

ภาคผนวก ก

หนังสือรับรองผลการตรวจวิเคราะห์

คุณภาพอากาศในบรรยากาศ

Report No. : 2023-5006426-3 / 001-1 (Page 1 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : December 7-10, 2023
SAMPLING BY : [REDACTED]

Station	Date	Parameter	
		TSP (mg/m ³)	PM10 (mg/m ³)
พื้นที่โครงการ	December 7-8, 2023	0.033	0.020
	December 8-9, 2023	0.032	0.024
	December 9-10, 2023	0.027	0.010
Standard *		≤ 0.33	≤ 0.12

Remark : - Sampling and analytical technique for TSP based on High Volume Air Sampler / Gravimetric Method and PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.
Source : * The notification of the National Environment Board No. 24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22, B.E. 2547 (2004).

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Technical Manager

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E 272460

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Member of the SGS Group

Report No. : 2023-5006426-3 / 001-1 (Page 2 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : December 7-9, 2023
SAMPLING BY : [REDACTED]

Time	NO ₂ Concentration (ppm)		
	December 7, 2023	December 8, 2023	December 9, 2023
00:00-01:00	0.005	0.009	0.010
01:00-02:00	0.005	0.006	0.009
02:00-03:00	0.005	0.010	0.011
03:00-04:00	0.006	0.009	0.007
04:00-05:00	0.008	0.004	0.009
05:00-06:00	0.008	0.007	0.009
06:00-07:00	0.007	0.003	0.009
07:00-08:00	0.007	0.004	0.007
08:00-09:00	0.009	0.007	0.009
09:00-10:00	0.007	0.007	0.008
10:00-11:00	0.005	0.007	0.008
11:00-12:00	0.005	0.007	0.007
12:00-13:00	0.006	0.009	0.009
13:00-14:00	0.006	0.008	0.009
14:00-15:00	0.003	0.006	0.003
15:00-16:00	0.001	0.003	0.003
16:00-17:00	0.007	0.005	0.010
17:00-18:00	0.006	0.009	0.010
18:00-19:00	0.008	0.010	0.010
19:00-20:00	0.009	0.011	0.011
20:00-21:00	0.009	0.010	0.010
21:00-22:00	0.008	0.009	0.004
22:00-23:00	0.004	0.010	0.011
23:00-00:00	0.008	0.009	0.010
1 hr-Minimum	0.001	0.003	0.003
1 hr-Maximum	0.009	0.011	0.011
Avg. 24 hr	0.006	0.007	0.008
Standard* (avg. 1 hr)	≤ 0.17		

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



Technical Manager

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Report No. : 2023-5006426-3 / 001-1 (Page 3 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : December 7-9, 2023
SAMPLING BY : Kittikhun Thaseepech

Time	CO Concentration (ppm)		
	December 7, 2023	December 8, 2023	December 9, 2023
00:00-01:00	0.824	0.824	0.488
01:00-02:00	0.727	0.367	0.555
02:00-03:00	0.814	0.791	0.741
03:00-04:00	0.611	0.356	0.563
04:00-05:00	0.667	0.702	0.814
05:00-06:00	0.773	0.396	0.758
06:00-07:00	0.834	0.884	0.878
07:00-08:00	0.383	0.438	0.748
08:00-09:00	0.461	0.605	0.716
09:00-10:00	0.478	0.417	0.849
10:00-11:00	0.674	0.599	0.540
11:00-12:00	0.718	0.513	0.698
12:00-13:00	0.371	0.345	0.537
13:00-14:00	0.500	0.505	0.871
14:00-15:00	0.506	0.619	0.882
15:00-16:00	0.386	0.327	0.566
16:00-17:00	0.424	0.762	0.837
17:00-18:00	0.865	0.419	0.796
18:00-19:00	0.435	0.397	0.805
19:00-20:00	0.515	0.903	0.662
20:00-21:00	0.611	0.848	0.812
21:00-22:00	0.723	0.471	0.452
22:00-23:00	0.565	0.567	0.398
23:00-00:00	0.546	0.488	0.478
1 hr-Minimum	0.371	0.327	0.398
1 hr-Maximum	0.865	0.903	0.882
Avg. 8 hrs	00:00-08:00	0.704	0.595
	08:00-16:00	0.512	0.491
	16:00-00:00	0.585	0.607
Standard* (avg. 1 hr)		≤ 30	
Standard* (avg. 8 hrs)		≤ 9	

Analytical Method : Non-dispersive Infrared (NDIR) Method.
Source : The notification of the National Environment Board No.10, B.E. 2538 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 112, Part 42D, dated May 25, B.E. 2538 (1995).



Technical Manager

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Report No. : 2023-5006426-3 / 001-1 (Page 4 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : December 7-9, 2023
SAMPLING BY : [REDACTED]

Station	Date	THC (ppm)
พื้นที่โครงการ	December 7, 2023	3.55
	December 8, 2023	3.58
	December 9, 2023	5.06

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E 272463

Report No. : 2023-5006426-3 / 001-1 (Page 5 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 7-9, 2023
SAMPLING BY : [REDACTED]

Time	SO ₂ Concentration (ppm)		
	December 7, 2023	December 8, 2023	December 9, 2023
00:00-01:00	0.002	0.003	0.002
01:00-02:00	0.002	0.003	0.001
02:00-03:00	0.001	0.004	0.001
03:00-04:00	0.004	0.002	0.003
04:00-05:00	0.002	0.004	0.001
05:00-06:00	0.004	0.003	0.002
06:00-07:00	0.002	0.004	0.004
07:00-08:00	0.003	0.002	0.002
08:00-09:00	0.004	0.003	0.003
09:00-10:00	0.001	0.004	0.004
10:00-11:00	0.003	0.001	0.001
11:00-12:00	0.001	0.003	0.002
12:00-13:00	0.002	0.002	0.002
13:00-14:00	0.001	0.003	0.002
14:00-15:00	0.004	0.002	0.001
15:00-16:00	0.003	0.002	0.002
16:00-17:00	0.004	0.002	0.004
17:00-18:00	0.001	0.003	0.003
18:00-19:00	0.004	0.002	0.002
19:00-20:00	0.003	0.003	0.001
20:00-21:00	0.002	0.004	0.002
21:00-22:00	0.004	0.002	0.002
22:00-23:00	0.004	0.004	0.003
23:00-00:00	0.002	0.001	0.001
1 hr-Minimum	0.001	0.001	0.001
1 hr-Maximum	0.004	0.004	0.004
Avg. 24 hr	0.003	0.003	0.002
Standard* (avg. 1 hr)	≤ 0.30		
Standard** (avg. 24 hr)	≤ 0.12		

Analytical Method : - UV Fluorescence Method.
Sources : * The notification of the National Environment Board No.21, B.E. 2544 (2001), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 118, Part 39E, dated December 30, B.E. 2544 (2001).
 ** The notification of the National Environment Board No. 24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22, B.E. 2547 (2004).

