April 23, 2022	April 24, 2022	April 25, 2022	April 26, 2022	April 27, 2022
00:00-01:00	0.005	0.008	0.002	0.002	0.003	0.005	0.005
01:00-02:00	0.005	0.005	0.003	0.005	0.003	0.006	0.006
02:00-03:00	0.004	0.007	0.007	0.003	0.003	0.007	0.005
03:00-04:00	0.006	0.009	0.006	0.005	0.002	0.005	0.003
04:00-05:00	0.005	0.008	0.007	0.005	0.002	0.005	0.005
05:00-06:00	0.006	0.005	0.002	0.008	0.004	0.003	0.006
06:00-07:00	0.006	0.007	0.004	0.009	0.005	0.005	0.005
07:00-08:00	0.004	0.004	0.002	0.005	0.002	0.006	0.003
08:00-09:00	0.006	0.003	0.003	0.005	0.005	0.005	0.008
09:00-10:00	0.004	0.003	0.003	0.004	0.005	0.003	0.005
10:00-11:00	0.006	0.005	0.006	0.005	0.004	0.010	0.003
11:00-12:00	0.006	0.007	0.003	0.007	0.003	0.006	0.003
12:00-13:00	0.005	0.006	0.006	0.005	0.004	0.009	0.004
13:00-14:00	0.006	0.006	0.006	0.006	0.006	0.007	0.004
14:00-15:00	0.007	0.006	0.004	0.007	0.005	0.010	0.002
15:00-16:00	0.005	0.005	0.007	0.003	0.003	0.008	0.005
16:00-17:00	0.007	0.004	0.006	0.009	0.005	0.004	0.003
17:00-18:00	0.005	0.003	0.004	0.004	0.004	0.004	0.002
18:00-19:00	0.007	0.007	0.006	0.003	0.003	0.004	0.005
19:00-20:00	0.008	0.004	0.006	0.006	0.005	0.003	0.005
20:00-21:00	0.006	0.006	0.005	0.003	0.002	0.007	0.003
21:00-22:00	0.007	0.008	0.003	0.008	0.003	0.005	0.002
22:00-23:00	0.004	0.005	0.004	0.002	0.004	0.002	0.004
23:00-00:00	0.006	0.008	0.002	0.005	0.002	0.002	0.003
1 hr-Minimum	0.004	0.003	0.002	0.002	0.002	0.002	0.002
1 hr-Maximum	0.008	0.009	0.007	0.009	0.006	0.010	0.008
Standard* (avg. 1 hr)	>0.17						

Analytical Method : - Chemiluminescence Method.
Source : * Notification of the National Environment Board No.33, B.E.2552 (2009), dated June 17, B.E.2552 (2009).

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SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : เขต Alside บริเวณคลังสินค้า **SAMPLING BY :** Kittikhun Thaseephet
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LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr, µg/m³)							Surveillant value* (µg/m³)	Standard** (µg/m³)
	April 21, 2022	April 22, 2022	April 23, 2022	April 24, 2022	April 25, 2022	April 26, 2022	April 27, 2022		
VOCs									
1. Vinyl Chloride	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	20	-
2. 1,3-Butadiene (Butadiene)	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	5.3	-
3. Acetaldehyde	13.56	3.61	14.36	10.53	17.96	19.55	9.54	860	-
4. Bromomethane	<0.19	<0.19	0.93	0.62	<0.19	2.02	<0.19	190	-
5. Acrolein	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	0.55	-
6. Carbonylsulfide	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	-	100
7. Dichloromethane	0.83	0.97	2.27	2.13	2.02	1.86	1.93	210	-
8. Chloroform	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	57	-
9. Carbon Tetrachloride	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	150	-
10. Benzene	0.26	<0.16	0.38	0.38	1.15	1.15	0.26	7.6	-
11. 1,2-dichloroethane (EDC)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	48	-
12. Trichloroethylene	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	130	-
13. 1,2-dichloropropane	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	82	-
14. 1,4-Dioxane	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	860	-
15. Tetrachloroethylene	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	400	-
16. 1,2-dibromoethane	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	370	-
17. 1,1,2,2-tetrachloroethane	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	83	-
18. 1,4-dichlorobenzene	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1,100	-
19. Benzyl Chloride	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	12	-
20. Acrylonitrile	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Sources: - Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
 - Notification of the National Environment Board, subjected 'The standard values of Carbonylsulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230E, dated September 20, B.E. 2560 (2017).

Technical Manager

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 ของบริษัท คิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)
LABORATORY NAME : SGS (Thailand) Limited

TIME	April 21, 2022		April 22, 2022		April 23, 2022		April 24, 2022		April 25, 2022		April 26, 2022		April 27, 2022	
	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)
00:00-01:00	-	CALM	S	0.9	-	CALM	NE	0.9	-	CALM	-	CALM	N	5.8
01:00-02:00	NE	0.9	SE	0.9	ENE	0.9	SE	0.9	SE	0.9	-	CALM	ENE	1.8
02:00-03:00	E	0.9	SE	0.9	ENE	0.9	-	CALM	-	CALM	-	CALM	E	0.9
03:00-04:00	-	CALM	-	CALM	-	CALM	S	1.3	-	CALM	-	CALM	E	0.9
04:00-05:00	-	CALM	-	CALM	-	CALM	ENE	1.3	-	CALM	-	CALM	-	CALM
05:00-06:00	NNE	2.2	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	SE	0.9
06:00-07:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	E	0.9	SSE	0.9
07:00-08:00	-	CALM	-	CALM	ENE	0.9	-	CALM	-	CALM	-	CALM	E	0.9
08:00-09:00	E	1.8	S	1.3	E	0.9	SSE	0.9	NE	0.9	ESE	0.9	E	1.8
09:00-10:00	E	3.1	E	2.2	ENE	3.1	ESE	1.8	E	3.1	SE	2.2	E	1.8
10:00-11:00	E	3.6	E	3.6	E	3.6	E	2.2	E	3.1	SE	2.2	ENE	2.2
11:00-12:00	E	4.5	E	4.0	E	3.6	E	2.7	E	3.1	E	2.7	WNW	3.6
12:00-13:00	E	3.1	E	3.6	E	3.1	E	3.6	E	3.6	E	3.1	WNW	4.0
13:00-14:00	E	3.6	E	4.0	E	3.6	E	3.1	E	3.6	E	2.2	NW	4.5
14:00-15:00	E	3.6	E	2.2	E	4.0	E	3.1	E	3.1	W	3.6	NW	4.5
15:00-16:00	E	2.2	NW	4.0	E	3.6	W	3.6	E	2.7	SW	3.1	NW	4.5
16:00-17:00	W	4.5	NW	4.0	E	2.2	W	4.9	W	4.0	W	4.9	NW	4.0
17:00-18:00	WNW	3.1	NW	4.0	W	3.6	W	4.9	W	4.0	WNW	5.4	NNW	4.0
18:00-19:00	ESE	2.2	NNW	4.0	W	4.0	WNW	4.0	W	3.6	WNW	5.4	NNW	4.0
19:00-20:00	NE	2.2	NW	3.6	WSW	2.7	WNW	3.6	WSW	2.7	NW	4.9	NNW	3.6
20:00-21:00	NE	1.3	N	2.7	WNW	3.1	E	3.1	W	2.7	WNW	4.5	N	3.1
21:00-22:00	ENE	1.8	E	3.6	NW	3.1	SE	1.3	SE	0.9	NW	4.9	N	1.8
22:00-23:00	-	CALM	SSE	0.9	NW	2.7	SE	1.3	S	2.7	WNW	4.9	-	CALM
23:00-00:00	-	CALM	SE	0.9	NE	2.2	NE	0.9	ENE	0.9	WNW	5.4	NW	0.9

Measurement Method : - Wind speed and direction recording meter



Technical Manager

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Report No. : 2022-5003734 / 002-1 (Page 8 of 9)

Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : เขต Airside บริเวณคลังสินค้า **SAMPLING BY :** Kittikhun Thaseephet
 ของบริษัท คิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)
LABORATORY NAME : SGS (Thailand) Limited

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	0.60	0.60	0.60
NNE	-	-	0.60	-	-
NE	2.38	0.60	1.19	-	-
ENE	2.38	1.79	0.60	0.60	-
E	3.57	1.79	5.36	16.07	0.60
ESE	0.60	0.60	0.60	-	-
SE	4.17	1.19	1.19	-	-
SSE	1.79	-	-	-	-
S	0.60	1.19	0.60	-	-
SSW	-	-	-	-	-
SW	-	-	-	0.60	-
WSW	-	-	1.19	-	-
W	-	-	0.60	4.17	2.38
WNW	-	-	-	3.57	2.98
NW	0.60	-	0.60	3.57	2.98
NNW	-	-	-	2.38	-
CALM	22.02				

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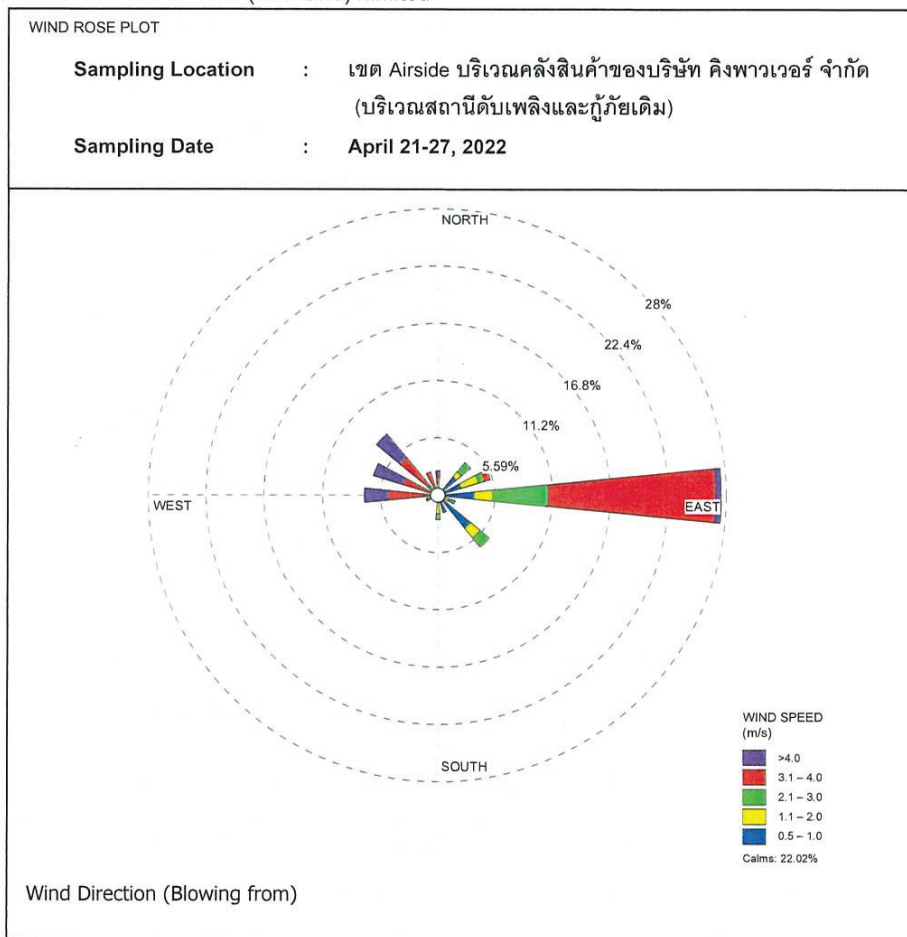
Report No. : 2022-5003734 / 002-1 (Page 9 of 9)

Issued date : May 27, 2022

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : เขต Airside บริเวณคลังสินค้าของบริษัท ดิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)
LABORATORY NAME : SGS (Thailand) Limited **SAMPLING BY :** Kittikhun Thaseephet



Technical Manager

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Report No. : 2022-5003734 / 002-2 (Page 1 of 9)

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : April 21-27, 2022
SAMPLING LOCATION : บริเวณลานจอดรถหน้าอาคารผู้โดยสาร **SAMPLING BY** : Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	TSP (mg/m ³)
บริเวณลานจอดรถหน้าอาคารผู้โดยสาร	April 21, 2022	0.086
	April 22, 2022	0.073
	April 23, 2022	0.072
	April 24, 2022	0.067
	April 25, 2022	0.071
	April 26, 2022	0.069
	April 27, 2022	0.071
Standard ^{1/}		0.33

Remark : - Sampling and analytical technique for TSP based on High Volume Air Sampler / Gravimetric Method.

Source : ^{1/} Notification of the National Environment Board No.24, B.E.2547 (2004), dated August 9, B.E.2547 (2004).

Technical Manager

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Report No. : 2022-5003734 / 002-2 (Page 2 of 9)

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : April 21-27, 2022
SAMPLING LOCATION : บริเวณลานจอดรถหน้าอาคารผู้โดยสาร **SAMPLING BY** : Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	PM-10 (mg/m ³)
บริเวณลานจอดรถหน้าอาคารผู้โดยสาร	April 21, 2022	0.040
	April 22, 2022	0.034
	April 23, 2022	0.038
	April 24, 2022	0.038
	April 25, 2022	0.035
	April 26, 2022	0.035
	April 27, 2022	0.036
Standard ^{1/}		0.12

Remark : - Sampling and analytical technique for PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.

Source : ^{1/} Notification of the National Environment Board No.24, B.E.2547 (2004), dated August 9, B.E.2547 (2004).