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Report No. : 2023-5006426-3 / 001-1 (Page 6 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 7-9, 2023
SAMPLING BY : [REDACTED]

TIME	December 7, 2023		December 8, 2023		December 9, 2023	
	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)
00:00-01:00	-	CALM	-	CALM	-	CALM
01:00-02:00	-	CALM	-	CALM	-	CALM
02:00-03:00	-	CALM	-	CALM	-	CALM
03:00-04:00	-	CALM	-	CALM	-	CALM
04:00-05:00	-	CALM	-	CALM	-	CALM
05:00-06:00	-	CALM	-	CALM	-	CALM
06:00-07:00	-	CALM	-	CALM	-	CALM
07:00-08:00	-	CALM	-	CALM	-	CALM
08:00-09:00	-	CALM	-	CALM	-	CALM
09:00-10:00	-	CALM	-	CALM	-	CALM
10:00-11:00	NE	2.2	NE	2.2	NE	0.9
11:00-12:00	NE	3.6	NE	2.7	NNE	1.3
12:00-13:00	NE	3.1	ESE	2.7	NE	2.7
13:00-14:00	NE	3.1	NE	2.2	NE	1.8
14:00-15:00	NE	2.7	NE	2.2	W	1.8
15:00-16:00	NE	2.7	NE	2.2	W	2.2
16:00-17:00	NE	2.2	N	2.2	W	2.2
17:00-18:00	NE	2.7	W	1.8	W	2.2
18:00-19:00	NE	2.2	W	1.8	W	2.2
19:00-20:00	ENE	1.3	-	CALM	W	0.9
20:00-21:00	ENE	0.9	-	CALM	-	CALM
21:00-22:00	ENE	0.9	-	CALM	-	CALM
22:00-23:00	-	CALM	-	CALM	-	CALM
23:00-00:00	E	0.9	-	CALM	-	CALM

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



SGS (THAILAND) LIMITED

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E 272465

Report No. : 2023-5006426-3 / 001-1 (Page 7 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : 
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: 

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 7-9, 2023
SAMPLING BY : 

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	-	-	1.39	-	-
NNE	-	1.39	-	-	-
NE	1.39	1.39	16.67	4.17	-
ENE	2.78	1.39	-	-	-
E	1.39	-	-	-	-
ESE	-	-	1.39	-	-
SE	-	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	1.39	4.17	5.56	-	-
WNW	-	-	-	-	-
NW	-	-	-	-	-
NNW	-	-	-	-	-
CALM	55.56				



Technical Manager

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E 272466

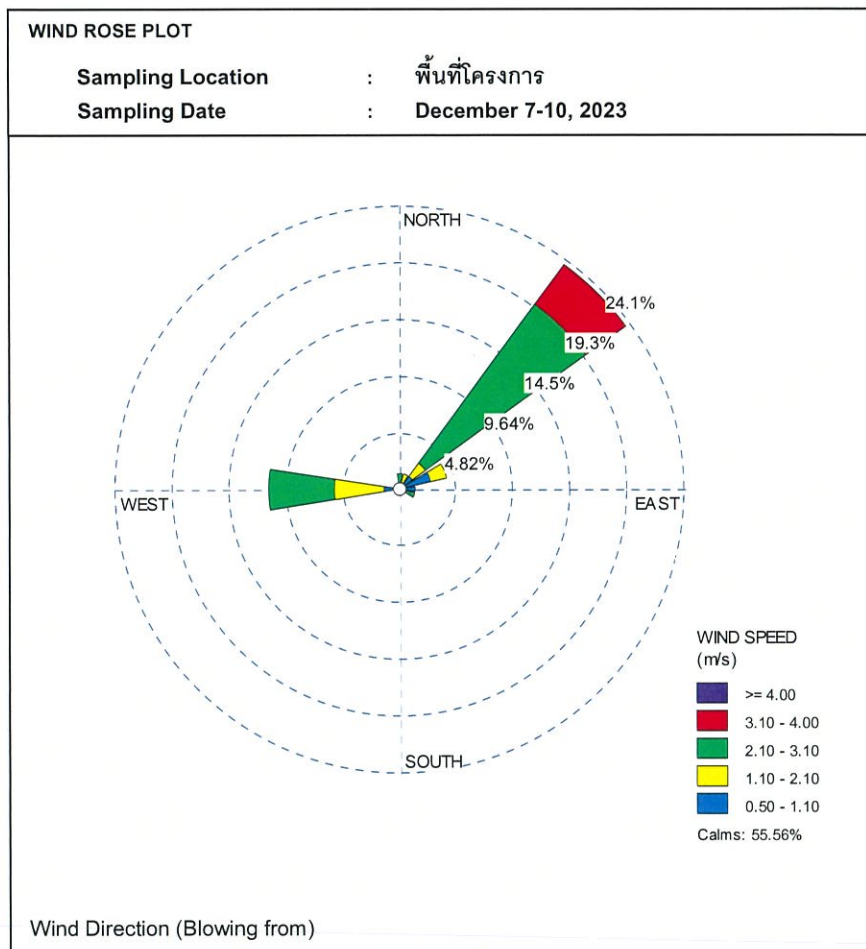
Report No. : 2023-5006426-3 / 001-1 (Page 8 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : พื้นที่โครงการ
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 7-9, 2023
SAMPLING BY : [REDACTED]



SGS (THAILAND) LIMITED

Technical Manager

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Report No. : 2023-5006426-3/ 001-2 (Page 1 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าไสม
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 7-10, 2023
SAMPLING BY : [REDACTED]

Station	Date	Parameter	
		TSP (mg/m ³)	PM10 (mg/m ³)
บ้านท่าไสม	December 7-8, 2023	0.075	0.014
	December 8-9, 2023	0.043	0.023
	December 9-10, 2023	0.038	0.018
Standard *		≤ 0.33	≤ 0.12

Remark : - Sampling and analytical technique for TSP based on High Volume Air Sampler / Gravimetric Method and PM10 based on Size Selective High Volume Air Sampler / Gravimetric Method.
Source : * The notification of the National Environment Board No. 24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22, B.E. 2547 (2004).



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Report No. : 2023-5006426-3/ 001-2 (Page 2 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าโสม
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 7-9, 2023
SAMPLING BY : [REDACTED]

Time	NO ₂ Concentration (ppm)		
	December 7, 2023	December 8, 2023	December 9, 2023
00:00-01:00	0.006	0.006	0.005
01:00-02:00	0.005	0.005	0.008
02:00-03:00	0.009	0.006	0.005
03:00-04:00	0.008	0.010	0.005
04:00-05:00	0.009	0.005	0.009
05:00-06:00	0.007	0.008	0.006
06:00-07:00	0.006	0.008	0.009
07:00-08:00	0.006	0.009	0.009
08:00-09:00	0.008	0.005	0.008
09:00-10:00	0.009	0.005	0.008
10:00-11:00	0.006	0.006	0.005
11:00-12:00	0.006	0.008	0.008
12:00-13:00	0.009	0.005	0.005
13:00-14:00	0.010	0.009	0.006
14:00-15:00	0.005	0.007	0.006
15:00-16:00	0.007	0.005	0.005
16:00-17:00	0.006	0.009	0.005
17:00-18:00	0.005	0.005	0.005
18:00-19:00	0.010	0.005	0.008
19:00-20:00	0.009	0.008	0.006
20:00-21:00	0.008	0.008	0.009
21:00-22:00	0.009	0.009	0.006
22:00-23:00	0.009	0.007	0.009
23:00-00:00	0.009	0.006	0.006
1 hr-Minimum	0.005	0.005	0.005
1 hr-Maximum	0.010	0.010	0.009
Avg. 24 hr	0.007	0.007	0.007
Standard* (avg. 1 hr)	≤ 0.17		

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



SGS (THAILAND) LIMITED

Technical Manager

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E 272469

Report No. : 2023-5006426-2/ 001-3 (Page 3 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** December 7-9, 2023
SAMPLING LOCATION : บ้านท่าโสม **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Time	CO Concentration (ppm)		
	December 7, 2023	December 8, 2023	December 9, 2023
00:00-01:00	0.206	0.119	0.116
01:00-02:00	0.199	0.103	0.187
02:00-03:00	0.198	0.128	0.160
03:00-04:00	0.211	0.138	0.187
04:00-05:00	0.181	0.145	0.210
05:00-06:00	0.156	0.257	0.220
06:00-07:00	0.172	0.555	0.238
07:00-08:00	0.214	0.787	0.281
08:00-09:00	0.243	0.109	0.286
09:00-10:00	0.195	0.143	0.245
10:00-11:00	0.127	0.119	0.435
11:00-12:00	0.183	0.158	0.284
12:00-13:00	0.971	0.127	0.281
13:00-14:00	0.821	0.121	0.260
14:00-15:00	0.541	0.186	0.276
15:00-16:00	0.778	0.431	0.276
16:00-17:00	0.733	0.541	0.266
17:00-18:00	0.452	0.718	0.327
18:00-19:00	0.141	0.142	0.346
19:00-20:00	0.234	0.221	0.474
20:00-21:00	0.122	0.163	0.194
21:00-22:00	0.109	0.101	0.190
22:00-23:00	0.114	0.116	0.183
23:00-00:00	0.117	0.456	0.192
1 hr-Minimum	0.109	0.101	0.116
1 hr-Maximum	0.971	0.787	0.474
Avg. 8 hrs	00:00-08:00	0.192	0.200
	08:00-16:00	0.482	0.293
	16:00-00:00	0.253	0.272
Standard* (avg. 1 hr)		≤ 30	
Standard* (avg. 8 hrs)		≤ 9	

Analytical Method : - Non-dispersive Infrared (NDIR) Method.
Source : * The notification of the National Environment Board No.10, B.E. 2538 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 112, Part 42D, dated May 25, B.E. 2538 (1995).