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Report No. : 2022-5003734 / 002-2 (Page 3 of 9)

Issued date : May 27, 2022

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : April 21-27, 2022
SAMPLING LOCATION : บริเวณลานจอดรถหน้าอาคารผู้โดยสาร **SAMPLING BY** : Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	THC (ppm)
บริเวณลานจอดรถหน้าอาคารผู้โดยสาร	April 21, 2022	4.92
	April 22, 2022	4.62
	April 23, 2022	4.27
	April 24, 2022	4.42
	April 25, 2022	4.85
	April 26, 2022	4.93
	April 27, 2022	4.48

(Thasapan Pannakorn)
Technical Manager

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SGS (THAILAND) LIMITED



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Report No. : 2022-5003734 / 002-2 (Page 4 of 9)

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณลานจอดรถหน้าอาคารผู้โดยสาร **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

Time	CO Concentration (ppm)						
	April 21, 2022	April 22, 2022	April 23, 2022	April 24, 2022	April 25, 2022	April 26, 2022	April 27, 2022
00:00-01:00	0.609	0.595	0.149	0.732	0.769	0.759	0.719
01:00-02:00	0.607	0.664	0.204	0.710	0.832	0.806	0.725
02:00-03:00	0.551	0.643	0.230	0.731	0.768	0.762	0.798
03:00-04:00	0.534	0.724	0.262	0.749	0.885	0.842	0.857
04:00-05:00	0.491	0.576	0.145	0.640	0.761	0.757	0.752
05:00-06:00	0.547	0.590	0.102	0.629	0.694	0.710	0.740
06:00-07:00	0.658	0.676	0.651	0.638	0.661	0.704	0.692
07:00-08:00	0.639	0.707	1.224	0.703	0.783	0.685	0.771
08:00-09:00	0.757	0.869	1.796	0.667	0.773	0.881	0.785
09:00-10:00	0.459	0.599	0.536	0.546	0.687	0.657	0.654
10:00-11:00	0.464	0.544	0.039	0.539	0.660	0.619	0.616
11:00-12:00	0.398	0.529	0.263	0.507	0.629	0.577	0.563
12:00-13:00	0.360	0.497	0.484	0.504	0.631	0.553	0.548
13:00-14:00	0.345	0.462	0.929	0.503	0.645	0.557	0.544
14:00-15:00	0.451	0.450	1.756	0.514	0.659	0.592	0.565
15:00-16:00	0.576	0.602	0.977	0.639	0.779	0.756	0.683
16:00-17:00	0.677	0.802	1.147	0.731	0.989	0.878	0.909
17:00-18:00	0.523	0.604	1.226	0.672	0.735	0.737	0.691
18:00-19:00	0.519	0.641	1.536	0.726	0.718	0.752	0.719
19:00-20:00	0.466	0.070	0.976	0.742	0.703	0.702	0.700
20:00-21:00	0.497	0.024	0.696	0.724	0.680	0.689	0.779
21:00-22:00	0.524	0.028	0.689	0.701	0.684	0.717	0.815
22:00-23:00	0.582	0.997	0.692	0.708	0.678	0.715	0.801
23:00-00:00	0.599	0.072	0.707	0.727	0.698	0.762	0.823
1 hr-Minimum	0.345	0.024	0.039	0.503	0.629	0.553	0.544
1 hr-Maximum	0.757	0.997	1.796	0.749	0.989	0.881	0.909
Avg. 8 hrs	00:00-08:00	0.580	0.647	0.371	0.692	0.769	0.757
	08:00-16:00	0.476	0.569	0.848	0.552	0.683	0.620
	16:00-00:00	0.548	0.405	0.959	0.716	0.736	0.780
Standard* (avg. 8 hrs)		9					
Standard* (avg. 1 hr)		30					

Analytical Method : - Non-Dispersive Infrared (NDIR) Method.
Source : * Notification of the National Environment Board No.10, B.E.2538 (1995), dated April 17, B.E.2538 (1995).

Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2022-5003734 / 002-2 (Page 5 of 9)

Issued date : May 27, 2022

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณลานจอดรถหน้าอาคารผู้โดยสาร **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

Time	NO ₂ Concentration (ppm)						
	April 21, 2022	April 22, 2022	April 23, 2022	April 24, 2022	April 25, 2022	April 26, 2022	April 27, 2022
00:00-01:00	0.010	0.009	0.012	0.005	0.007	0.005	0.008
01:00-02:00	0.009	0.008	0.005	0.004	0.005	0.004	0.005
02:00-03:00	0.007	0.007	0.004	0.003	0.005	0.004	0.005
03:00-04:00	0.002	0.006	0.003	0.004	0.005	0.003	0.004
04:00-05:00	0.005	0.006	0.003	0.003	0.004	0.003	0.004
05:00-06:00	0.007	0.007	0.004	0.006	0.005	0.004	0.005
06:00-07:00	0.010	0.008	0.006	0.006	0.005	0.005	0.008
07:00-08:00	0.010	0.009	0.007	0.006	0.007	0.006	0.008
08:00-09:00	0.012	0.010	0.013	0.007	0.008	0.007	0.010
09:00-10:00	0.010	0.011	0.009	0.007	0.007	0.006	0.010
10:00-11:00	0.008	0.013	0.007	0.009	0.006	0.006	0.016
11:00-12:00	0.013	0.011	0.008	0.006	0.006	0.007	0.017
12:00-13:00	0.011	0.013	0.007	0.006	0.006	0.007	0.016
13:00-14:00	0.014	0.015	0.008	0.007	0.007	0.013	0.014
14:00-15:00	0.015	0.019	0.009	0.008	0.009	0.010	0.015
15:00-16:00	0.019	0.018	0.008	0.010	0.011	0.011	0.012
16:00-17:00	0.019	0.016	0.011	0.012	0.012	0.013	0.014
17:00-18:00	0.024	0.016	0.013	0.015	0.014	0.016	0.017
18:00-19:00	0.017	0.016	0.013	0.017	0.014	0.017	0.014
19:00-20:00	0.018	0.014	0.017	0.011	0.013	0.016	0.013
20:00-21:00	0.020	0.006	0.020	0.007	0.010	0.015	0.012
21:00-22:00	0.019	0.012	0.020	0.012	0.010	0.019	0.014
22:00-23:00	0.017	0.013	0.010	0.014	0.011	0.012	0.012
23:00-00:00	0.013	0.012	0.007	0.009	0.008	0.007	0.007
1 hr-Minimum	0.002	0.006	0.003	0.003	0.004	0.003	0.004
1 hr-Maximum	0.024	0.019	0.020	0.017	0.014	0.019	0.017
Standard* (avg. 1 hr)	>0.17						

Analytical Method : - Chemiluminescence Method.
Source : * Notification of the National Environment Board No.33, B.E.2552 (2009), dated June 17, B.E.2552 (2009).

Technical Manager

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Report No. : 2022-5003734 / 002-2 (Page 6 of 9)

Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
CONTACT : Khun Tiwa Hanprasankit
ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณลานจอดรถหน้าอาคารผู้โดยสาร **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Analytical Value (avg-24 hr, µg/m³)							Surveillant value* (µg/m³)	Standard** (µg/m³)
	April 21, 2022	April 22, 2022	April 23, 2022	April 24, 2022	April 25, 2022	April 26, 2022	April 27, 2022		
VOCs									
1. Vinyl Chloride	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	20	-
2. 1,3-Butadiene (Butadiene)	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	5.3	-
3. Acetaldehyde	7.83	15.73	6.71	6.42	6.39	8.04	32.95	860	-
4. Bromomethane	<0.19	1.24	<0.19	<0.19	<0.19	<0.19	3.73	190	-
5. Acrolein	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	0.55	-
6. Carbondisulfide	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	-	100
7. Dichloromethane	1.23	1.58	1.25	0.69	0.69	0.69	1.05	210	-
8. Chloroform	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	<0.24	57	-
9. Carbon Tetrachloride	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	150	-
10. Benzene	0.64	0.77	0.38	0.51	0.51	0.38	1.41	7.6	-
11. 1,2-dichloroethane (EDC)	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	48	-
12. Trichloroethylene	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	130	-
13. 1,2-dichloropropane	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	82	-
14. 1,4-Dioxane	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	860	-
15. Tetrachloroethylene	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	400	-
16. 1,2-dibromoethane	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	370	-
17. 1,1,2,2-tetrachloroethane	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	83	-
18. 1,4- dichlorobenzene	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1,100	-
19. Benzyl Chloride	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	12	-
20. Acrylonitrile	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	10	-

Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Remark: - Sampling and analytical technique based on EPA TO-15 by Canister and GC-MS.
Sources: * Notification of Pollution Control Department, subjected 'The surveillant values of volatile organic compounds (VOCs) in ambient air for 24 hours period', dated December 18, B.E. 2551 (2008), published in the Royal Government Gazette Vol. 126, Special Part 13D, dated January 27, B.E. 2552 (2009).
 * Notification of the National Environment Board, subjected 'The standard values of Carbondisulfide in ambient air', dated August 21, B.E. 2560 (2017), published in the Royal Government Gazette Vol. 134, Special Part 230E, dated September 20, B.E. 2560 (2017).

Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2022-5003734 / 002-2 (Page 7 of 9)

Issued date : May 27, 2022

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Analysis Report

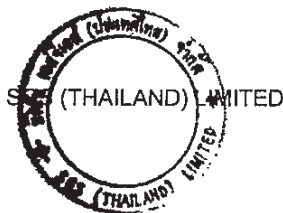
SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณลานจอดรถหน้าอาคารผู้โดยสาร **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

TIME	April 21, 2022		April 22, 2022		April 23, 2022		April 24, 2022		April 25, 2022		April 26, 2022		April 27, 2022	
	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)
00:00-01:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	ENE	1.3
01:00-02:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	NE	0.9
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	E	0.9	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
09:00-10:00	ENE	1.8	ESE	1.3	E	1.3	ESE	1.3	ENE	1.3	SE	0.9	ENE	0.9
10:00-11:00	ENE	1.8	NE	2.2	NE	2.2	ENE	1.3	SE	1.8	SE	1.8	NE	1.3
11:00-12:00	SE	1.8	NE	2.2	SE	2.2	NE	1.8	ENE	2.2	ESE	1.3	-	CALM
12:00-13:00	SE	2.2	NE	2.7	ENE	2.2	NE	2.2	NE	2.2	NE	1.8	-	CALM
13:00-14:00	ENE	2.2	NE	2.7	ENE	2.2	ENE	2.2	NE	2.7	S	0.9	-	CALM
14:00-15:00	NE	2.2	NNE	1.3	ENE	2.2	SE	1.8	NE	1.8	SSW	0.9	-	CALM
15:00-16:00	ENE	1.3	-	CALM	ENE	2.2	NNE	0.9	NE	1.3	S	2.7	-	CALM
16:00-17:00	-	CALM	-	CALM	ENE	1.3	-	CALM	-	CALM	-	CALM	-	CALM
17:00-18:00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
18:00-19:00	ENE	0.9	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	NE	0.9
19:00-20:00	NE	1.3	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	NE	0.9
20:00-21:00	ENE	0.9	NE	0.9	-	CALM	ENE	1.3	-	CALM	-	CALM	NE	0.9
21:00-22:00	ENE	0.9	NE	1.8	-	CALM	NE	0.9	-	CALM	-	CALM	NE	0.9
22:00-23:00	-	CALM	-	CALM	-	CALM	-	CALM	NE	1.3	-	CALM	-	CALM
23:00-00:00	-	CALM	-	CALM	NE	0.9	-	CALM	-	CALM	-	CALM	-	CALM

Measurement Method : - Wind speed and direction recording meter

Technical Manager

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Report No. : 2022-5003734 / 002-2 (Page 8 of 9)

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณลานจอดรถหน้าอาคารผู้โดยสาร **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

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	0.60	0.60	-	-	-
NE	4.76	4.76	5.36	-	-
ENE	2.38	4.76	4.17	-	-
E	0.60	0.60	-	-	-
ESE	-	1.79	-	-	-
SE	0.60	2.38	1.19	-	-
SSE	-	-	-	-	-
S	0.60	-	0.60	-	-
SSW	0.60	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	-	-	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	63.69				

[Redacted Signature]

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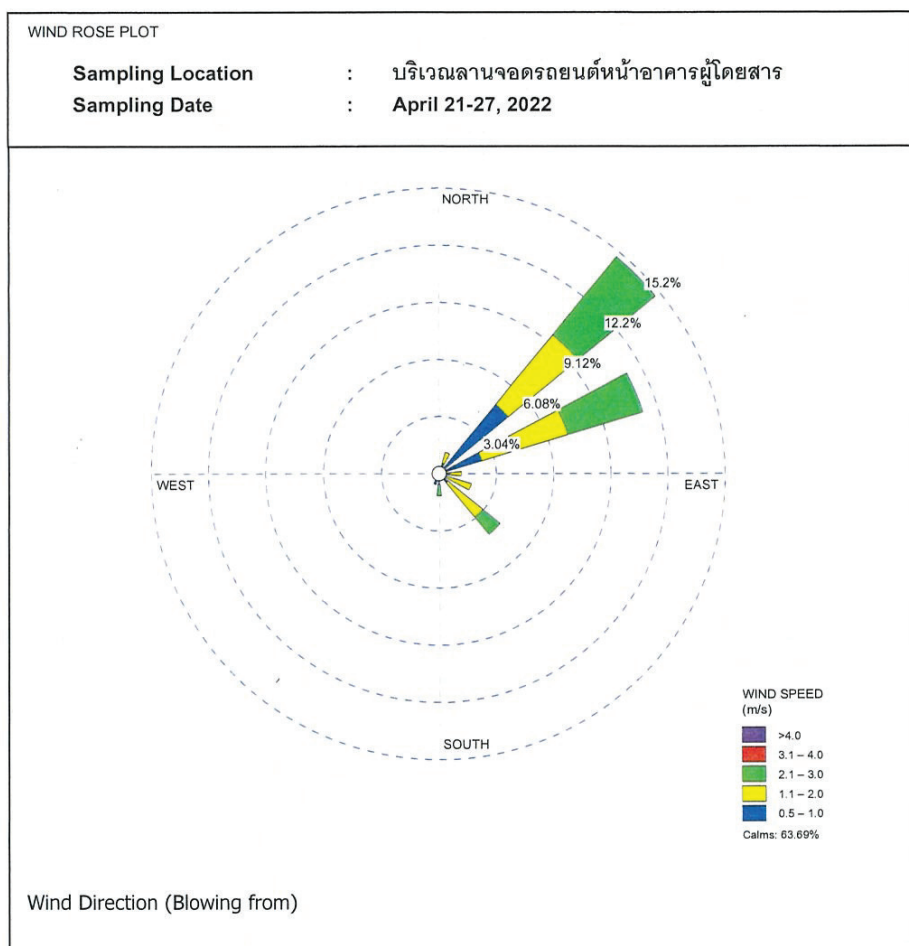
Report No. : 2022-5003734 / 002-2 (Page 9 of 9)

Issued date : May 27, 2022

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Analysis Report

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LABORATORY NAME : SGS (Thailand) Limited



Technical Manager

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Report No. : 2022-5003734 / 002-3 (Page 1 of 5)

Issued date : May 27, 2022

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : April 21-27, 2022
SAMPLING LOCATION : บริเวณบ้านไม้ขาว **SAMPLING BY** : Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	TSP (mg/m ³)
บริเวณบ้านไม้ขาว	April 21, 2022	0.052
	April 22, 2022	0.063
	April 23, 2022	0.064
	April 24, 2022	0.065
	April 25, 2022	0.060
	April 26, 2022	0.063
	April 27, 2022	0.062
Standard ^{1/}		0.33

Remark : - Sampling and analytical technique for TSP based on High Volume Air Sampler / Gravimetric Method.

Source : ^{1/} Notification of the National Environment Board No.24, B.E.2547 (2004), dated August 9, B.E.2547 (2004).

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณบ้านไม้ขาว **SAMPLING BY :** Kittikhun Thaseepheth
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	PM-10 (mg/m ³)
บริเวณบ้านไม้ขาว	April 21, 2022	0.038
	April 22, 2022	0.035
	April 23, 2022	0.037
	April 24, 2022	0.038
	April 25, 2022	0.033
	April 26, 2022	0.033
	April 27, 2022	0.035
Standard ^{1/}		0.12

Remark : - Sampling and analytical technique for PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.

Source : ^{1/} Notification of the National Environment Board No.24, B.E.2547 (2004), dated August 9, B.E.2547 (2004).

Technical Manager

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Analysis Report

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SAMPLING LOCATION : บริเวณบ้านไม้ขาว **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

TIME	April 21, 2022		April 22, 2022		April 23, 2022		April 24, 2022		April 25, 2022		April 26, 2022		April 27, 2022	
	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)
00.00-01.00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	N	2.2
01.00-02.00	-	CALM	-	CALM	-	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	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
09.00-10.00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
10.00-11.00	ESE	0.9	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
11.00-12.00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	WNW	0.9
12.00-13.00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	WNW	1.8
13.00-14.00	-	CALM	ESE	0.9	ESE	0.9	-	CALM	-	CALM	-	CALM	WNW	1.8
14.00-15.00	-	CALM	SE	0.9	-	CALM	-	CALM	-	CALM	SW	2.7	NW	1.8
15.00-16.00	-	CALM	NNW	1.3	-	CALM	WSW	1.3	-	CALM	SSW	2.2	N	1.8
16.00-17.00	WSW	1.8	WNW	1.3	-	CALM	SW	2.2	N	0.9	WSW	2.2	NNW	1.8
17.00-18.00	SW	1.3	N	1.8	SW	1.3	W	1.8	WSW	2.2	WNW	1.8	N	1.8
18.00-19.00	-	CALM	NNW	1.3	SW	1.8	W	1.3	SW	1.8	W	1.3	NNW	1.3
19.00-20.00	-	CALM	NNW	1.3	SW	1.3	W	0.9	WSW	1.3	NW	0.9	NNW	1.3
20.00-21.00	-	CALM	NNW	0.9	-	CALM	-	CALM	-	CALM	WNW	0.9	-	CALM
21.00-22.00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	WNW	0.9	-	CALM
22.00-23.00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	WNW	0.9	-	CALM
23.00-00.00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	W	0.9	-	CALM

Measurement Method : - Wind speed and direction recording meter

Technical Manager

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Report No. : 2022-5003734 / 002-3 (Page 4 of 5)

Issued date : May 27, 2022

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : April 21-27, 2022
SAMPLING LOCATION : บริเวณบ้านไม้ขาว **SAMPLING BY** : Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

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	1.79	0.60	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	-	-	-	-
ESE	1.79	-	-	-	-
SE	0.60	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	0.60	-	-
SW	-	2.98	1.19	-	-
WSW	-	1.79	1.19	-	-
W	1.19	1.79	-	-	-
WNW	2.38	2.38	-	-	-
NW	0.60	0.60	-	-	-
NNW	0.60	3.57	-	-	-
CALM	73.81				

[Redacted Signature]

Technical Manager



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Report No. : 2022-5003734 / 002-3 (Page 5 of 5)

Issued date : May 27, 2022

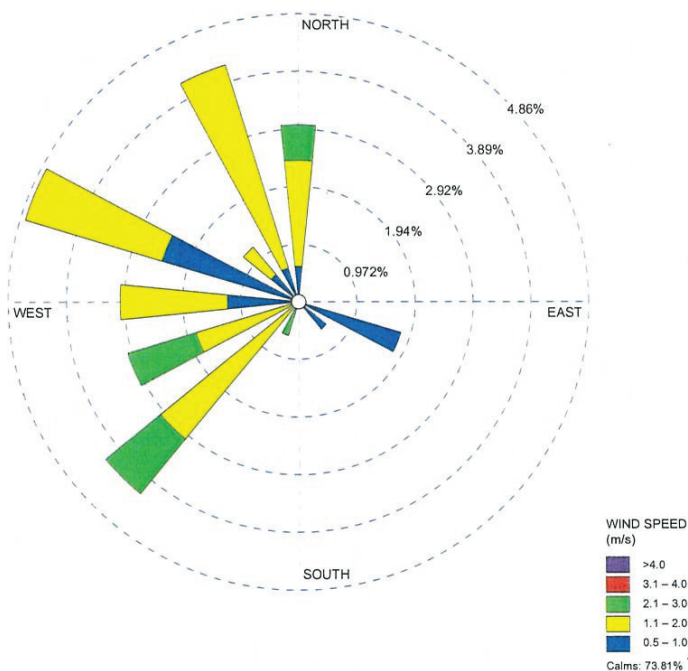
CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
CONTACT : Khun Tiwa Hanprasankit
ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณบ้านไม้ขาว **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

WIND ROSE PLOT

Sampling Location : บริเวณบ้านไม้ขาว
Sampling Date : April 21-27, 2022



Wind Direction (Blowing from)

Technical Manager

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Report No. : 2022-5003734 / 002-4 (Page 1 of 5)

Issued date : May 27, 2022

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Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณบ้านหมากปอก **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	TSP (mg/m ³)
บริเวณบ้านหมากปอก	April 21, 2022	0.064
	April 22, 2022	0.058
	April 23, 2022	0.056
	April 24, 2022	0.056
	April 25, 2022	0.056
	April 26, 2022	0.058
	April 27, 2022	0.061
Standard ^{1/}		0.33

Remark : - Sampling and analytical technique for TSP based on High Volume Air Sampler / Gravimetric Method.
Source : ^{1/} Notification of the National Environment Board No.24, B.E.2547 (2004), dated August 9, B.E.2547 (2004).



Technical Manager

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Report No. : 2022-5003734 / 002-4 (Page 2 of 5)

Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : April 21-27, 2022
SAMPLING LOCATION : บริเวณบ้านหมากปรง **SAMPLING BY** : Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	PM-10 (mg/m ³)
บริเวณบ้านหมากปรง	April 21, 2022	0.042
	April 22, 2022	0.041
	April 23, 2022	0.037
	April 24, 2022	0.036
	April 25, 2022	0.035
	April 26, 2022	0.036
	April 27, 2022	0.038
Standard ^{1/}		0.12

Remark : - Sampling and analytical technique for PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.
Source : ^{1/} Notification of the National Environment Board No.24, B.E.2547 (2004), dated August 9, B.E.2547 (2004).



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Report No. : 2022-5003734 / 002-4 (Page 3 of 5)

Issued date : May 27, 2022

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณบ้านหมากปอก **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

TIME	April 21, 2022		April 22, 2022		April 23, 2022		April 24, 2022		April 25, 2022		April 26, 2022		April 27, 2022	
	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)
00.00-01.00	-	CALM	-	CALM	-	CALM	-	CALM	ESE	2.2	SW	1.8	NW	2.7
01.00-02.00	-	CALM	-	CALM	-	CALM	-	CALM	ENE	2.2	SW	2.7	NW	2.7
02.00-03.00	-	CALM	-	CALM	-	CALM	-	CALM	ESE	1.3	WNW	2.7	NW	3.1
03.00-04.00	-	CALM	-	CALM	-	CALM	-	CALM	W	2.2	WNW	2.7	NW	2.7
04.00-05.00	-	CALM	-	CALM	-	CALM	-	CALM	WNW	2.2	WNW	2.7	NW	1.8
05.00-06.00	-	CALM	-	CALM	-	CALM	-	CALM	WNW	1.3	WNW	1.8	NW	2.7
06.00-07.00	-	CALM	-	CALM	-	CALM	-	CALM	NW	0.9	NW	0.9	NW	1.8
07.00-08.00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	NW	0.9	-	CALM
08.00-09.00	ENE	1.8	-	CALM	ENE	1.3	-	CALM	WNW	0.9	NW	0.9	-	CALM
09.00-10.00	E	1.8	E	1.8	ENE	2.2	ESE	1.3	-	CALM	NW	1.3	-	CALM
10.00-11.00	ESE	2.7	ENE	2.2	E	2.7	ENE	1.8	-	CALM	NW	2.7	-	CALM
11.00-12.00	E	2.7	E	2.2	E	2.2	ENE	1.8	-	CALM	ESE	1.3	WNW	0.9
12.00-13.00	ENE	2.7	ESE	2.7	E	2.7	ESE	2.2	-	CALM	-	CALM	WNW	1.8
13.00-14.00	ENE	3.1	SE	2.2	SE	2.2	SE	2.7	-	CALM	-	CALM	WNW	1.8
14.00-15.00	ENE	2.2	ESE	2.2	ENE	2.7	SE	2.2	-	CALM	-	CALM	NW	1.8
15.00-16.00	ENE	2.2	ESE	1.8	E	2.2	ESE	1.8	-	CALM	-	CALM	N	1.8
16.00-17.00	NW	1.8	NW	2.2	ESE	1.8	WNW	3.1	-	CALM	-	CALM	NNW	1.8
17.00-18.00	NW	1.3	NW	3.1	SE	1.3	WNW	3.1	-	CALM	-	CALM	N	1.8
18.00-19.00	SE	1.8	NW	3.1	WNW	2.7	WNW	2.7	-	CALM	-	CALM	NNW	1.3
19.00-20.00	-	CALM	NW	2.2	W	1.8	WNW	1.8	E	1.3	ENE	0.9	NNW	1.3
20.00-21.00	-	CALM	NW	0.9	NW	1.3	E	1.3	ESE	2.2	ENE	1.8	-	CALM
21.00-22.00	-	CALM	ENE	1.3	-	CALM	-	CALM	ESE	1.8	E	1.8	-	CALM
22.00-23.00	-	CALM	-	CALM	NNW	0.9	E	2.2	E	2.2	NW	1.8	-	CALM
23.00-00.00	-	CALM	-	CALM	WNW	1.3	ESE	2.2	ENE	1.8	NW	2.2	-	CALM

Measurement Method : - Wind speed and direction recording meter



Technical Manager



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Report No. : 2022-5003734 / 002-4 (Page 4 of 5)

Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณบ้านหมากปรง **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

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	-	1.19	-	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	1.19	4.17	4.17	0.60	-
E	-	2.98	4.76	-	-
ESE	-	4.17	4.17	-	-
SE	-	1.19	2.38	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	0.60	0.60	-	-
WSW	-	-	-	-	-
W	-	0.60	0.60	-	-
WNW	1.19	3.57	3.57	1.19	-
NW	2.98	4.76	4.76	1.79	-
NNW	0.60	1.79	-	-	-
CALM	40.48				

Technical Manager



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Report No. : 2022-5003734 / 002-4 (Page 5 of 5)

Issued date : May 27, 2022

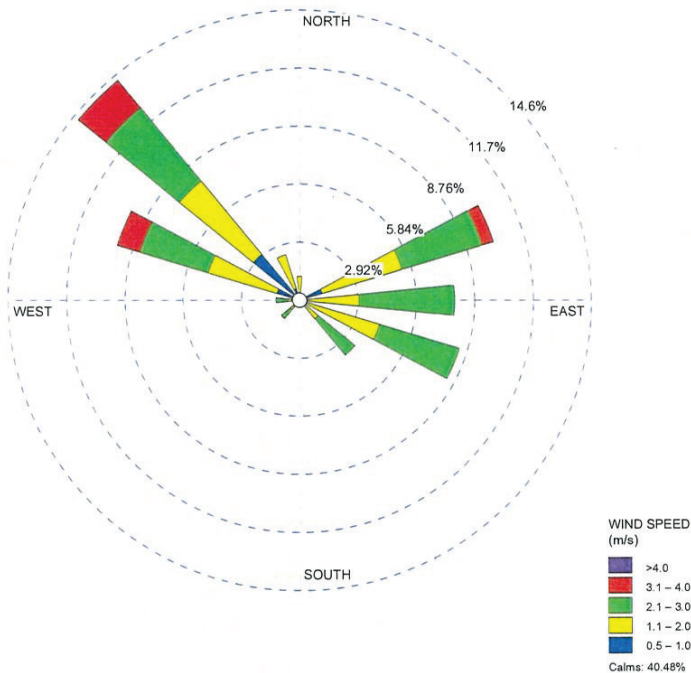
CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
CONTACT : Khun Tiwa Hanprasankit
ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : April 21-27, 2022
SAMPLING LOCATION : บริเวณบ้านหมากปรก **SAMPLING BY** : Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

WIND ROSE PLOT

Sampling Location : บริเวณบ้านหมากปรก
Sampling Date : April 21-27, 2022



Wind Direction (Blowing from)

Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2022-5003734 / 002-5 (Page 1 of 5)

Issued date : May 27, 2022

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : April 21-27, 2022
SAMPLING LOCATION : บริเวณพื้นที่ก่อสร้างทางข้ามขนานสาย P **SAMPLING BY** : Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	TSP (mg/m ³)
บริเวณพื้นที่ก่อสร้างทางข้ามขนานสาย P	April 21, 2022	0.204
	April 22, 2022	0.187
	April 23, 2022	0.190
	April 24, 2022	0.144
	April 25, 2022	0.170
	April 26, 2022	0.147
	April 27, 2022	0.129
Standard ^{1/}		0.33

Remark : - Sampling and analytical technique for TSP based on High Volume Air Sampler / Gravimetric Method.
Source : ^{1/} Notification of the National Environment Board No.24, B.E.2547 (2004), dated August 9, B.E.2547 (2004).

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Technical Manager



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Report No. : 2022-5003734 / 002-5 (Page 2 of 5)

Issued date : May 27, 2022

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณพื้นที่ก่อสร้างทางข้ามขนานสาย P **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	PM-10 (mg/m ³)
บริเวณพื้นที่ก่อสร้างทางข้ามขนานสาย P	April 21, 2022	0.063
	April 22, 2022	0.045
	April 23, 2022	0.048
	April 24, 2022	0.045
	April 25, 2022	0.049
	April 26, 2022	0.051
	April 27, 2022	0.041
Standard ^{1/}		0.12

Remark : - Sampling and analytical technique for PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.
Source : ^{1/} Notification of the National Environment Board No.24, B.E.2547 (2004), dated August 9, B.E.2547 (2004).