Technical Manager

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E 272470

Report No. : 2023-5006426-2/ 001-3 (Page 4 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าไสม
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : December 7-9, 2023
SAMPLING BY : Kittikhun Thaseepech

Station	Date	THC (ppm)
บ้านท่าไสม	December 7, 2023	3.98
	December 8, 2023	3.14
	December 9, 2023	3.17



SGS (THAILAND) LIMITED

Technical Manager

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E 272471

Report No. : 2023-5006426-2/ 001-3 (Page 5 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** December 7-9, 2023
SAMPLING LOCATION : บ้านท่าโสม **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Time	SO ₂ Concentration (ppm)		
	December 7, 2023	December 8, 2023	December 9, 2023
00:00-01:00	0.002	0.002	0.002
01:00-02:00	0.003	0.002	0.002
02:00-03:00	0.004	0.002	0.002
03:00-04:00	0.002	0.002	0.002
04:00-05:00	0.004	0.003	0.003
05:00-06:00	0.002	0.002	0.002
06:00-07:00	0.002	0.002	0.002
07:00-08:00	0.004	0.004	0.004
08:00-09:00	0.004	0.002	0.002
09:00-10:00	0.002	0.004	0.004
10:00-11:00	0.004	0.004	0.004
11:00-12:00	0.002	0.002	0.002
12:00-13:00	0.003	0.004	0.004
13:00-14:00	0.004	0.002	0.002
14:00-15:00	0.004	0.002	0.002
15:00-16:00	0.003	0.003	0.003
16:00-17:00	0.003	0.003	0.003
17:00-18:00	0.004	0.004	0.004
18:00-19:00	0.002	0.002	0.002
19:00-20:00	0.004	0.004	0.004
20:00-21:00	0.002	0.002	0.002
21:00-22:00	0.004	0.002	0.002
22:00-23:00	0.004	0.002	0.002
23:00-00:00	0.002	0.002	0.002
1 hr-Minimum	0.001	0.002	0.001
1 hr-Maximum	0.004	0.003	0.003
Avg. 24 hr	0.002	0.003	0.002
Standard* (avg. 1 hr)	≤ 0.30		
Standard** (avg. 24 hr)	≤ 0.12		

Analytical Method : - UV Fluorescence Method.
Sources : * The notification of the National Environment Board No.21, B.E. 2544 (2001), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 118, Part 39E, dated April 30, B.E. 2544 (2001).
 ** The notification of the National Environment Board No. 24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22, B.E. 2547 (2004).



Technical Manager

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E 272472

Report No. : 2023-5006426-3/ 001-3 (Page 6 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าโสม
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 7-9, 2023
SAMPLING BY : [REDACTED]

TIME	December 7, 2023		December 8, 2023		December 9, 2023	
	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)
00:00-01:00	-	CALM	-	CALM	-	CALM
01:00-02:00	-	CALM	-	CALM	-	CALM
02:00-03:00	-	CALM	-	CALM	-	CALM
03:00-04:00	-	CALM	-	CALM	-	CALM
04:00-05:00	-	CALM	-	CALM	-	CALM
05:00-06:00	-	CALM	-	CALM	-	CALM
06:00-07:00	-	CALM	-	CALM	-	CALM
07:00-08:00	-	CALM	-	CALM	-	CALM
08:00-09:00	-	CALM	-	CALM	-	CALM
09:00-10:00	N	1.3	NW	1.8	NW	0.9
10:00-11:00	NW	2.7	NW	2.2	NW	1.3
11:00-12:00	NW	2.2	NW	1.8	NW	0.9
12:00-13:00	E	1.3	NW	1.3	NW	1.8
13:00-14:00	N	2.2	NW	2.2	WNW	1.3
14:00-15:00	NW	2.2	NW	1.3	WSW	1.3
15:00-16:00	NW	2.2	NW	1.8	ESE	1.3
16:00-17:00	NW	1.3	WNW	1.8	SE	0.9
17:00-18:00	NW	1.3	W	0.9	SE	0.9
18:00-19:00	NNW	0.9	-	CALM	-	CALM
19:00-20:00	-	CALM	-	CALM	-	CALM
20:00-21:00	-	CALM	-	CALM	-	CALM
21:00-22:00	-	CALM	-	CALM	-	CALM
22:00-23:00	-	CALM	-	CALM	-	CALM
23:00-00:00	-	CALM	-	CALM	-	CALM

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

Technical Manager

SGS (THAILAND) LIMITED

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E 272473

Report No. : 2023-5006426-3/ 001-3 (Page 7 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าโสม
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 7-9, 2023

SAMPLING BY : [REDACTED]

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	-	1.39	1.39	-	-
NNE	-	-	-	-	-
NE	-	-	-	-	-
ENE	-	-	-	-	-
E	-	1.39	-	-	-
ESE	-	1.39	-	-	-
SE	2.78	-	-	-	-
SSE	-	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	1.39	-	-	-
W	1.39	-	-	-	-
WNW	-	2.78	-	-	-
NW	2.78	12.50	8.33	-	-
NNW	1.39	-	-	-	-
CALM	61.11				

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SGS (THAILAND) LIMITED



Technical Manager

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E 272474

SGS (Thailand) Limited

Environment, Health and Safety 100 Nanglinchee Road Chongnonsee Yannawa Bangkok 10120
 t +66 (0)2 678 18 13 f +66 (0)2 678 06 22 www.sgs.com

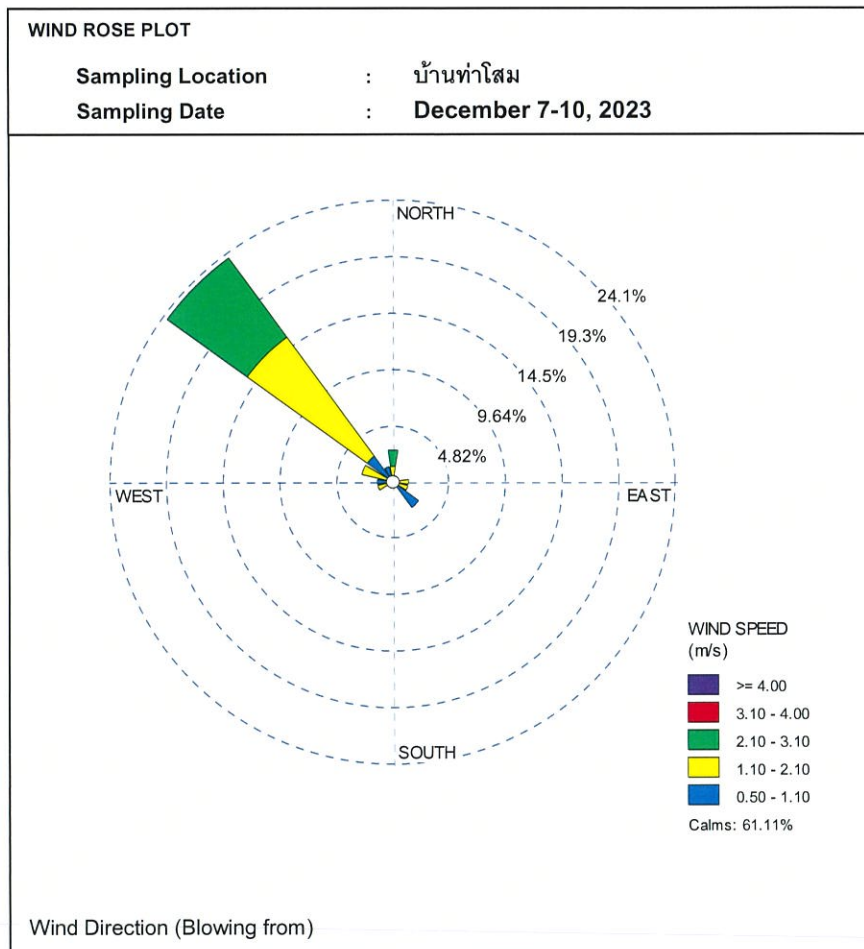
Report No. : 2023-5006426-3/ 001-3 (Page 8 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านท่าโสม
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 7-9, 2023
SAMPLING BY : [REDACTED]