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Report No. : 2022-5003734 / 002-5 (Page 3 of 5)

Issued date : May 27, 2022

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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณพื้นที่ก่อสร้างทางข้ามน่านสาย P **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

TIME	April 21, 2022		April 22, 2022		April 23, 2022		April 24, 2022		April 25, 2022		April 26, 2022		April 27, 2022	
	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)
00.00-01.00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	NNW	1.3
01.00-02.00	NE	0.9	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
02.00-03.00	E	0.9	-	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	NNE	2.2	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
06.00-07.00	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM	-	CALM
07.00-08.00	-	CALM	-	CALM	E	1.8	-	CALM	ENE	1.3	-	CALM	ENE	1.3
08.00-09.00	E	1.8	E	2.2	E	2.7	ESE	1.3	E	2.2	ESE	1.3	ENE	0.9
09.00-10.00	E	3.1	E	2.7	E	3.6	SE	1.8	E	2.7	ESE	2.2	NE	2.2
10.00-11.00	E	3.6	E	2.7	E	3.6	ESE	2.2	E	3.1	E	2.2	E	1.8
11.00-12.00	E	3.6	E	3.1	ESE	3.1	E	3.1	E	3.1	ESE	2.7	WNW	3.1
12.00-13.00	E	3.1	E	3.1	E	3.6	E	2.7	ESE	3.1	ESE	1.8	WNW	3.6
13.00-14.00	ENE	3.1	E	2.7	E	3.6	ESE	2.2	E	2.7	WNW	1.8	NW	4.0
14.00-15.00	E	2.2	NW	2.2	E	3.1	E	2.7	E	2.7	W	1.3	NW	4.0
15.00-16.00	WNW	3.1	NW	4.0	E	1.8	WNW	4.5	E	1.3	WNW	3.6	NW	4.5
16.00-17.00	WNW	1.8	NW	4.5	WNW	1.8	WNW	4.5	WNW	2.7	WNW	4.5	NW	4.5
17.00-18.00	ESE	2.7	NW	4.5	WNW	2.2	WNW	3.1	WNW	2.2	WNW	4.5	NW	4.0
18.00-19.00	SSE	0.9	NW	4.0	W	1.3	WNW	2.7	WNW	0.9	NW	3.6	NW	3.6
19.00-20.00	NE	1.3	NW	2.2	NW	2.2	ENE	2.2	WNW	0.9	NW	3.6	NW	3.6
20.00-21.00	-	CALM	NE	2.7	NW	1.8	-	CALM	NE	0.9	NW	3.6	NW	1.3
21.00-22.00	-	CALM	-	CALM	NNW	1.3	-	CALM	WNW	1.3	NW	3.6	N	1.8
22.00-23.00	-	CALM	-	CALM	NNW	1.8	-	CALM	-	CALM	NW	3.6	-	CALM
23.00-00.00	-	CALM	-	CALM	NW	0.9	-	CALM	-	CALM	NNW	5.8	NW	0.9

Measurement Method : - Wind speed and direction recording meter

(Thapana Pongmanee)
 Technical Manager

TY/MM/STT/STT



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Report No. : 2022-5003734 / 002-5 (Page 4 of 5)

Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
CONTACT : Khun Tiwa Hanprasankit
ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** April 21-27, 2022
SAMPLING LOCATION : บริเวณพื้นที่ก่อสร้างทางข้ามขนานสาย P **SAMPLING BY :** Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited

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	1.19	0.60	1.19	-	-
ENE	0.60	1.19	0.60	0.60	-
E	0.60	2.98	7.74	8.33	-
ESE	-	1.79	2.98	1.19	-
SE	-	0.60	-	-	-
SSE	0.60	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	-	1.19	-	-	-
WNW	1.19	2.38	2.38	2.98	2.38
NW	1.19	1.19	1.79	7.14	2.38
NNW	-	1.79	-	-	0.60
CALM	37.50				


 (Thapan Pongmanee)
 Technical Manager



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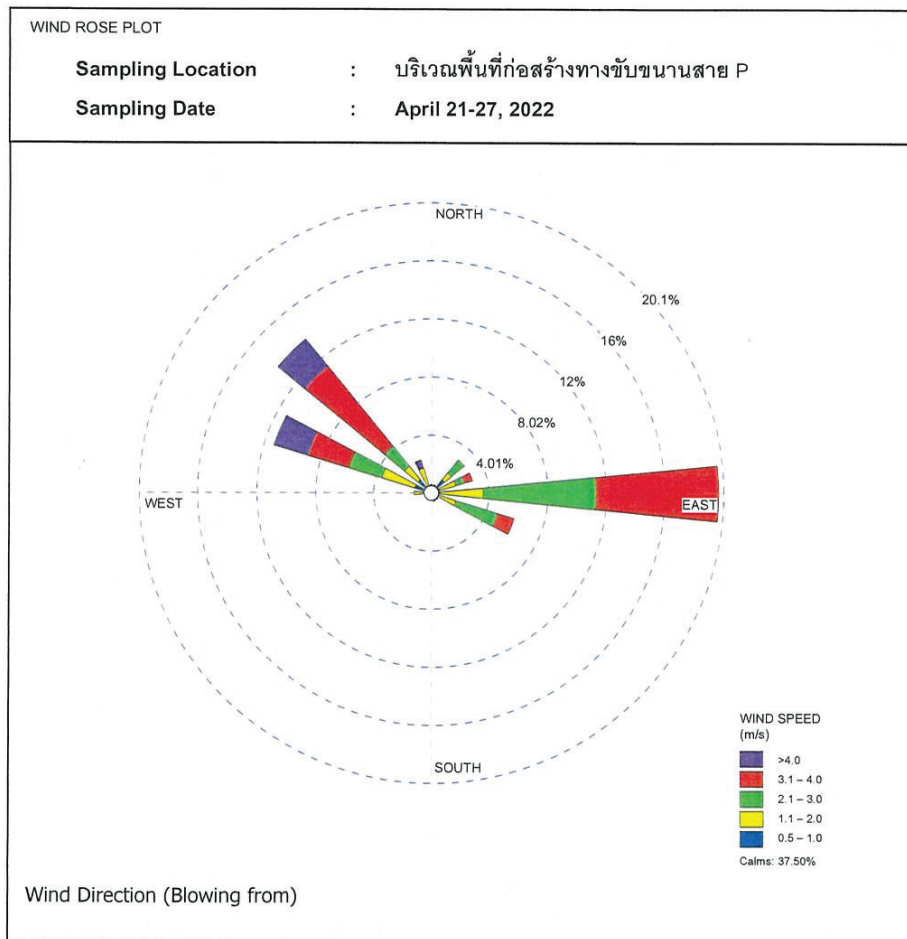
Report No. : 2022-5003734 / 002-5 (Page 5 of 5)

Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
CONTACT : Khun Tiwa Hanprasankit
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Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE** : April 21-27, 2022
SAMPLING LOCATION : บริเวณพื้นที่ก่อสร้างทางข้ามขนานสาย P **SAMPLING BY** : Kittikhun Thaseephet
LABORATORY NAME : SGS (Thailand) Limited



Technical Manager

SGS (THAILAND) LIMITED

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ผลการตรวจวัดระดับเสียง

Report No. : 2022-5003734 / 003-1 (Page 1 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED

CONTACT : Khun Tiwa Hanprasankit

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Analysis Report

SAMPLE DESIGNATED AS : Noise Level

MEASUREMENT DATE : April 21-27, 2022

MEASUREMENT LOCATION : เขต Airside บริเวณคลังสินค้า

MEASUREMENT BY : Kittikhun Thaseephet

ของบริษัท คิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)

CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745

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 Research plc, Serial No. G080136

Time	Noise Level [dB(A)]												Standard*
	April 21, 2022			April 22, 2022			April 23, 2022			April 24, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00 - 01:00	68.1	92.8	44.8	69.8	91.1	52.1	68.4	93.6	50.2	67.8	95.0	51.9	70
01:00 - 02:00	55.7	81.9	44.7	52.7	66.0	52.0	52.3	70.4	50.0	53.9	74.5	51.8	
02:00 - 03:00	47.2	64.9	44.5	52.6	57.9	52.2	50.8	59.2	50.1	52.3	63.0	51.7	
03:00 - 04:00	47.5	68.9	44.3	52.8	61.6	52.1	51.0	62.0	50.1	52.5	63.8	51.8	
04:00 - 05:00	47.2	64.2	44.0	52.9	61.5	52.1	51.5	64.8	50.4	52.9	62.4	52.0	
05:00 - 06:00	53.8	73.2	45.8	55.4	70.2	52.7	55.0	68.7	51.1	55.1	67.0	52.1	
06:00 - 07:00	64.7	84.8	51.9	65.9	86.1	54.0	66.3	86.6	53.0	63.2	83.7	55.7	
07:00 - 08:00	63.6	86.1	48.3	69.2	87.4	56.1	69.5	95.7	54.5	66.5	86.1	54.7	
08:00 - 09:00	70.1	90.8	52.5	69.8	91.2	53.7	69.5	92.1	53.6	72.6	90.9	56.2	
09:00 - 10:00	72.6	95.1	54.0	70.3	91.9	53.9	70.9	87.7	55.0	71.0	90.1	54.0	
10:00 - 11:00	72.0	90.9	54.1	71.0	90.9	54.5	71.0	89.2	54.5	71.5	90.2	54.2	
11:00 - 12:00	70.4	90.6	54.1	71.1	89.4	54.1	69.8	91.6	54.0	72.5	96.4	53.8	
12:00 - 13:00	72.8	91.4	55.1	73.9	97.7	53.5	72.8	90.7	54.5	74.0	97.9	54.0	
13:00 - 14:00	69.8	90.6	53.1	70.7	90.9	53.6	68.6	88.5	52.8	70.2	89.5	54.0	
14:00 - 15:00	69.5	91.4	55.2	70.0	94.7	52.7	69.0	91.5	53.2	68.7	88.8	55.0	
15:00 - 16:00	70.6	91.4	55.5	71.2	91.4	57.0	66.0	90.7	52.9	70.2	88.9	56.6	
16:00 - 17:00	74.7	93.0	57.1	71.8	92.6	57.3	72.3	90.3	55.1	71.4	90.9	57.3	
17:00 - 18:00	72.1	91.1	54.2	73.8	92.0	54.9	72.2	90.8	56.6	72.8	90.9	56.6	
18:00 - 19:00	70.7	87.7	56.0	72.0	93.5	56.6	71.2	93.6	55.0	72.7	93.7	58.6	
19:00 - 20:00	76.3	93.1	55.1	75.8	93.7	53.4	74.3	92.0	53.6	76.9	95.4	57.5	
20:00 - 21:00	73.1	89.8	53.7	70.9	90.6	51.9	71.3	89.5	56.2	76.3	96.6	57.1	
21:00 - 22:00	70.5	89.1	55.3	69.2	88.7	53.0	72.7	101.4	55.1	74.5	92.9	54.4	
22:00 - 23:00	70.6	92.4	52.4	66.7	87.8	50.2	71.0	92.7	51.6	68.2	91.8	52.4	
23:00 - 00:00	62.6	89.8	52.2	66.8	89.5	50.2	69.1	87.6	51.2	53.9	70.7	52.2	
Leq 24 hr	70.4	-	-	70.2	-	-	69.8	-	-	71.1	-	-	70
Ldn	72.9	-	-	72.9	-	-	73.4	-	-	72.8	-	-	-
Lmax	-	95.1	-	-	97.7	-	-	101.4	-	-	97.9	-	115

Source : * The Notification of Environmental Board No.15, B.E. 2540 (1997)

TY/MM/STT/STT



Technical Manager

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Report No. : 2022-5003734 / 003-1 (Page 2 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
CONTACT : Khun Tiwa Hanprasankit
ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : เขต Airside บริเวณคลังสินค้า **MEASUREMENT BY :** Kittikhun Thaseephet
 ของบริษัท คิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G080136

Time	Noise Level [dB(A)]									Standard*
	April 25, 2022			April 26, 2022			April 27, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00 - 01:00	70.4	94.3	52.0	68.8	92.5	51.4	68.5	92.9	51.5	
01:00 - 02:00	52.8	68.7	52.1	51.9	57.8	51.4	51.9	57.8	51.3	
02:00 - 03:00	53.0	63.5	52.1	53.4	72.7	51.2	52.6	67.2	51.5	
03:00 - 04:00	52.7	58.8	52.2	52.1	65.3	51.3	51.7	60.5	51.2	
04:00 - 05:00	53.1	61.8	52.2	53.8	77.3	51.4	52.4	67.1	51.1	
05:00 - 06:00	55.6	69.2	52.7	56.1	68.5	51.9	55.6	72.5	51.7	
06:00 - 07:00	66.7	84.3	54.0	64.9	86.4	53.2	61.8	86.6	53.7	
07:00 - 08:00	69.3	85.9	60.2	67.1	86.6	54.9	68.9	88.3	52.8	
08:00 - 09:00	72.9	92.9	55.5	71.5	97.9	53.2	71.5	92.7	54.8	
09:00 - 10:00	70.2	88.7	54.2	69.7	86.4	54.3	70.7	89.3	54.8	
10:00 - 11:00	70.8	89.4	53.3	69.2	88.2	53.5	72.0	90.3	54.0	
11:00 - 12:00	70.8	88.4	52.3	70.5	89.8	53.4	73.4	92.9	55.3	
12:00 - 13:00	72.2	90.4	53.9	72.6	90.5	57.5	74.9	94.7	56.8	
13:00 - 14:00	68.8	90.9	53.1	71.1	91.5	53.5	70.5	91.2	54.8	
14:00 - 15:00	66.4	89.0	52.2	69.8	89.9	57.1	67.5	88.1	54.3	
15:00 - 16:00	65.5	86.1	53.7	70.1	90.1	56.6	68.6	88.8	56.1	
16:00 - 17:00	69.5	90.7	53.6	73.6	91.6	57.9	72.1	90.4	53.5	
17:00 - 18:00	70.5	91.9	54.4	72.9	91.9	55.4	72.8	90.4	56.3	
18:00 - 19:00	73.4	93.2	55.9	72.1	91.8	54.2	72.3	93.3	55.2	
19:00 - 20:00	73.7	93.4	54.1	75.3	97.2	55.3	72.9	93.8	53.7	
20:00 - 21:00	71.7	88.8	53.1	73.9	91.2	55.2	70.2	90.6	53.3	
21:00 - 22:00	71.6	94.0	54.5	68.7	89.9	54.6	69.6	89.7	52.7	
22:00 - 23:00	70.3	91.2	51.6	68.0	91.6	52.5	65.7	89.9	52.0	
23:00 - 00:00	68.2	89.7	51.4	68.3	89.8	52.1	67.8	88.2	51.8	
Leq 24 hr	69.7	-	-	70.1	-	-	69.9	-	-	70
Ldn	73.4	-	-	72.9	-	-	72.3	-	-	-
Lmax	-	94.3	-	-	97.9	-	-	94.7	-	115

Source : ^{1/} Notification of the National Environment Board No.15, B.E. 2540 (1997).