Technical Manager

SGS (THAILAND) LIMITED

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E 272475

Report No. : 2023-5006426-3/ 001-3 (Page 1 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : 
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: 

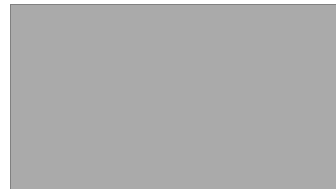
Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** December 7-10, 2023
SAMPLING LOCATION : บ้านบางกระดาน **SAMPLING BY :** 
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	Parameter	
		TSP (mg/m ³)	PM10 (mg/m ³)
บ้านบางกระดาน	December 7, 2023	0.027	0.013
	December 8, 2023	0.022	0.017
	December 9, 2023	0.023	0.015
Standard *		≤ 0.33	≤ 0.12

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

Source : * The notification of the National Environment Board No. 24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22, B.E. 2547 (2004).



Technical Manager



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E 272476

Report No. : 2023-5006426-3/ 001-3 (Page 2 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadi Rangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** December 7-9, 2023
SAMPLING LOCATION : บ้านบางกระดาน **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Time	NO ₂ Concentration (ppm)		
	December 7, 2023	December 8, 2023	December 9, 2023
00:00-01:00	0.005	0.003	0.005
01:00-02:00	0.004	0.007	0.004
02:00-03:00	0.004	0.002	0.004
03:00-04:00	0.002	0.004	0.003
04:00-05:00	0.003	0.002	0.004
05:00-06:00	0.003	0.003	0.002
06:00-07:00	0.005	0.005	0.004
07:00-08:00	0.004	0.007	0.005
08:00-09:00	0.002	0.003	0.005
09:00-10:00	0.004	0.003	0.005
10:00-11:00	0.003	0.004	0.004
11:00-12:00	0.005	0.004	0.005
12:00-13:00	0.006	0.005	0.005
13:00-14:00	0.009	0.004	0.004
14:00-15:00	0.008	0.004	0.004
15:00-16:00	0.007	0.002	0.003
16:00-17:00	0.005	0.004	0.002
17:00-18:00	0.005	0.002	0.002
18:00-19:00	0.005	0.003	0.002
19:00-20:00	0.005	0.011	0.006
20:00-21:00	0.004	0.008	0.007
21:00-22:00	0.004	0.007	0.005
22:00-23:00	0.004	0.005	0.005
23:00-00:00	0.003	0.004	0.003
1 hr-Minimum	0.002	0.002	0.002
1 hr-Maximum	0.009	0.011	0.007
Avg. 24 hr	0.005	0.004	0.004
Standard* (avg. 1 hr)	≤ 0.17		

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



SGS (THAILAND) LIMITED

Technical Manager

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E 272477

Report No. : 2023-5006426-3/ 001-3 (Page 3 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** December 7-9, 2023
SAMPLING LOCATION : บ้านบางกระดาน **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Time	CO Concentration (ppm)		
	December 7, 2023	December 8, 2023	December 9, 2023
00:00-01:00	0.486	0.163	0.279
01:00-02:00	0.286	0.665	0.680
02:00-03:00	0.871	0.568	0.180
03:00-04:00	0.685	0.266	0.682
04:00-05:00	0.282	0.768	0.283
05:00-06:00	0.479	0.679	0.884
06:00-07:00	0.878	0.187	0.780
07:00-08:00	0.881	0.874	0.451
08:00-09:00	0.678	0.476	0.380
09:00-10:00	0.180	0.676	0.582
10:00-11:00	0.882	0.776	0.644
11:00-12:00	0.882	0.778	0.472
12:00-13:00	0.674	0.378	0.479
13:00-14:00	0.865	0.876	0.372
14:00-15:00	0.266	0.779	0.641
15:00-16:00	0.661	0.581	0.572
16:00-17:00	0.860	0.678	0.774
17:00-18:00	0.651	0.867	0.451
18:00-19:00	0.162	0.268	0.173
19:00-20:00	0.625	0.721	0.676
20:00-21:00	0.267	0.176	0.478
21:00-22:00	0.364	0.274	0.724
22:00-23:00	0.764	0.570	0.675
23:00-00:00	0.263	0.631	0.175
1 hr-Minimum	0.162	0.163	0.173
1 hr-Maximum	0.882	0.876	0.884
Avg. 8 hrs	00:00-08:00	0.606	0.527
	08:00-16:00	0.636	0.518
	16:00-00:00	0.495	0.516
Standard* (avg. 1 hr)		≤ 30	
Standard* (avg. 8 hrs)		≤ 9	

Analytical Method : - Non-dispersive Infrared (NDIR) Method.
Source : * The notification of the National Environment Board No.10, B.E. 2538 (1995), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 112, Part 42D, dated May 25, B.E. 2538 (1995).



Technical Manager

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E 272478

Report No. : 2023-5006426-3/ 001-3 (Page 4 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING DATE : December 7-9, 2023
SAMPLING LOCATION : บ้านบางกระดาน
SAMPLING BY : Kittikhun Thaseepech
LABORATORY NAME : SGS (Thailand) Limited

Station	Date	THC (ppm)
บ้านบางกระดาน	December 7, 2023	4.37
	December 8, 2023	3.88
	December 9, 2023	3.18



SGS (THAILAND) LIMITED



Technical Manager

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E 272479

SGS (Thailand) Limited

Environment, Health and Safety 100 Nanglinchee Road Chongnonsee Yannawa Bangkok 10120
 t +66 (0)2 678 18 13 f +66 (0)2 678 06 22 www.sgs.com

Report No. : 2023-5006426-3/ 001-3 (Page 5 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality **SAMPLING DATE :** December 7-9, 2023
SAMPLING LOCATION : บ้านบางกระดาน **SAMPLING BY :** [REDACTED]
LABORATORY NAME : SGS (Thailand) Limited

Time	SO ₂ Concentration (ppm)		
	December 7, 2023	December 8, 2023	December 9, 2023
00:00-01:00	0.002	0.004	0.002
01:00-02:00	0.003	0.002	0.002
02:00-03:00	0.004	0.004	0.002
03:00-04:00	0.002	0.004	0.002
04:00-05:00	0.004	0.002	0.003
05:00-06:00	0.002	0.002	0.002
06:00-07:00	0.002	0.002	0.002
07:00-08:00	0.004	0.001	0.004
08:00-09:00	0.004	0.003	0.002
09:00-10:00	0.002	0.004	0.004
10:00-11:00	0.004	0.004	0.004
11:00-12:00	0.002	0.002	0.002
12:00-13:00	0.003	0.003	0.004
13:00-14:00	0.004	0.003	0.002
14:00-15:00	0.004	0.002	0.002
15:00-16:00	0.003	0.002	0.003
16:00-17:00	0.003	0.003	0.003
17:00-18:00	0.004	0.002	0.004
18:00-19:00	0.002	0.004	0.002
19:00-20:00	0.004	0.004	0.004
20:00-21:00	0.002	0.002	0.002
21:00-22:00	0.004	0.002	0.002
22:00-23:00	0.004	0.002	0.002
23:00-00:00	0.002	0.004	0.002
1 hr-Minimum	0.002	0.001	0.002
1 hr-Maximum	0.004	0.004	0.004
Avg. 24 hr	0.003	0.003	0.003
Standard* (avg. 1 hr)		≤ 0.30	
Standard** (avg. 24 hr)		≤ 0.12	