SGS (THAILAND) LIMITED

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Report No. : 2022-5003734 / 003-1 (Page 3 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : เขต Airside บริเวณคลังสินค้า **MEASUREMENT BY :** Kittikhun Thaseephet
 ของบริษัท ดิงพาวเวอร์ จำกัด (บริเวณสถานีดับเพลิงและกู้ภัยเดิม)
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G080136

Date	Time	Noise Level [dB(A)]			NEF	No. of Flight (Event)				
		Leq 24 hr	Lmax	Ldn		Nd		Nn		n
						ARR	DEP	ARR	DEP	
21/04/2022	00:00-00:00	70.4	95.1	66.8	31.8	45	63	4	3	115
22/04/2022	00:00-00:00	70.2	97.7	67.4	32.4	34	68	3	5	110
23/04/2022	00:00-00:00	69.8	101.4	67.2	32.2	40	67	4	6	117
24/04/2022	00:00-00:00	71.1	97.9	67.3	32.3	43	74	2	4	123
25/04/2022	00:00-00:00	69.7	94.3	66.6	31.6	31	61	5	6	103
26/04/2022	00:00-00:00	70.1	97.9	65.8	30.8	19	60	2	4	85
27/04/2022	00:00-00:00	69.9	94.7	66.2	31.2	13	61	1	7	82

Remark : Nd = จำนวนเหตุการณ์เสียงอากาศยาน ในช่วงเวลา 07.00-22.00 น.
 Nn = จำนวนเหตุการณ์เสียงอากาศยาน ในช่วงเวลา 22.00-07.00 น.
 n = จำนวนเหตุการณ์เสียงอากาศยาน ทั้งหมด
 ARR = เที่ยวบินเข้า (Arrival)
 DEP = เที่ยวบินออก (Departure)

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Technical Manager

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Report No. : 2022-5003734 / 003-2 (Page 1 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : บริเวณลานจอดรถหน้าอาคารผู้โดยสาร **MEASUREMENT BY :** Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G079771

Time	Noise Level [dB(A)]												Standard*
	April 21, 2022			April 22, 2022			April 23, 2022			April 24, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00 - 01:00	55.4	74.0	44.8	56.0	75.1	51.1	55.9	68.7	52.6	59.9	74.4	54.2	
01:00 - 02:00	53.9	80.3	42.6	53.8	71.3	51.7	55.4	63.9	52.6	57.4	83.1	52.9	
02:00 - 03:00	49.3	68.9	42.4	53.1	68.5	51.8	56.4	65.3	53.1	54.1	73.2	51.4	
03:00 - 04:00	50.1	69.0	42.3	53.4	64.8	52.1	55.7	71.6	51.9	53.8	72.5	51.3	
04:00 - 05:00	52.5	68.0	42.8	56.5	74.0	52.9	57.0	65.8	53.6	56.1	72.3	52.0	
05:00 - 06:00	60.7	81.1	52.3	61.2	76.3	56.4	62.3	79.4	55.9	62.2	79.1	55.4	
06:00 - 07:00	63.3	79.0	57.5	63.2	72.3	59.4	63.9	76.9	59.0	63.8	81.2	60.2	
07:00 - 08:00	62.2	82.5	55.7	64.6	83.7	58.8	62.1	80.7	55.3	64.0	77.0	60.6	
08:00 - 09:00	64.4	76.5	60.9	64.5	86.0	61.0	63.7	76.2	60.5	64.0	86.1	60.0	
09:00 - 10:00	63.0	75.9	59.6	63.8	74.2	60.7	63.3	80.0	59.8	63.6	80.0	60.2	
10:00 - 11:00	62.8	74.4	58.9	63.8	70.8	61.1	62.2	69.6	58.6	62.8	73.2	59.6	
11:00 - 12:00	63.5	74.1	60.2	63.8	75.2	60.9	62.4	77.9	58.4	62.5	72.4	59.2	
12:00 - 13:00	62.7	79.3	59.3	63.4	76.2	60.0	62.3	75.6	58.2	61.7	72.4	57.9	
13:00 - 14:00	63.2	74.9	60.0	63.2	72.5	60.2	62.0	68.6	58.9	62.6	75.1	59.1	
14:00 - 15:00	63.6	78.1	59.8	62.9	73.7	59.8	63.4	77.9	59.0	62.4	79.5	57.4	
15:00 - 16:00	62.7	72.9	59.6	62.4	79.7	59.2	61.7	72.7	58.5	61.4	75.1	57.6	
16:00 - 17:00	63.8	79.1	59.8	63.3	72.0	59.6	61.8	74.9	58.0	62.5	81.0	58.7	
17:00 - 18:00	64.3	79.7	60.6	64.3	77.5	61.1	63.0	77.4	59.4	63.2	74.8	60.4	
18:00 - 19:00	61.2	72.8	58.1	63.4	73.0	60.5	61.0	71.7	57.6	62.5	79.1	59.2	
19:00 - 20:00	60.6	72.0	57.5	60.5	75.6	57.3	59.8	72.5	56.2	66.2	82.8	59.5	
20:00 - 21:00	61.1	78.6	57.8	61.7	73.7	57.7	60.4	78.8	56.8	65.4	78.1	61.0	
21:00 - 22:00	61.1	82.2	57.2	60.3	75.5	56.5	62.8	92.2	57.5	63.5	75.4	60.3	
22:00 - 23:00	60.4	74.7	53.5	61.0	80.4	54.6	63.4	82.9	58.4	62.7	80.0	55.1	
23:00 - 00:00	55.7	69.6	51.2	56.7	71.4	52.7	73.7	87.3	54.8	58.8	79.5	53.3	
Leq 24 hr	61.6	-	-	62.0	-	-	63.8	-	-	62.4	-	-	70
Ldn	65.6	-	-	66.1	-	-	71.6	-	-	67.1	-	-	-
Lmax	-	82.5	-	-	86.0	-	-	92.2	-	-	86.1	-	115

Source : * The Notification of Environmental Board No.15, B.E. 2540 (1997)

TY/MM/STT/STT

SGS (THAILAND) LIMITED



(Thipsan Pongthana)
Technical Manager

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Report No. : 2022-5003734 / 003-2 (Page 2 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
CONTACT : Khun Tiwa Hanprasankit
ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : บริเวณลานจอดรถหน้าอาคารผู้โดยสาร **MEASUREMENT BY :** Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G079771

Time	Noise Level [dB(A)]									Standard*
	April 25, 2022			April 26, 2022			April 27, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00 - 01:00	58.3	79.3	52.5	57.9	78.5	53.4	55.0	69.3	49.3	
01:00 - 02:00	55.0	73.2	52.7	55.2	67.2	53.5	51.5	63.0	48.2	
02:00 - 03:00	53.5	69.2	51.5	56.1	76.6	53.6	50.7	66.8	48.3	
03:00 - 04:00	54.0	72.2	51.5	54.9	68.5	53.8	52.3	68.9	49.4	
04:00 - 05:00	56.1	66.7	51.9	57.4	78.5	53.7	55.3	70.8	50.9	
05:00 - 06:00	62.8	79.0	55.6	62.0	80.9	55.7	62.1	80.5	55.2	
06:00 - 07:00	63.5	78.4	59.2	62.7	75.2	58.0	63.5	80.1	57.8	
07:00 - 08:00	63.0	77.5	58.0	62.3	74.9	57.8	61.4	74.5	56.5	
08:00 - 09:00	62.6	75.2	59.0	61.6	72.0	58.3	63.8	82.0	59.6	
09:00 - 10:00	63.8	74.9	60.5	60.3	69.7	56.6	63.9	75.8	60.2	
10:00 - 11:00	62.9	74.2	59.8	62.5	73.4	59.4	63.0	81.8	59.4	
11:00 - 12:00	62.9	75.5	59.7	62.4	71.9	59.5	62.7	71.9	59.7	
12:00 - 13:00	62.7	75.1	59.1	62.3	76.5	58.6	62.6	75.8	58.7	
13:00 - 14:00	63.5	72.7	60.4	63.0	80.9	59.5	63.3	78.0	59.9	
14:00 - 15:00	63.3	76.7	59.9	62.7	76.4	58.4	62.7	74.2	58.8	
15:00 - 16:00	62.2	75.6	58.3	62.0	70.5	58.6	62.3	74.0	58.4	
16:00 - 17:00	63.2	75.0	58.6	63.1	74.5	59.8	63.6	78.4	59.9	
17:00 - 18:00	64.5	80.8	59.9	63.6	77.5	60.0	64.9	83.6	60.5	
18:00 - 19:00	62.3	73.1	58.4	61.3	77.9	57.3	61.3	73.5	57.4	
19:00 - 20:00	59.9	78.1	56.4	60.2	74.8	56.2	59.9	77.7	56.3	
20:00 - 21:00	58.6	74.5	54.4	59.1	74.3	55.1	58.9	70.3	55.2	
21:00 - 22:00	70.3	83.4	60.9	59.9	72.7	56.6	60.3	73.7	56.9	
22:00 - 23:00	63.4	79.7	56.3	59.0	71.7	51.3	60.7	81.9	53.0	
23:00 - 00:00	58.9	76.4	54.0	55.7	70.3	50.7	54.7	76.1	49.0	
Leq 24 hr	62.8	-	-	61.0	-	-	61.5	-	-	70
Ldn	67.2	-	-	65.8	-	-	65.8	-	-	-
Lmax	-	83.4	-	-	80.9	-	-	83.6	-	115

Source : Notification of the National Environment Board No.15, B.E. 2540 (1997).



Technical Manager

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Report No. : 2022-5003734 / 003-2 (Page 3 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE** : April 21-27, 2022
MEASUREMENT LOCATION : บริเวณลานจอดรถหน้าอาคารผู้โดยสาร **MEASUREMENT BY** : Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G079771

Date	Time	Noise Level [dB(A)]			NEF	No. of Flight (Event)				
		Leq 24 hr	Lmax	Ldn		Nd		Nn		n
						ARR	DEP	ARR	DEP	
21/04/2022	00:00-00:00	61.6	82.5	46.5	11.5	4	7	2	1	14
22/04/2022	00:00-00:00	62.0	86.0	47.0	12.0	3	7	1	2	13
23/04/2022	00:00-00:00	63.8	92.2	48.1	13.1	4	7	1	1	13
24/04/2022	00:00-00:00	62.4	86.1	50.8	15.8	2	8	3	0	13
25/04/2022	00:00-00:00	62.8	83.4	49.0	14.0	5	5	2	2	14
26/04/2022	00:00-00:00	61.0	80.9	47.7	12.7	3	5	1	2	11
27/04/2022	00:00-00:00	61.5	83.6	47.2	12.2	3	6	1	2	12

Remark : N_d = จำนวนเหตุการณ์เสียงอากาศยาน ในช่วงเวลา 07.00-22.00 น.
 N_n = จำนวนเหตุการณ์เสียงอากาศยาน ในช่วงเวลา 22.00-07.00 น.
 n = จำนวนเหตุการณ์เสียงอากาศยานทั้งหมด
 ARR = เที่ยวบินขาเข้า (Arrival)
 DEP = เที่ยวบินขาออก (Departure)

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(Thespan Tommana)
 Technical Manager

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Report No. : 2022-5003734 / 003-3 (Page 1 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : บริเวณบ้านไม้ขาว **MEASUREMENT BY :** Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G300763

Noise Level [dB(A)]													Standard*
Time	April 21, 2022			April 22, 2022			April 23, 2022			April 24, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00 - 01:00	49.8	72.1	44.5	49.9	71.6	46.1	52.3	74.5	47.4	50.8	76.4	48.6	115
01:00 - 02:00	44.9	54.9	43.9	46.9	55.9	46.0	48.4	55.9	47.0	49.5	63.3	48.6	
02:00 - 03:00	44.9	56.6	43.8	46.5	55.1	45.7	50.6	64.1	47.8	48.6	61.1	47.7	
03:00 - 04:00	48.0	73.4	43.9	48.1	66.7	46.2	48.9	62.2	46.9	49.2	70.2	47.5	
04:00 - 05:00	47.2	63.7	44.4	48.7	60.1	46.3	50.4	65.8	47.6	49.1	59.2	47.7	
05:00 - 06:00	53.6	69.3	45.0	56.3	70.3	46.7	55.0	82.1	48.5	53.6	64.6	48.1	
06:00 - 07:00	53.3	67.9	47.2	54.9	74.6	49.2	55.9	73.3	49.9	53.0	66.3	49.1	
07:00 - 08:00	52.8	70.7	46.7	54.2	71.4	48.1	53.8	69.8	49.5	52.7	69.4	48.4	
08:00 - 09:00	55.2	69.1	47.0	54.9	75.4	47.4	51.9	67.0	47.5	54.4	71.9	48.4	
09:00 - 10:00	53.2	69.2	48.5	51.2	65.2	46.8	51.8	64.2	47.7	51.8	67.5	48.5	
10:00 - 11:00	53.1	70.5	47.4	52.4	73.6	47.1	52.4	68.6	48.4	52.2	66.2	48.4	
11:00 - 12:00	51.2	67.6	46.4	51.5	70.3	46.8	51.3	67.9	47.1	52.9	72.4	48.2	
12:00 - 13:00	51.7	68.2	48.3	51.0	69.4	45.9	52.9	73.6	47.5	52.8	68.0	47.7	
13:00 - 14:00	51.9	68.9	49.0	50.6	68.8	45.5	51.6	70.6	47.1	51.9	68.4	47.0	
14:00 - 15:00	52.1	70.8	48.4	50.9	69.3	45.5	51.6	69.7	47.3	51.8	66.9	47.6	
15:00 - 16:00	51.9	68.2	46.6	50.8	73.6	45.5	50.1	64.8	46.1	53.4	74.9	47.4	
16:00 - 17:00	53.0	69.8	46.1	51.3	70.2	46.8	51.5	68.2	45.8	52.7	71.1	47.7	
17:00 - 18:00	53.0	68.6	47.5	54.0	68.9	48.3	53.7	75.7	48.3	53.2	70.1	47.7	
18:00 - 19:00	57.3	70.5	47.3	56.8	66.7	50.5	54.6	68.4	48.5	55.0	75.0	47.1	
19:00 - 20:00	52.3	69.9	48.2	52.8	73.4	49.2	52.2	72.9	48.7	70.2	102.1	50.8	
20:00 - 21:00	51.8	72.8	47.7	51.6	66.6	48.3	50.9	66.8	48.2	60.9	82.9	49.1	
21:00 - 22:00	52.7	66.6	47.1	52.0	72.0	48.4	72.1	104.4	47.8	53.0	72.9	47.7	
22:00 - 23:00	53.1	72.4	46.2	51.5	74.6	47.0	62.0	92.2	48.1	50.0	69.0	47.5	
23:00 - 00:00	48.7	64.5	46.0	50.4	70.3	47.0	52.7	73.7	48.5	49.0	72.1	46.4	
Leq 24 hr	52.4	-	-	52.4	-	-	59.5	-	-	58.1	-	-	70
Ldn	57.4	-	-	58.2	-	-	63.1	-	-	60.2	-	-	-
Lmax	-	73.4	-	-	75.4	-	-	104.4	-	-	102.1	-	115