Analytical Method : - UV Fluorescence Method.
Sources : * The notification of the National Environment Board No.21, B.E. 2544 (2001), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 118, Part 39E, dated April 30, B.E. 2544 (2001).
 ** The notification of the National Environment Board No. 24, B.E. 2547 (2004), subjected "The ambient air standards", published in the Royal Government Gazette, Vol. 121, Part 104D, dated September 22 B.E. 2547 (2004)



Technical Manager

TY/MM/SJS/SJS

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E 272480

Report No. : 2023-5006426-3/ 001-3 (Page 6 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านบางกระดาน
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 7-9, 2023
SAMPLING BY : [REDACTED]

TIME	December 7, 2023		December 8, 2023		December 9, 2023	
	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)
00:00-01:00	-	CALM	ENE	0.9	-	CALM
01:00-02:00	-	CALM	NE	0.9	-	CALM
02:00-03:00	-	CALM	E	1.3	-	CALM
03:00-04:00	-	CALM	ENE	1.3	-	CALM
04:00-05:00	-	CALM	-	CALM	-	CALM
05:00-06:00	-	CALM	-	CALM	-	CALM
06:00-07:00	-	CALM	-	CALM	-	CALM
07:00-08:00	ENE	0.9	-	CALM	-	CALM
08:00-09:00	ENE	0.9	ENE	0.9	-	CALM
09:00-10:00	NE	1.3	ENE	1.3	-	CALM
10:00-11:00	ENE	1.8	E	1.3	-	CALM
11:00-12:00	NE	1.3	E	1.3	NE	0.9
12:00-13:00	E	1.8	ENE	1.3	ENE	1.3
13:00-14:00	ENE	1.3	SSE	0.9	W	0.9
14:00-15:00	N	1.3	NE	1.3	N	0.9
15:00-16:00	N	0.9	WNW	1.3	NW	0.9
16:00-17:00	ENE	0.9	WNW	1.3	NW	1.3
17:00-18:00	NE	0.9	-	CALM	NW	0.9
18:00-19:00	ENE	0.9	-	CALM	-	CALM
19:00-20:00	ENE	1.3	-	CALM	-	CALM
20:00-21:00	ENE	1.3	-	CALM	-	CALM
21:00-22:00	E	1.3	-	CALM	-	CALM
22:00-23:00	E	1.3	-	CALM	-	CALM
23:00-00:00	E	0.9	-	CALM	-	CALM

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



SGS (THAILAND) LIMITED

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Technical Manager

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E 272481

Report No. : 2023-5006426-3/ 001-3 (Page 7 of 8) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)
CONTACT : 
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: 

Analysis Report

SAMPLE DESIGNATED AS : Ambient Air Quality
SAMPLING LOCATION : บ้านบางกระดาน
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : December 7-9, 2023

SAMPLING BY 

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	2.78	1.39	-	-	-
NNE	-	-	-	-	-
NE	4.17	4.17	-	-	-
ENE	8.33	11.11	-	-	-
E	1.39	8.33	-	-	-
ESE	-	-	-	-	-
SE	-	-	-	-	-
SSE	1.39	-	-	-	-
S	-	-	-	-	-
SSW	-	-	-	-	-
SW	-	-	-	-	-
WSW	-	-	-	-	-
W	1.39	-	-	-	-
WNW	-	2.78	-	-	-
NW	2.78	1.39	-	-	-
NNW	-	-	-	-	-
CALM	48.61				



SGS (THAILAND) LIMITED



Technical Manager

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E 272482

Report No. : 2023-5006426/ 001-3 (Page 8 of 8)

Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS (PUBLIC) COMPANY LIMITED (TRAT AIRPORT)

CONTACT :

ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900

Tel. 02-265-5678 E-mail:

Analysis Report

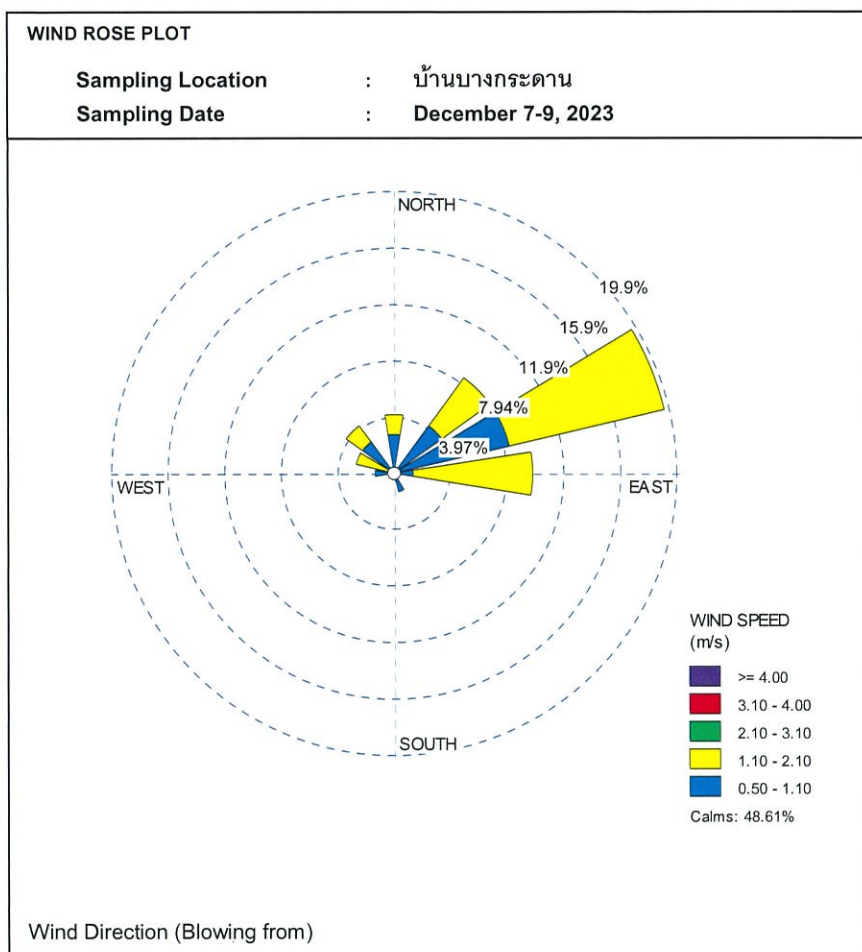
SAMPLE DESIGNATED AS : Ambient Air Quality

SAMPLING DATE : December 7-9, 2023

SAMPLING LOCATION : บ้านบางกระดาน

SAMPLING BY :

LABORATORY NAME : SGS (Thailand) Limited



SGS (THAILAND) LIMITED

Technical Manager

TY/MM/SJS/SJS

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E 272483

SGS (Thailand) Limited

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t +66 (0)2 678 18 13 f +66 (0)2 678 06 22 www.sgs.com

ระดับเสียงทั่วไป (Leq-24 hr)

Report No. : 2023-5006426-3 / 002-1 (Page 1 of 1) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE :** December 7-9, 2023
MEASUREMENT LOCATION : พื้นที่โครงการ **MEASUREMENT BY :** [REDACTED]
CALIBRATION DATA : Model CR:171B, Cirrus Research plc, Serial No. G078138,
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.7 dB(A), Post Cal. : 93.7 dB(A)
SOUND LEVEL METER NO. : Model CR:171B, Cirrus Research plc, Serial No. G078138