Source : * The Notification of Environmental Board No.15, B.E. 2540 (1997)

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Technical Manager

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Report No. : 2022-5003734 / 003-3 (Page 2 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : บริเวณบ้านไม้ขาว **MEASUREMENT BY :** Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G300763

Time	Noise Level [dB(A)]									Standard*
	April 25, 2022			April 26, 2022			April 27, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00 - 01:00	51.2	74.8	46.2	49.1	70.3	45.7	49.3	63.9	47.9	
01:00 - 02:00	46.8	60.4	45.7	46.2	58.7	45.0	48.5	60.9	47.7	
02:00 - 03:00	46.1	57.1	45.0	46.2	62.5	44.9	48.4	62.1	47.8	
03:00 - 04:00	46.0	55.6	45.0	47.5	70.3	45.2	48.6	60.5	47.8	
04:00 - 05:00	48.4	68.7	45.0	47.6	59.5	45.1	49.5	58.2	47.8	
05:00 - 06:00	52.8	61.7	46.0	52.3	64.1	46.1	54.5	64.2	47.9	
06:00 - 07:00	54.4	66.0	48.5	53.4	70.6	47.5	54.6	69.4	49.3	
07:00 - 08:00	55.0	72.2	50.0	54.8	68.8	47.3	53.9	70.3	49.0	
08:00 - 09:00	53.5	66.0	49.3	53.8	71.3	48.9	53.8	73.0	48.9	
09:00 - 10:00	53.6	73.5	49.1	52.8	64.6	49.2	52.5	69.2	48.7	
10:00 - 11:00	54.5	74.7	48.4	53.9	71.7	48.9	52.6	70.3	47.7	
11:00 - 12:00	52.4	76.4	47.7	52.7	67.8	48.0	52.5	68.3	46.9	
12:00 - 13:00	51.1	67.6	46.8	52.6	71.5	47.5	52.7	72.5	46.8	
13:00 - 14:00	51.5	69.3	47.5	52.3	66.3	47.2	52.2	71.0	47.3	
14:00 - 15:00	51.5	69.8	47.3	53.5	81.7	47.9	50.8	68.4	47.3	
15:00 - 16:00	51.0	65.3	47.8	67.1	98.0	47.4	53.1	74.3	46.4	
16:00 - 17:00	52.5	71.8	48.2	53.6	71.5	48.0	52.2	73.6	46.5	
17:00 - 18:00	54.0	71.9	48.0	53.0	68.1	48.9	52.6	73.8	46.9	
18:00 - 19:00	59.1	72.2	47.5	57.5	74.7	49.0	56.3	74.0	48.2	
19:00 - 20:00	50.8	71.3	47.3	52.9	76.6	49.3	51.9	70.9	48.5	
20:00 - 21:00	52.6	74.5	46.4	51.5	67.2	49.0	50.7	68.0	47.2	
21:00 - 22:00	56.3	76.2	45.2	50.7	69.3	49.0	50.7	71.3	47.1	
22:00 - 23:00	51.0	73.9	45.7	50.8	71.7	49.0	48.9	72.8	45.8	
23:00 - 00:00	47.9	65.1	45.7	51.8	68.4	49.5	47.6	62.0	45.9	
Leq 24 hr	52.9	-	-	55.9	-	-	52.2	-	-	70
Ldn	57.5	-	-	58.7	-	-	57.6	-	-	-
Lmax	-	76.4	-	-	98.0	-	-	74.3	-	115

Source : 1/ Notification of the National Environment Board No.15, B.E. 2540 (1997).



Technical Manager

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Report No. : 2022-5003734 / 003-3 (Page 3 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
CONTACT : Khun Tiwa Hanprasankit
ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : บริเวณบ้านไม้ขาว **MEASUREMENT BY :** Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G300763

SOUND LEVEL MEASUREMENT REPORT - Model CR-1012, Cirrus Research plc, Serial No. CS00765										
Date	Time	Noise Level [dB(A)]			NEF	No. of Flight (Event)				
		Leq 24 hr	Lmax	Ldn		Nd		Nn		n
						ARR	DEP	ARR	DEP	
21/04/2022	00:00-00:00	52.4	73.4	39.7	4.7	8	16	0	1	25
22/04/2022	00:00-00:00	52.4	75.4	42.1	7.1	3	15	0	4	22
23/04/2022	00:00-00:00	59.5	104.4	43.5	8.5	0	20	0	5	25
24/04/2022	00:00-00:00	58.1	102.1	45.4	10.4	0	33	0	2	35
25/04/2022	00:00-00:00	52.9	76.4	43.7	8.7	0	23	0	5	28
26/04/2022	00:00-00:00	55.9	98.0	42.5	7.5	0	29	0	3	32
27/04/2022	00:00-00:00	52.2	74.3	42.5	7.5	0	32	0	3	35

Remark : N_d = จำนวนเหตุการณ์เสียงอากาศยาน ในช่วงเวลา 07.00-22.00 น.
 N_n = จำนวนเหตุการณ์เสียงอากาศยาน ในช่วงเวลา 22.00-07.00 น.
 n = จำนวนเหตุการณ์เสียงอากาศยาน ทั้งหมด
 ARR = เที่ยวบินเข้า (Arrival)
 DEP = เที่ยวบินออก (Departure)

TY/MM/STT/STT



Technical Manager

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Report No. : 2022-5003734 / 003-4 (Page 1 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
CONTACT : Khun Tiwa Hanprasankit
ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : บริเวณบ้านหมากปรก **MEASUREMENT BY :** Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G078417

Noise Level [dB(A)]													Standard*
Time	April 21, 2022			April 22, 2022			April 23, 2022			April 24, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00 - 01:00	52.1	76.3	45.6	53.8	69.8	51.7	54.2	72.8	50.3	53.4	73.2	50.2	
01:00 - 02:00	51.3	69.5	45.2	53.6	69.3	51.7	52.5	72.0	50.0	52.1	69.5	48.9	
02:00 - 03:00	50.5	66.9	46.7	54.8	74.2	51.8	52.1	65.2	50.0	51.7	63.7	48.8	
03:00 - 04:00	50.1	66.9	45.3	53.8	70.1	52.0	52.3	67.0	49.8	56.8	76.9	49.2	
04:00 - 05:00	64.6	82.9	45.8	64.9	82.8	52.2	66.2	83.2	50.3	65.9	82.9	48.8	
05:00 - 06:00	67.5	83.4	47.7	71.0	83.4	53.2	69.8	84.4	52.1	66.5	82.1	50.8	
06:00 - 07:00	57.7	74.4	49.3	59.3	70.7	54.1	60.2	75.1	52.9	58.4	78.4	51.3	
07:00 - 08:00	57.7	75.3	49.2	59.2	71.7	54.6	60.0	79.8	52.0	58.4	75.5	51.3	
08:00 - 09:00	60.5	81.1	48.8	61.5	81.4	53.5	59.6	78.6	52.8	60.9	81.9	50.8	
09:00 - 10:00	58.3	78.9	47.9	59.8	79.0	53.6	60.1	79.0	52.2	56.4	73.3	50.7	
10:00 - 11:00	59.9	80.4	48.5	60.0	79.9	52.8	61.3	78.9	53.3	60.6	79.9	51.8	
11:00 - 12:00	60.4	81.4	54.3	60.3	78.9	51.9	60.6	79.4	53.0	63.3	87.0	51.8	
12:00 - 13:00	64.5	84.4	53.8	72.9	87.1	53.5	67.0	85.3	51.4	66.5	87.3	52.9	
13:00 - 14:00	60.4	79.5	53.1	61.0	79.2	50.8	59.6	78.3	50.5	60.6	80.3	51.7	
14:00 - 15:00	58.4	79.4	51.3	56.4	68.7	50.9	59.1	79.3	50.6	58.4	78.7	50.9	
15:00 - 16:00	62.2	80.1	53.8	64.3	82.4	52.2	62.0	81.2	50.2	65.5	83.9	53.1	
16:00 - 17:00	59.1	76.5	55.2	58.4	73.9	52.8	59.3	81.1	51.4	60.2	76.1	54.1	
17:00 - 18:00	60.3	83.3	54.8	58.9	71.3	54.2	58.9	74.9	53.8	60.1	81.3	54.3	
18:00 - 19:00	66.7	82.6	54.5	69.6	82.8	54.2	69.6	83.6	54.0	68.1	88.1	56.8	
19:00 - 20:00	66.9	82.0	53.6	66.0	81.0	52.5	66.1	82.9	52.9	74.3	102.1	59.6	
20:00 - 21:00	75.2	83.5	56.2	76.5	84.8	59.0	75.3	85.4	56.1	76.3	85.4	59.0	
21:00 - 22:00	69.8	82.7	52.9	68.5	82.4	53.2	68.7	89.4	54.3	67.1	80.4	52.5	
22:00 - 23:00	57.6	80.8	52.2	57.4	74.7	52.1	59.9	85.5	51.3	58.3	79.9	51.4	
23:00 - 00:00	57.0	79.1	51.6	56.7	78.6	51.0	60.2	78.5	50.1	54.2	69.3	50.7	
Leq 24 hr	65.0	-	-	66.8	-	-	65.6	-	-	66.6	-	-	70
Ldn	68.5	-	-	70.7	-	-	70.1	-	-	69.4	-	-	-
Lmax	-	84.4	-	-	87.1	-	-	89.4	-	-	102.1	-	115

Source : * The Notification of Environmental Board No.15, B.E. 2540 (1997)

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Technical Manager

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Report No. : 2022-5003734 / 003-4 (Page 2 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE** : April 21-27, 2022
MEASUREMENT LOCATION : บริเวณบ้านหมากปรก **MEASUREMENT BY** : Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G078417

Time	Noise Level [dB(A)]									Standard*
	April 25, 2022			April 26, 2022			April 27, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00 - 01:00	54.0	76.2	49.8	53.3	74.7	50.2	54.6	76.8	52.8	
01:00 - 02:00	53.1	76.7	49.7	51.8	64.0	49.8	54.4	69.9	52.8	
02:00 - 03:00	52.9	73.2	49.7	52.0	69.8	49.8	53.8	71.5	52.6	
03:00 - 04:00	55.1	74.7	49.8	52.9	72.3	49.5	55.0	70.4	52.7	
04:00 - 05:00	66.0	83.4	49.7	66.2	82.7	49.5	66.0	82.9	52.9	
05:00 - 06:00	65.9	78.4	51.5	70.7	84.4	51.9	66.7	79.1	53.6	
06:00 - 07:00	59.8	73.8	52.5	58.6	75.1	52.4	60.2	78.1	54.2	
07:00 - 08:00	58.6	73.7	52.8	57.8	74.0	52.8	58.3	71.0	53.4	
08:00 - 09:00	57.7	74.9	51.9	57.6	78.9	50.1	59.0	80.0	51.2	
09:00 - 10:00	60.3	82.1	52.0	58.4	79.9	50.2	57.2	76.7	50.7	
10:00 - 11:00	61.2	79.7	54.0	60.2	79.5	51.0	57.6	77.9	51.1	
11:00 - 12:00	61.0	81.9	53.4	61.0	82.0	51.4	57.3	72.3	51.1	
12:00 - 13:00	65.4	83.5	51.7	66.0	83.5	50.6	64.6	84.1	51.3	
13:00 - 14:00	61.0	79.6	50.1	57.5	72.1	52.7	59.4	79.7	50.9	
14:00 - 15:00	58.0	77.7	50.3	59.4	77.4	53.8	58.2	75.0	52.1	
15:00 - 16:00	64.2	81.1	50.2	64.5	82.8	54.0	58.0	73.3	52.3	
16:00 - 17:00	59.0	78.5	52.4	59.8	78.3	53.3	58.3	77.4	52.5	
17:00 - 18:00	59.7	79.6	53.2	59.0	74.5	53.8	59.6	77.8	53.8	
18:00 - 19:00	69.4	82.8	53.6	69.7	83.1	53.2	69.5	83.7	54.1	
19:00 - 20:00	65.9	84.1	51.9	66.5	81.0	52.4	66.0	83.7	54.0	
20:00 - 21:00	75.9	84.2	56.4	75.4	85.1	56.3	76.0	83.2	56.7	
21:00 - 22:00	73.1	85.0	52.3	71.3	82.7	51.2	70.7	81.6	54.4	
22:00 - 23:00	56.0	74.0	51.8	56.4	74.8	50.6	57.2	74.8	54.2	
23:00 - 00:00	53.3	69.1	50.6	54.4	69.9	50.6	56.1	71.6	54.5	
Leq 24 hr	66.1	-	-	65.9	-	-	65.5	-	-	70
Ldn	69.0	-	-	70.3	-	-	69.0	-	-	-
Lmax	-	85.0	-	-	85.1	-	-	84.1	-	115

Source : ^{1/} Notification of the National Environment Board No.15, B.E. 2540 (1997).