Time	Noise Level [dB(A)]									Standard ^{1/}
	December 7, 2023			December 8, 2023			December 9, 2023			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00-01:00	42.5	52.7	40.5	43.6	57.7	41.5	42.1	53.0	40.9	
01:00-02:00	42.3	62.8	38.6	44.3	60.7	42.0	43.7	59.3	40.9	
02:00-03:00	41.5	56.0	39.3	43.5	57.1	42.0	43.1	63.3	41.0	
03:00-04:00	44.0	61.6	39.1	44.3	62.2	41.8	43.0	55.0	40.7	
04:00-05:00	42.8	60.3	40.0	45.2	60.6	42.9	44.1	56.3	42.8	
05:00-06:00	43.5	59.4	41.7	47.5	59.0	44.3	45.3	58.9	43.3	
06:00-07:00	53.6	79.7	42.2	50.9	73.9	44.1	52.9	80.2	43.2	
07:00-08:00	51.3	73.8	41.5	50.6	71.8	42.8	51.7	76.9	42.5	
08:00-09:00	52.2	71.2	42.7	51.2	67.1	42.6	53.2	70.6	45.4	
09:00-10:00	49.9	65.5	40.4	47.7	60.0	41.7	51.5	71.5	42.9	
10:00-11:00	48.4	67.4	42.2	49.5	71.1	42.6	52.8	73.6	42.6	
11:00-12:00	56.8	70.2	46.9	51.8	72.0	42.0	53.3	80.0	41.6	
12:00-13:00	51.2	68.8	40.5	48.8	63.7	42.2	49.1	67.0	41.6	
13:00-14:00	60.9	77.5	46.6	57.8	76.5	43.6	60.3	83.7	41.9	
14:00-15:00	47.2	79.7	28.3	62.4	85.6	41.8	63.7	80.2	43.7	
15:00-16:00	52.9	87.0	47.5	48.6	65.6	41.0	52.7	68.9	44.6	
16:00-17:00	49.2	67.6	47.0	50.2	70.6	41.7	52.0	73.2	42.8	
17:00-18:00	59.8	75.2	47.1	64.4	86.6	47.0	62.9	84.8	45.6	
18:00-19:00	49.9	69.3	46.9	51.5	69.6	44.5	51.4	70.1	44.6	
19:00-20:00	51.7	83.8	45.0	49.6	69.9	44.1	49.8	70.7	45.2	
20:00-21:00	47.5	71.7	42.9	44.9	61.2	42.8	47.0	67.5	44.2	
21:00-22:00	43.8	62.2	41.8	44.1	58.6	42.6	45.2	54.9	43.9	
22:00-23:00	45.6	69.8	41.5	43.6	58.5	41.7	44.6	62.3	42.3	
23:00-00:00	48.7	75.4	41.8	43.9	59.9	41.3	46.9	69.2	42.1	
Leq 24 hrs	52.6	-	-	54.3	-	-	54.9	-	-	≤ 70
Ldn	55.5	-	-	56.1	-	-	56.7	-	-	-
Lmax	-	87.0	-	-	86.6	-	-	84.8	-	≤ 115

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



SGS (THAILAND) LIMITED

Technical Manager

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E 272484

Report No. : 2023-5006426-3 / 002-2 (Page 1 of 1) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE:** December 7-9, 2023
MEASUREMENT LOCATION : บ้านท่าโสม **MEASUREMENT BY** [REDACTED]
CALIBRATION DATA : Model CR:171B, Cirrus Research plc, Serial No. G078138,
 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. G078054

Time	Noise Level [dB(A)]									Standard ^{1/}
	December 7, 2023			December 8, 2023			December 9, 2023			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00-01:00	50.7	63.1	48.1	49.3	56.7	48.0	50.7	63.5	49.1	
01:00-02:00	49.1	64.5	44.6	50.3	70.9	48.0	50.2	66.8	48.0	
02:00-03:00	49.9	57.7	46.4	49.2	61.3	47.9	49.0	56.0	47.6	
03:00-04:00	47.4	61.5	42.9	48.9	58.7	47.4	48.9	64.8	47.2	
04:00-05:00	49.1	56.3	47.0	48.8	57.0	46.9	49.7	67.4	47.8	
05:00-06:00	51.0	59.0	48.9	48.6	58.4	46.7	50.3	61.4	47.9	
06:00-07:00	51.6	65.5	45.3	52.4	71.0	47.8	52.3	61.7	47.5	
07:00-08:00	52.7	68.4	46.4	52.8	67.5	47.9	52.9	66.7	47.1	
08:00-09:00	50.4	66.2	44.8	50.7	67.2	46.0	51.2	68.1	45.1	
09:00-10:00	51.0	69.8	45.1	49.9	63.4	46.3	51.4	73.3	45.0	
10:00-11:00	50.9	70.5	45.9	52.0	75.1	46.1	52.6	75.7	45.9	
11:00-12:00	51.2	71.6	46.5	51.6	68.7	46.2	49.8	67.1	45.4	
12:00-13:00	51.0	66.0	47.1	51.2	72.7	46.1	50.0	65.0	45.8	
13:00-14:00	52.6	68.3	46.8	52.4	69.1	47.7	49.8	63.7	45.8	
14:00-15:00	53.3	71.3	47.1	54.2	79.7	49.7	49.4	63.2	45.8	
15:00-16:00	51.3	63.9	47.0	54.0	69.5	49.6	51.8	73.8	46.2	
16:00-17:00	52.4	73.4	47.1	52.6	69.3	47.1	50.5	63.7	45.8	
17:00-18:00	51.8	67.1	46.5	52.2	70.8	46.4	55.2	78.1	46.4	
18:00-19:00	50.1	66.7	46.3	51.7	68.8	47.4	52.1	69.3	47.4	
19:00-20:00	51.9	74.6	47.0	59.3	79.2	47.4	52.3	68.7	48.5	
20:00-21:00	53.4	80.2	46.8	51.0	67.6	47.9	50.5	63.8	48.5	
21:00-22:00	50.0	67.3	47.5	52.3	72.8	49.1	50.3	61.1	48.6	
22:00-23:00	50.3	64.5	47.6	50.5	64.3	48.7	49.9	68.7	47.3	
23:00-00:00	49.9	64.1	48.1	49.9	63.2	48.3	48.4	58.3	47.0	
Leq 24 hrs	51.2	-	-	52.4	-	-	51.1	-	-	≤ 70
Ldn	56.7	-	-	57.0	-	-	56.8	-	-	-
Lmax	-	80.2	-	-	79.7	-	-	78.1	-	< 115

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



Technical Manager

TY/MM/SJS/SJS

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E 272485

Report No. : 2023-5006426-3 / 002-3 (Page 1 of 1) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Noise Level **MEASUREMENT DATE:** December 7-9, 2023
SAMPLING LOCATION : บ้านบางกระดาน **MEASUREMENT BY** [REDACTED]
CALIBRATION DATA : Model CR:171B, Cirrus Research plc, Serial No. G078138,
 Calibration Value Reference: 94.0 dB(A), Pre Cal. : 93.7 dB(A), Post Cal. : 93.7 dB(A)
SOUND LEVEL METER NO. : Model CR:171B, Cirrus Research plc, Serial No. G078137