(Signature)
 Technical Manager

SGS (THAILAND) LIMITED

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Report No. : 2022-5003734 / 003-4 (Page 3 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : บริเวณบ้านหมากปรก **MEASUREMENT BY :** Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G078417

Model CR-1012, CINDS Research plc, Serial No. G078417										
Date	Time	Noise Level [dB(A)]			NEF	No. of Flight (Event)				
		Leq 24 hr	Lmax	Ldn		Nd		Nn		n
						ARR	DEP	ARR	DEP	
21/04/2022	00:00-00:00	65.0	84.4	56.9	21.9	4	43	6	1	54
22/04/2022	00:00-00:00	66.8	87.1	56.7	21.7	31	29	7	1	68
23/04/2022	00:00-00:00	65.6	89.4	56.0	21.0	31	28	3	1	63
24/04/2022	00:00-00:00	66.6	102.1	56.2	21.2	28	33	2	2	65
25/04/2022	00:00-00:00	66.1	85.0	54.4	19.4	15	31	3	0	49
26/04/2022	00:00-00:00	65.9	85.1	54.7	19.7	16	25	5	0	46
27/04/2022	00:00-00:00	65.5	84.1	51.9	16.9	28	12	4	1	45

Remark : N_d = จำนวนเหตุการณ์เสียงอากาศยาน ในช่วงเวลา 07.00-22.00 น.
 N_n = จำนวนเหตุการณ์เสียงอากาศยาน ในช่วงเวลา 22.00-07.00 น.
 n = จำนวนเหตุการณ์เสียงอากาศยานทั้งหมด
 ARR = เที่ยวบินเข้า (Arrival)
 DEP = เที่ยวบินออก (Departure)

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[Signature]
 (Thipsan Pommara)
 Technical Manager

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Report No. : 2022-5003734 / 003-5 (Page 1 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : บริเวณบ้านแหลมทราย **MEASUREMENT BY :** Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G080140

Time	Noise Level [dB(A)]												Standard*
	April 21, 2022			April 22, 2022			April 23, 2022			April 24, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00 - 01:00	49.9	63.4	48.2	47.9	54.1	47.6	48.3	57.9	47.7	54.8	72.3	44.5	
01:00 - 02:00	48.9	63.1	48.1	48.1	58.6	47.6	49.2	57.4	48.3	45.8	62.9	44.8	
02:00 - 03:00	48.7	59.6	47.9	47.8	49.3	47.3	48.5	65.0	47.8	45.6	60.2	44.5	
03:00 - 04:00	48.5	58.1	47.9	47.9	53.6	47.4	48.8	60.1	48.0	60.4	73.4	44.3	
04:00 - 05:00	48.7	60.8	47.7	49.3	63.7	47.3	49.1	60.5	47.9	46.5	60.1	44.7	
05:00 - 06:00	56.4	68.2	47.9	58.4	69.0	47.6	56.8	67.9	48.0	53.6	67.3	45.6	
06:00 - 07:00	58.0	77.2	48.3	58.2	77.6	48.2	55.2	77.4	48.2	54.7	78.3	46.2	
07:00 - 08:00	53.5	74.5	47.4	55.2	78.3	47.4	56.9	77.8	47.4	54.7	78.9	43.8	
08:00 - 09:00	56.3	74.8	47.4	58.0	77.4	47.0	56.5	77.5	46.4	57.4	76.5	43.0	
09:00 - 10:00	55.7	76.3	47.3	54.7	73.8	46.8	56.1	78.1	45.9	50.9	70.9	41.8	
10:00 - 11:00	69.4	96.1	48.3	57.1	75.9	47.7	58.2	78.0	46.2	57.1	76.5	41.7	
11:00 - 12:00	56.6	76.4	47.4	74.7	109.6	47.1	56.8	76.3	46.4	56.9	78.0	41.1	
12:00 - 13:00	58.0	80.9	47.4	58.2	79.3	46.5	56.7	74.7	46.5	57.0	76.2	41.2	
13:00 - 14:00	57.3	79.6	47.1	58.0	78.1	47.0	57.1	76.6	46.5	56.0	73.7	41.8	
14:00 - 15:00	52.9	71.8	46.5	53.0	75.5	46.3	55.8	75.7	46.5	53.7	74.8	40.8	
15:00 - 16:00	55.8	77.4	46.9	57.2	77.7	46.4	54.9	76.5	46.0	57.3	79.5	42.0	
16:00 - 17:00	56.9	76.8	47.2	58.8	78.6	46.4	57.0	77.2	46.0	56.2	78.1	41.1	
17:00 - 18:00	56.1	78.1	47.5	56.3	77.1	46.2	58.0	82.1	44.9	55.9	77.1	42.1	
18:00 - 19:00	59.2	76.0	48.3	60.7	78.5	47.0	62.7	78.1	43.6	69.8	101.2	43.9	
19:00 - 20:00	55.8	77.9	48.1	59.8	79.1	47.6	59.0	79.3	45.1	71.3	94.6	49.8	
20:00 - 21:00	57.0	77.2	48.0	62.0	79.7	48.5	57.1	77.9	46.2	58.4	77.8	44.9	
21:00 - 22:00	57.0	78.2	48.0	59.1	77.3	52.7	61.2	80.2	45.4	53.2	76.0	44.2	
22:00 - 23:00	57.3	80.6	47.9	58.7	82.1	47.9	53.4	81.0	44.4	56.6	80.9	44.3	
23:00 - 00:00	52.3	75.4	47.7	51.6	72.8	47.6	51.3	72.4	44.6	45.4	55.4	44.5	
Leq 24 hr	58.6	-	-	62.4	-	-	56.7	-	-	61.1	-	-	70
Ldn	61.8	-	-	64.3	-	-	60.2	-	-	63.5	-	-	-
Lmax	-	96.1	-	-	109.6	-	-	82.1	-	-	101.2	-	115

Source : * The Notification of Environmental Board No.15, B.E. 2540 (1997)

TY/MM/STT/STT



Technical Manager

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Report No. : 2022-5003734 / 003-5 (Page 2 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
CONTACT : Khun Tiwa Hanprasankit
ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : บริเวณบ้านแหลมทราย **MEASUREMENT BY :** Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G080140

Time	Noise Level [dB(A)]									Standard*
	April 25, 2022			April 26, 2022			April 27, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00 - 01:00	45.7	63.4	44.4	45.9	59.1	44.8	46.6	65.8	44.5	
01:00 - 02:00	45.2	54.7	44.6	44.7	53.8	43.9	44.8	54.5	44.2	
02:00 - 03:00	45.0	59.5	43.4	45.0	60.0	43.9	44.0	52.9	43.5	
03:00 - 04:00	44.0	47.6	43.5	44.9	58.9	44.0	44.9	57.2	44.0	
04:00 - 05:00	45.0	61.2	43.4	45.6	60.8	43.9	45.2	59.2	44.0	
05:00 - 06:00	53.5	66.2	43.6	53.5	65.1	44.3	59.5	69.8	44.2	
06:00 - 07:00	57.2	77.7	44.8	55.1	76.9	45.0	56.2	76.4	45.7	
07:00 - 08:00	56.1	77.8	43.6	52.1	76.9	43.6	53.7	77.9	43.2	
08:00 - 09:00	54.4	77.0	42.4	54.2	77.0	42.0	56.8	78.2	41.8	
09:00 - 10:00	55.8	76.8	43.0	52.5	75.6	41.4	53.2	76.1	42.5	
10:00 - 11:00	55.4	75.4	42.0	56.7	73.8	42.5	60.1	81.1	49.2	
11:00 - 12:00	57.9	77.9	42.7	55.5	75.8	41.5	56.7	77.8	41.6	
12:00 - 13:00	56.5	74.0	42.4	55.5	75.2	41.9	57.9	79.7	41.0	
13:00 - 14:00	57.0	76.3	41.6	52.0	75.8	41.1	55.5	76.0	41.0	
14:00 - 15:00	53.1	75.9	41.4	53.1	75.1	41.2	53.8	75.9	41.5	
15:00 - 16:00	51.8	74.9	41.1	56.6	79.8	43.1	57.1	78.8	42.8	
16:00 - 17:00	56.3	75.5	42.2	57.8	77.2	42.9	57.0	76.5	42.9	
17:00 - 18:00	55.7	75.9	41.7	53.9	76.2	42.8	55.7	75.9	43.2	
18:00 - 19:00	60.8	77.9	43.0	62.9	81.7	43.3	61.8	77.1	44.1	
19:00 - 20:00	56.4	76.6	44.5	57.6	79.5	44.0	55.8	76.9	43.7	
20:00 - 21:00	59.9	82.9	45.4	55.1	77.2	43.8	60.0	84.5	45.2	
21:00 - 22:00	61.0	81.4	47.0	56.2	77.2	44.4	54.1	74.7	44.3	
22:00 - 23:00	56.1	81.8	44.9	56.0	80.4	43.5	56.1	79.9	43.4	
23:00 - 00:00	45.4	54.4	44.8	60.1	73.4	44.6	44.2	59.1	43.4	
Leq 24 hr	55.9	-	-	55.7	-	-	56.2	-	-	70
Ldn	59.5	-	-	60.7	-	-	60.5	-	-	-
Lmax	-	82.9	-	-	81.7	-	-	84.5	-	115

Source : Notification of the National Environment Board No.15, B.E. 2540 (1997).



(Signature)
 Technical Manager

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Report No. : 2022-5003734 / 003-5 (Page 3 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
CONTACT : Khun Tiwa Hanprasankit
ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE** : April 21-27, 2022
MEASUREMENT LOCATION : บริเวณบ้านแหลมทราย **MEASUREMENT BY** : Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G080140

Date	Time	Noise Level [dB(A)]			NEF	No. of Flight (Event)				
		Leq 24 hr	Lmax	Ldn		N _d		N _n		n
						ARR	DEP	ARR	DEP	
21/04/2022	00:00-00:00	58.6	96.1	56.2	21.2	20	44	7	1	72
22/04/2022	00:00-00:00	62.4	109.6	57.0	22.0	45	34	7	1	87
23/04/2022	00:00-00:00	56.7	82.1	55.0	20.0	47	30	2	1	80
24/04/2022	00:00-00:00	61.1	101.2	54.3	19.3	44	33	3	2	82
25/04/2022	00:00-00:00	55.9	82.9	54.4	19.4	33	30	5	0	68
26/04/2022	00:00-00:00	55.7	81.7	54.6	19.6	39	27	5	0	71
27/04/2022	00:00-00:00	56.2	84.5	55.4	20.4	61	15	5	1	82

Remark : N_d = จำนวนเหตุการณ์เสียงอากาศยาน ในช่วงเวลา 07.00-22.00 น.
 N_n = จำนวนเหตุการณ์เสียงอากาศยาน ในช่วงเวลา 22.00-07.00 น.
 n = จำนวนเหตุการณ์เสียงอากาศยานทั้งหมด
 ARR = เที่ยวบินเข้า (Arrival)
 DEP = เที่ยวบินออก (Departure)

TY/MM/STT/STT



Technical Manager

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Report No. : 2022-5003734 / 003-6 (Page 1 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED

CONTACT : Khun Tiwa Hanprasankit

ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110

Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level

MEASUREMENT DATE : April 21-27, 2022

MEASUREMENT LOCATION : บริเวณพื้นที่ก่อสร้างทางข้ามถนนสาย P MEASUREMENT BY : Kittikhun Thaseephet

CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745

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 Research plc, Serial No. G078642

Noise Level [dB(A)]													
Time	April 21, 2022			April 22, 2022			April 23, 2022			April 24, 2022			Standard*
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00 - 01:00	61.9	81.5	55.3	61.3	81.5	54.3	64.8	91.4	54.2	60.4	76.4	53.6	
01:00 - 02:00	64.5	95.2	56.8	58.5	72.2	55.1	63.5	73.8	59.4	64.6	82.8	56.5	
02:00 - 03:00	59.1	72.3	56.2	56.5	72.3	52.1	63.4	78.3	57.5	69.2	82.7	56.4	
03:00 - 04:00	59.8	83.9	52.9	56.9	70.5	53.8	63.4	73.5	58.1	69.6	81.2	56.6	
04:00 - 05:00	60.3	78.3	55.8	58.8	76.6	54.7	63.6	81.2	57.8	70.7	82.2	62.5	
05:00 - 06:00	63.6	83.4	56.8	63.4	80.8	56.0	63.8	83.6	54.7	63.2	82.9	55.2	
06:00 - 07:00	65.5	88.8	52.5	65.1	84.0	53.1	63.9	86.0	52.2	64.9	86.8	52.6	
07:00 - 08:00	66.4	86.8	52.6	65.1	86.2	53.5	65.0	86.9	52.9	65.5	84.7	52.2	
08:00 - 09:00	66.7	87.8	52.5	67.5	89.1	53.5	66.5	92.3	52.8	67.9	91.5	51.9	
09:00 - 10:00	66.0	88.8	54.5	64.8	83.8	53.4	66.7	87.3	53.2	63.9	89.8	51.2	
10:00 - 11:00	67.1	87.2	55.1	66.1	88.2	53.8	66.8	89.7	54.2	66.4	87.4	49.0	
11:00 - 12:00	66.8	90.2	54.7	67.8	90.4	53.0	66.3	86.9	52.9	68.8	93.5	50.3	
12:00 - 13:00	67.5	91.6	53.9	68.8	94.6	51.7	66.2	89.0	52.4	69.3	94.0	49.0	
13:00 - 14:00	68.0	87.9	54.8	68.4	90.1	53.8	66.4	85.0	53.8	69.6	89.3	51.2	
14:00 - 15:00	65.4	86.5	54.5	65.4	91.5	54.2	67.0	91.5	54.2	64.8	88.1	50.4	
15:00 - 16:00	65.0	85.8	54.0	66.4	91.0	54.1	64.6	86.2	54.7	63.6	81.1	51.5	
16:00 - 17:00	65.5	84.4	56.5	66.0	90.9	54.4	66.7	87.0	56.5	64.8	86.0	50.0	
17:00 - 18:00	65.5	85.8	55.2	64.7	82.8	55.7	69.7	93.3	58.3	64.5	82.4	52.7	
18:00 - 19:00	67.0	87.0	53.0	64.2	79.9	53.9	65.0	92.0	53.4	64.8	84.6	54.2	
19:00 - 20:00	66.1	87.2	51.3	64.2	86.0	50.9	64.1	84.2	51.7	79.5	114.2	54.7	
20:00 - 21:00	64.4	88.7	53.4	68.0	91.2	51.9	66.1	88.6	50.6	67.9	85.1	55.6	
21:00 - 22:00	67.5	89.1	54.7	68.4	89.6	52.7	68.1	96.0	50.9	64.8	84.8	52.9	
22:00 - 23:00	65.5	85.7	53.7	64.5	84.2	53.6	63.6	83.3	49.8	65.0	87.4	55.3	
23:00 - 00:00	63.8	90.7	53.3	64.4	91.9	53.9	64.9	89.3	51.0	61.1	82.2	54.5	
Leq 24 hr	65.5	-	-	65.5	-	-	65.8	-	-	69.1	-	-	70
Ldn	70.3	-	-	69.6	-	-	70.8	-	-	73.8	-	-	-
Lmax	-	95.2	-	-	94.6	-	-	96.0	-	-	114.2	-	115

Source : * The Notification of Environmental Board No.15, B.E. 2540 (1997)

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Technical Manager

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Report No. : 2022-5003734 / 003-6 (Page 2 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : บริเวณพื้นที่ก่อสร้างทางขั้วขนานสาย P **MEASUREMENT BY :** Kittikhun Thaseephet
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G078642

Time	Noise Level [dB(A)]									Standard*
	April 25, 2022			April 26, 2022			April 27, 2022			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00 - 01:00	59.7	76.2	54.5	68.8	92.6	59.2	58.4	75.4	53.5	
01:00 - 02:00	57.0	70.2	54.5	67.7	77.5	60.9	54.9	73.2	50.6	
02:00 - 03:00	58.1	71.1	54.0	67.9	79.4	59.3	56.2	73.5	51.0	
03:00 - 04:00	53.9	69.6	50.3	67.7	86.2	58.0	55.5	73.3	50.8	
04:00 - 05:00	56.4	74.9	51.1	68.9	90.2	59.0	58.9	80.7	49.5	
05:00 - 06:00	62.5	83.8	53.1	64.9	82.2	55.1	62.4	80.7	53.8	
06:00 - 07:00	64.7	89.7	51.7	65.2	88.8	51.9	65.4	87.2	52.0	
07:00 - 08:00	67.0	91.9	53.5	66.0	86.7	53.3	66.5	88.6	53.3	
08:00 - 09:00	68.5	88.5	59.8	65.8	85.3	53.8	65.3	87.1	52.3	
09:00 - 10:00	69.5	91.2	59.8	66.1	93.4	55.3	65.1	90.1	52.3	
10:00 - 11:00	69.5	92.3	61.5	66.4	85.2	56.8	63.8	85.5	53.1	
11:00 - 12:00	67.4	84.9	56.3	66.3	88.8	54.9	63.3	79.0	52.8	
12:00 - 13:00	66.0	86.5	53.8	67.5	93.3	53.5	66.0	86.3	50.4	
13:00 - 14:00	68.6	86.5	59.8	66.7	92.6	54.2	66.2	86.1	50.4	
14:00 - 15:00	67.5	85.8	60.2	65.9	90.9	54.5	64.4	91.9	50.0	
15:00 - 16:00	65.2	87.8	55.2	65.3	90.3	54.4	63.8	82.0	51.3	
16:00 - 17:00	67.1	90.5	54.0	64.9	83.0	55.5	64.5	85.4	51.5	
17:00 - 18:00	64.5	86.0	53.9	64.8	78.8	54.8	65.4	86.3	54.3	
18:00 - 19:00	65.2	83.3	54.4	66.2	85.9	53.7	65.4	90.1	53.0	
19:00 - 20:00	64.9	87.0	51.5	63.8	80.7	51.2	62.7	78.4	51.9	
20:00 - 21:00	65.3	88.4	53.6	63.3	79.1	51.7	66.4	91.1	51.2	
21:00 - 22:00	68.2	90.9	54.4	67.2	89.6	50.1	65.7	87.6	52.3	
22:00 - 23:00	65.6	88.1	54.7	64.0	84.8	49.4	63.6	82.4	52.9	
23:00 - 00:00	65.1	88.3	52.1	58.8	75.9	51.0	62.8	84.2	52.2	
Leq 24 hr	65.9	-	-	66.2	-	-	64.0	-	-	70
Ldn	69.7	-	-	73.1	-	-	68.5	-	-	-
Lmax	-	92.3	-	-	92.3	-	-	91.9	-	115

Source : ^{1/} Notification of the National Environment Board No.15, B.E. 2540 (1997).

SGS (THAILAND) LIMITED

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Technical Manager

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Report No. : 2022-5003734 / 003-6 (Page 3 of 3) Issued date : May 27, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** April 21-27, 2022
MEASUREMENT LOCATION : บริเวณพื้นที่ก่อสร้างทางข้ามขนานสาย P **MEASUREMENT BY :** Kittikhun Thaseepheth
CALIBRATION DATA : Model CR:515, Cirrus Research plc, Serial No. 81745
 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 Research plc, Serial No. G078642

Date	Time	Noise Level [dB(A)]			NEF	No. of Flight (Event)				
		Leq 24 hr	Lmax	Ldn		Nd		Nn		n
						ARR	DEP	ARR	DEP	
21/04/2022	00:00-00:00	65.5	95.2	63.5	28.5	18	45	7	1	71
22/04/2022	00:00-00:00	65.5	94.6	63.5	28.5	46	34	7	1	88
23/04/2022	00:00-00:00	65.8	96.0	61.1	26.1	56	30	1	1	88
24/04/2022	00:00-00:00	69.1	114.2	63.2	28.2	59	33	6	2	100
25/04/2022	00:00-00:00	65.9	92.3	60.8	25.8	35	30	5	0	70
26/04/2022	00:00-00:00	66.2	93.4	61.1	26.1	42	27	5	0	74
27/04/2022	00:00-00:00	64.0	91.9	59.7	24.7	63	15	5	1	84

Remark : N_d = จำนวนเหตุการณ์เสียงอากาศยาน ในช่วงเวลา 07.00-22.00 น.
 N_n = จำนวนเหตุการณ์เสียงอากาศยาน ในช่วงเวลา 22.00-07.00 น.
 n = จำนวนเหตุการณ์เสียงอากาศยาน ทั้งหมด
 ARR = เที่ยวบินเข้า (Arrival)
 DEP = เที่ยวบินออก (Departure)



[Redacted Signature]
 (Thaprasan Vorramana)
 Technical Manager

TY/MM/STT/STT

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ผลการตรวจวัดคุณภาพน้ำทะเลชายฝั่ง

Report No. : 2022-5003734 / 001-1 (Page 1 of 2)

Issued date: May 09, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED

CONTACT : Khun Tiwa Hanprasankit

ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110

Tel. 076-351-896

Fax. 076-327-478

E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Sea Water Quality

SAMPLING DATE : April 25, 2022

SAMPLING METHOD : Grab Sampling

SAMPLING TIME : 09.35 hr.

SAMPLING LOCATION : บริเวณปลายท่าระบายน้ำทางฝั่งด้าน 09

SAMPLING BY : Kittikhun Thaseephet

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Unit	Method	Result	Standard ^{1/}
Temperature	°C	APHA, 2550 B	31.5	n*
pH	-	APHA, 4500-H ⁺ B	8.1	7.0-8.5
Turbidity	NTU	APHA, 2130 B	<0.50	-
Salinity	ppt	APHA, 2520 B	32.0	*
Transparency	m.	Secchi Disc	5.2	**
SS	mg/l	APHA, 2540 D	1.2	***
TDS	mg/l	APHA, 2540 C	38,600	-
Fat, Oil & Grease (FOG)	mg/l	APHA, 5520 B	<2	-
DO	mg/l	APHA, 4500-O C	8.03	Not less than 6.0
TOC	mg/l	APHA, 9060 A	1.3	-
Nitrate-Nitrogen	µg-N/l	APHA, 4110 B	<0.005	Not more than 20.0
Phosphate-Phosphorus	µg-P/l	APHA, 4500 P E	<0.03	Not more than 15.0
Total Coliform Bacteria	MPN/100 ml	APHA. 9221 B	<1.8	Not more than 1,000
Fecal Coliform Bacteria	CFU/100 ml	APHA. 9222 D	<1	Not more than 70

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

n* = Temperature not change from natural condition.

* = The results not be changed more than 10% of lowest sanitary.

** = Decrease from natural condition not more than 10% of lowest transparency.

*** = The results should not be changed by more than the sum of diary or monthly or yearly average and the standard deviation.

Source : ^{1/} Notification of the National Environmental Board, B.E. 2560: The standard value of Marine Water Quality for class 2.



Technical Manager



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Report No. : 2022-5003734 / 001-1 (Page 2 of 2)

Issued date: May 09, 2022

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Analysis Report

SAMPLE DESIGNATED AS : Sea Water Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : บริเวณปลายท่าระบายน้ำด้านทิศใต้
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : April 25, 2022
SAMPLING TIME : 09.23 hr.
SAMPLING BY : Kittikhun Thaseephet

Parameter	Unit	Method	Result	Standard ^{1/}
Temperature	°C	APHA, 2550 B	31.8	n*
pH	-	APHA, 4500-H ⁺ B	8.1	7.0-8.5
Turbidity	NTU	APHA, 2130 B	<0.50	-
Salinity	ppt	APHA, 2520 B	31.3	*
Transparency	m.	Secchi Disc	6.3	**
SS	mg/l	APHA, 2540 D	1.5	***
TDS	mg/l	APHA, 2540 C	35,500	-
Fat, Oil & Grease (FOG)	mg/l	APHA, 5520 B	<2	-
DO	mg/l	APHA, 4500-O C	8.84	Not less than 6.0
TOC	mg/l	APHA, 9060 A	1.2	-
Nitrate-Nitrogen	µg-N/l	APHA, 4110 B	1.36	Not more than 20.0
Phosphate-Phosphorus	µg-P/l	APHA, 4500 P E	<0.03	Not more than 15.0
Total Coliform Bacteria	MPN/100 ml	APHA. 9221 B	<1.8	Not more than 1,000
Fecal Coliform Bacteria	CFU/100 ml	APHA. 9222 D	<1	Not more than 70

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

n* = Temperature not change from natural condition.

* = The results not be changed more than 10% of lowest sanitary.

** = Decrease from natural condition not more than 10% of lowest transparency.

*** = The results should not be changed by more than the sum of diary or monthly or yearly average and the standard deviation.

Source : ^{1/} Notification of the National Environmental Board, B.E. 2560: The standard value of Marine Water Quality for class 2.



Technical Manager

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ผลการตรวจวัดคุณภาพน้ำผิวดิน

Report No. : 2022-5003734 / 001-2 (Page 1 of 2)

Issued date: May 5, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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ADDRESS : 222 Moo 6 Tambon Maikhao, Talang District, Phuket 83110
 Tel. 076-351-896 Fax. 076-327-478 E-mail: tiwa.h@airportthai.co.th

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality
SAMPLING METHOD : Grab Sampling
SAMPLING LOCATION : สระเก็บน้ำดิบสำหรับทำน้ำประปา
 บ่อเก็บน้ำดิบ 1 (บ่อดิน)
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : April 22, 2022
SAMPLING TIME : 11.00 hr.
SAMPLING BY : Kittikhun Thaseephet

Parameter	Unit	Method	Result	Standard ^{1/}
Temperature	°C	APHA, 2550 B	32.7	n*
pH	-	APHA, 4500-H ⁺ B	7.1	5.0-9.0
Turbidity	NTU	APHA, 2130 B	11	-
SS	mg/l	APHA, 2540 D	<2.5	-
DO	mg/l	APHA, 4500-O C	8.0	Not less than 4.0
BOD	mg/l	APHA, 5210 B	2.0	Not more than 2.0
Fat, Oil & Grease (FOG)	mg/l	APHA, 5520 B	<2	-
Phosphate-Phosphorus	µg-P/l	APHA, 4500 P E	<0.03	-
Nitrate-Nitrogen	mg/l	APHA, 4500-NO ₃ E	0.084	Not more than 5.0
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	23	Not more than 20,000
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 E	7.8	Not more than 4,000

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

n* = Temperature naturally but changing not more than 3 °C

Source : ^{1/} Surface Water Quality, Notification of the National Environmental Board No. 8, B.E. 2537(1994).
 Classification of Standard is Class 3 meaning medium clean fresh surface water resources used for :
 (1) Consumption, but passing through an ordinary treatment process before use.
 (2) Agriculture.

[Redacted Signature]
 (Thasaporn Pannanand)

Technical Manager



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Report No. : 2022-5003734 / 001-2 (Page 2 of 2)

Issued date: May 5, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality **SAMPLING DATE :** April 22, 2022
SAMPLING METHOD : Grab Sampling **SAMPLING TIME :** 10.45 hr.
SAMPLING LOCATION : สระเก็บน้ำดิบสำหรับทำน้ำประปา: **SAMPLING BY :** Kittikhun Thaseephet
 ปอเก็บน้ำดิบ 2 (ปอซีเมนต์)
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Unit	Method	Result	Standard ^{1/}
Temperature	°C	APHA, 2550 B	34.3	n*
pH	-	APHA, 4500-H ⁺ B	7.4	5.0-9.0
Turbidity	NTU	APHA, 2130 B	19	-
SS	mg/l	APHA, 2540 D	20	-
DO	mg/l	APHA, 4500-O C	7.3	Not less than 4.0
BOD	mg/l	APHA, 5210 B	2.0	Not more than 2.0
Fat, Oil & Grease (FOG)	mg/l	APHA, 5520 B	<2	-
Phosphate-Phosphorus	µg-P/l	APHA, 45000 P E	<0.03	-
Nitrate-Nitrogen	mg/l	APHA, 4500-NO ₃ E	0.477	Not more than 5.0
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	2,400	Not more than 20,000
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 E	49	Not more than 4,000

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

n* = Temperature naturally but changing not more than 3 °C

Source : ^{1/} Surface Water Quality, Notification of the National Environmental Board No. 8, B.E. 2537(1994).
 Classification of Standard is Class 3 meaning medium clean fresh surface water resources used for :
 (1) Consumption, but passing through an ordinary treatment process before use.
 (2) Agriculture.



Technical Manager



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Report No. : 2022-5003734 / 001-3 (Page 1 of 1)

Issued date: May 12, 2022

CLIENT : AIRPORTS OF THAILAND PUBLIC COMPANY LIMITED
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Analysis Report

SAMPLE DESIGNATED AS : Ground Water Quality **SAMPLING DATE :** April 22, 2022
SAMPLING METHOD : Grab Sampling **SAMPLING TIME :** 11.40 hr.
SAMPLING LOCATION : บ่อพักน้ำบาดาลของท่าอากาศยานภูเก็ต **SAMPLING BY :** Kittikhun Thaseepheth
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Unit	Method	Result	Standard ^{1/}	
				Suitable Allowance	Maximum Allowable
Temperature	°C	APHA, 2550 B	31.4	-	-
pH	-	APHA, 4500-H ⁺ B	6.5	7.0-8.5	6.5-9.2
Conductivity	µs/cm	APHA, 2510 B	314	-	-
Turbidity	NTU	APHA, 2130 B	7.1	5	20
SS	mg/l	APHA, 2540 D	5.7	-	-
TDS	mg/l	APHA, 2540 C	207	✗600	1,200
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	94	✗300	500
Nitrate-Nitrogen	mg/l	APHA, 4110 B	3.53	✗45	45
Sulfate	mg/l	APHA, 4500-SO ₄ E	27	✗200	250
Chloride	mg/l	APHA, 4500-Cl G	0.01	✗250	600
Iron	mg/l	APHA, 3125 B	3.642	✗0.5	1.0
Manganese	mg/l	APHA, 3125 B	0.180	✗0.3	0.5
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	3.6	✗2.2	-
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 E	2.2	-	-
<i>E.Coli</i>	MPN/100 ml	APHA, 9221 F	2.2	none	-

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

✗ = Not more than

Source : ^{1/} Notification of the Ministry of Natural Resources and Environment :Technical Criterias and Measures to Prevent Public Health and Environment Hazard B.E. 2551 (2008), issued under the Ground Water Act B.E. 2520 (1977), published in the Royal Gazette, Vol. 125, Special Part 85 D, dated May 21, B.E. 2551 (2008).

(Thipsan Tommana)
 Technical Manager

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