Time	Noise Level [dB(A)]									Standard ^{1/}
	December 7, 2023			December 8, 2023			December 9, 2023			
	Leq	Lmax	L90	Leq	Lmax	L90	Leq	Lmax	L90	
00:00-01:00	53.1	79.5	38.5	44.4	62.6	38.8	48.0	74.3	39.5	
01:00-02:00	45.8	65.5	38.7	42.3	59.5	39.4	46.0	66.1	39.6	
02:00-03:00	45.6	64.4	39.4	42.4	57.5	38.3	45.9	66.3	39.1	
03:00-04:00	42.1	58.4	37.9	42.5	62.1	35.9	47.9	74.9	38.3	
04:00-05:00	45.1	64.3	37.0	45.2	64.6	35.9	45.1	62.6	37.1	
05:00-06:00	49.3	70.2	37.5	48.0	64.2	37.1	48.9	70.2	37.6	
06:00-07:00	56.6	76.6	42.7	55.7	78.6	42.4	53.9	70.1	43.0	
07:00-08:00	56.2	76.0	45.7	56.0	77.9	46.1	54.4	69.8	43.0	
08:00-09:00	57.8	79.7	43.5	55.5	73.9	44.6	55.0	75.1	41.7	
09:00-10:00	54.3	70.8	44.8	53.5	74.0	42.3	53.9	72.6	40.7	
10:00-11:00	55.4	77.0	42.5	57.1	76.9	42.0	55.3	76.6	40.7	
11:00-12:00	55.1	76.7	43.1	55.8	82.2	40.6	54.4	74.1	40.4	
12:00-13:00	55.1	71.3	41.9	53.6	72.1	41.2	54.1	74.4	39.7	
13:00-14:00	54.7	72.9	43.4	55.4	75.6	42.6	54.7	77.4	41.0	
14:00-15:00	54.6	70.8	43.8	53.5	68.8	40.6	53.8	70.6	41.6	
15:00-16:00	56.0	78.4	42.3	54.7	75.4	41.8	53.3	71.6	40.6	
16:00-17:00	54.9	73.6	43.9	58.5	86.1	43.8	55.1	76.0	43.8	
17:00-18:00	55.7	75.2	45.2	55.0	71.6	44.5	54.7	75.5	43.7	
18:00-19:00	53.2	74.8	41.2	54.0	74.8	43.3	52.8	68.9	41.8	
19:00-20:00	54.7	79.1	44.2	51.6	69.3	44.2	55.7	80.5	44.3	
20:00-21:00	57.9	84.3	42.0	50.7	73.8	41.6	50.0	70.9	43.2	
21:00-22:00	48.5	67.7	40.4	47.6	68.2	39.7	49.7	71.3	41.1	
22:00-23:00	47.3	70.0	39.2	46.6	67.4	40.7	50.5	78.2	40.9	
23:00-00:00	45.8	66.1	38.2	47.0	64.5	39.9	48.6	74.7	40.8	
Leq 24 hrs	54.1	-	-	53.4	-	-	52.8	-	-	≤ 70
Ldn	57.9	-	-	56.6	-	-	56.7	-	-	-
Lmax	-	84.3	-	-	86.1	-	-	80.5	-	≤ 115

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



Technical Manager

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E 272486

ความสั่นสะเทือน

Report No. : 2023-5006426-3 / 003-1 (Page 1 of 2) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Vibration **SAMPLING DATE :** December 7-9, 2023
SAMPLING LOCATION : ขอบสนามบินตำแหน่งที่เครื่องบิน
 และพื้นทางวิ่งขณะบินลง (UTM 48 P 208033 E, 1358171 N) **SAMPLING BY :** [REDACTED]

Date	Time	Transverse			Vertical			Longitudinal		
		PPV (mm/s)	Frequency (Hz)	PD (mm)	PPV (mm/s)	Frequency (Hz)	PD (mm)	PPV (mm/s)	Frequency (Hz)	PD (mm)
December 7, 2023	-	<0.254	N/A	N/A	<0.254	N/A	N/A	<0.254	N/A	N/A
December 8, 2023	-	<0.254	N/A	N/A	<0.254	N/A	N/A	<0.254	N/A	N/A
December 9, 2023	-	<0.254	N/A	N/A	<0.254	N/A	N/A	<0.254	N/A	N/A
Standard^{1/}	-	-	-	-	-	-	-	-	-	-

Remarks : - N/A = Not Applicable
 - PPV = Peak Particle Velocity
 - PD = Peak Displacement
Source : ^{1/} Notification of the National Environmental Board. No. 37, 2553 (B.E. 2010).



Technical Manager



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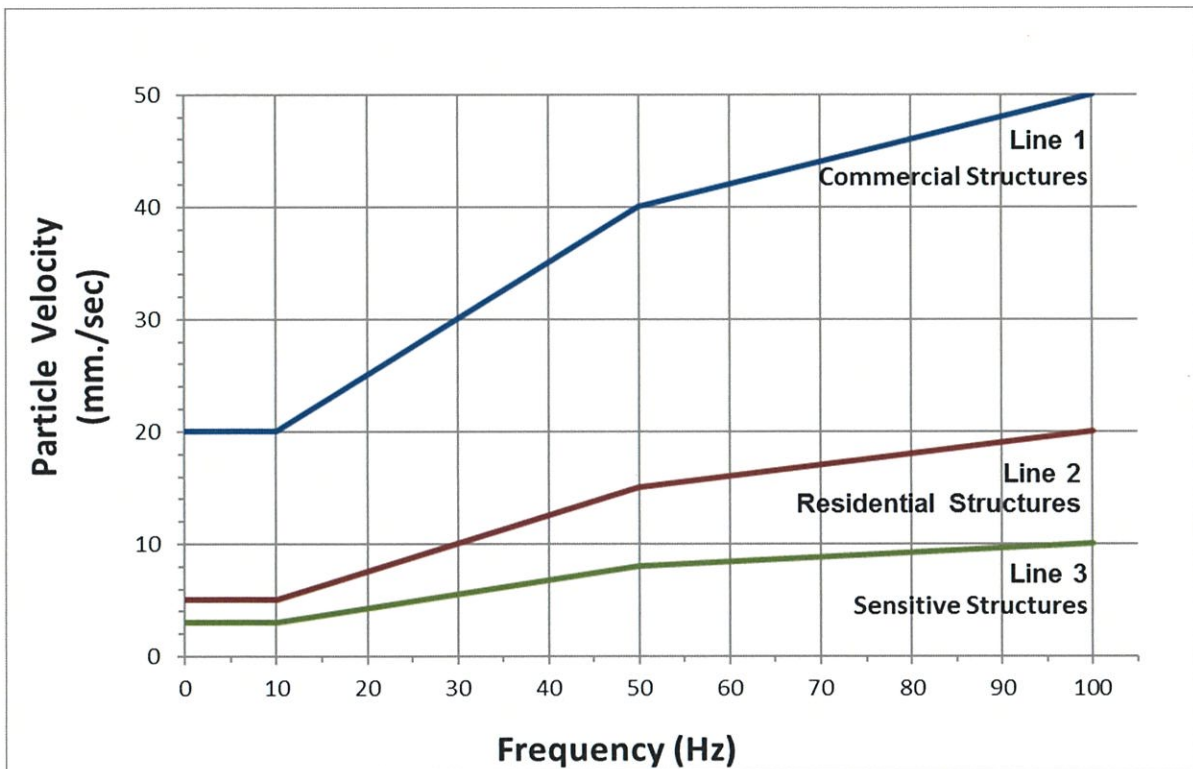
E 272487

Report No. : 2023-5006426-3 / 003-1 (Page 2 of 2) Issued date : December 26, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Vibration **SAMPLING DATE :** December 7-9, 2023
SAMPLING LOCATION : ขอบสนามบินตำแหน่งที่เครื่องบิน
SAMPLING BY : [REDACTED]
 และพื้นที่ทางวิ่งขณะบินลง (UTM 48 P 208033 E, 1358171 N)



- หมายเหตุ :**
- เส้นที่ 1 = อาคารที่ใช้หรือออกแบบเพื่อใช้ในทางอุตสาหกรรมและพาณิชย์กรรม
 - เส้นที่ 2 = อาคารที่พักอาศัยหรือออกแบบเพื่อใช้ในการอยู่อาศัย
 - เส้นที่ 3 = โครงสร้างอาคารที่สามารถรับแรงสั่นสะเทือนได้น้อย
 - สำหรับผลการตรวจวัดแรงสั่นสะเทือนระหว่างวันที่ 7-9 ธันวาคม 2566 ไม่พบเหตุการณ์ (PPV < 0.254 mm/s)
- ที่มา :**
- ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ เรื่อง กำหนดมาตรฐานความสั่นสะเทือนเพื่อป้องกันผลกระทบต่ออาคาร พ.ศ. 2553 ประกาศ ณ วันที่ 26 เมษายน 2553 ตีพิมพ์ในราชกิจจานุเบกษา ฉบับที่ 37 เล่มที่ 127 ตอนพิเศษ 69 ง วันที่ 2 มิถุนายน พ.ศ. 2553
 - มาตรฐานระดับแรงสั่นสะเทือนสำหรับอาคารที่ไวต่อผลกระทบตามมาตรฐานประเทศเยอรมนี DIN 4150

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E 272488

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คุณภาพน้ำผิวดิน

Report No. : 2023-5006426-2 / 007-1 (Page 1 of 1)
Issued date: October 9, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality Analysis
SAMPLING LOCATION : ห้วยวังปลาต้นน้ำก่อนผ่านพื้นที่โครงการ
 (UTM 48P 0209006E, 1358715N)
 Trat Airport, Trat Province
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : September 21, 2023
SAMPLING TIME : 16:30 hr.
SAMPLING BY : [REDACTED]

Parameter	Unit	Method	Analytical Value	Standard ^{1/}
Temperature	°C	APHA, 2550 B	26.7	-
pH	-	APHA, 4500-H ⁺ B	7.9	5.0-9.0
Turbidity	NTU	APHA, 2130 B	19	-
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	7.2	Not less than 4.0
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	2.0	Not more than 2.0
Suspended Solids (SS)	mg/l	APHA, 2540 D	18	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	6	-
Chloride (Cl)	mg/l	APHA, 4500-Cl D	2	-
Nitrate (as N)	mg/l	APHA, 4500-NO ₃ E	0.025	Not more than 5.0
Total Coliform Bacteria	MPN/100ml	APHA, 9221 B	8,400	Not more than 20,000
Fecal Coliform Bacteria	MPN/100ml	APHA, 9221 E	2,400	Not more than 4,000

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

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

TY/WP/SJS/SJS

SGS (THAILAND) LIMITED


[REDACTED]
 Technical Manager

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Report No. : 2023-5006426-2 / 007-2 (Page 1 of 1)

Issued date: October 9, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality Analysis
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดก่อนผ่านพื้นที่โครงการ)
 (UTM 48P 0208641E, 1358442N)
 Trat Airport, Trat Province
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : September 21, 2023
SAMPLING TIME : 15:50 hr.
SAMPLING BY : [REDACTED]

Parameter	Unit	Method	Analytical Value	Standard ^{1/}
Temperature	°C	APHA, 2550 B	26.9	-
pH	-	APHA, 4500-H ⁺ B	8.1	5.0-9.0
Turbidity	NTU	APHA, 2130 B	35	-
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	8.1	Not less than 4.0
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	2.0	Not more than 2.0
Suspended Solids (SS)	mg/l	APHA, 2540 D	36	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	6	-
Chloride (Cl)	mg/l	APHA, 4500-Cl D	3	-
Nitrate (as N)	mg/l	APHA, 4500-NO ₃ E	0.476	Not more than 5.0
Total Coliform Bacteria	MPN/100ml	APHA, 9221 B	4,300	Not more than 20,000
Fecal Coliform Bacteria	MPN/100ml	APHA, 9221 E	790	Not more than 4,000

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

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



Technical Manager



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Report No. : 2023-5006426-2 / 007-3 (Page 1 of 1)

Issued date: October 9, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality Analysis
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดหลังผ่านพื้นที่โครงการ)
 (UTM 48P 0208707E, 1359087N)
 Trat Airport, Trat Province
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : September 21, 2023
SAMPLING TIME : 10:35 hr.
SAMPLING BY : [REDACTED]

Parameter	Unit	Method	Analytical Value	Standard ^{1/}
Temperature	°C	APHA, 2550 B	28.9	-
pH	-	APHA, 4500-H ⁺ B	8.3	5.0-9.0
Turbidity	NTU	APHA, 2130 B	4.3	-
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	8.7	Not less than 4.0
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	1.1	Not more than 2.0
Suspended Solids (SS)	mg/l	APHA, 2540 D	<2.5	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	8	-
Chloride (Cl)	mg/l	APHA, 4500-Cl D	3	-
Nitrate (as N)	mg/l	APHA, 4500-NO ₃ E	0.319	Not more than 5.0
Total Coliform Bacteria	MPN/100ml	APHA, 9221 B	1,700	Not more than 20,000
Fecal Coliform Bacteria	MPN/100ml	APHA, 9221 E	140	Not more than 4,000

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

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



SGS (THAILAND) LIMITED

[REDACTED]
 Technical Manager

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Report No. : 2023-5006426-2 / 007-4 (Page 1 of 1)

Issued date: October 9, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality Analysis
SAMPLING LOCATION : ห้วยชุมแสง (ในจุดก่อนผ่านพื้นที่โครงการ)
 (UTM 48P 0207848E, 1357804N)
LABORATORY NAME : SGS (Thailand) Limited

SAMPLING DATE : September 21, 2023

SAMPLING TIME : 14:50 hr.

SAMPLING BY [REDACTED]

Parameter	Unit	Method	Analytical Value	Standard ^{1/}
Temperature	°C	APHA, 2550 B	26.3	-
pH	-	APHA, 4500-H ⁺ B	8.3	5.0-9.0
Turbidity	NTU	APHA, 2130 B	25	-
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	7.9	Not less than 4.0
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	2.0	Not more than 2.0
Suspended Solids (SS)	mg/l	APHA, 2540 D	22	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	5	-
Chloride (Cl)	mg/l	APHA, 4500-Cl D	2	-
Nitrate (as N)	mg/l	APHA, 4500-NO ₃ E	0.031	Not more than 5.0
Total Coliform Bacteria	MPN/100ml	APHA, 9221 B	7,000	Not more than 20,000
Fecal Coliform Bacteria	MPN/100ml	APHA, 9221 E	1,500	Not more than 4,000

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

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



Technical Manager

SGS (THAILAND) LIMITED



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E 270038

Report No. : 2023-5006426-2 / 007-5 (Page 1 of 1) **Issued date:** October 9, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Surface Water Quality Analysis
SAMPLING LOCATION : ห้วยชุมแสง (ในจุดหลังผ่านพื้นที่โครงการ)
 (UTM 48P 0207638E, 1357929N)
 Trat Airport, Trat Province
LABORATORY NAME : SGS (Thailand) Limited
SAMPLING DATE : September 22, 2023
SAMPLING TIME : 10:15 hr.
SAMPLING BY : [REDACTED]

Parameter	Unit	Method	Analytical Value	Standard ^{1/}
Temperature	°C	APHA, 2550 B	28.0	-
pH	-	APHA, 4500-H ⁺ B	7.5	5.0-9.0
Turbidity	NTU	APHA, 2130 B	7.4	-
Dissolved Oxygen (DO)	mg/l	APHA, 4500-O C	8.4	Not less than 4.0
Biochemical Oxygen Demand (BOD)	mg/l	APHA, 5210 B	1.0	Not more than 2.0
Suspended Solids (SS)	mg/l	APHA, 2540 D	4.6	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	10	-
Chloride (Cl)	mg/l	APHA, 4500-Cl D	3	-
Nitrate (as N)	mg/l	APHA, 4500-NO ₃ E	0.038	Not more than 5.0
Total Coliform Bacteria	MPN/100ml	APHA, 9221 B	220	Not more than 20,000
Fecal Coliform Bacteria	MPN/100ml	APHA, 9221 E	14	Not more than 4,000

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

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



Technical Manager

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Report No. : 2023-5006426-2 / 004-1 (Page 1 of 1)
Issued date : October 9, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)

CONTACT :
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900

Tel. 02-265-5678 **E-mail:**

Analysis Report

SAMPLE DESIGNATED AS : Groundwater Quality Analysis

SAMPLING DATE : September 21, 2023

SAMPLING LOCATION : บ่อบาดาลโรงกรองน้ำดิบ
(UTM 48P 208528E, 1358811N)
Trat Airport, Trat Province

SAMPLING TIME : 10:05 hr.

SAMPLING BY :
LABORATORY NAME : SGS (Thailand) Limited

Parameter	Unit	Method	Analytical Value	Standard ^{1/}	
				Suitable Value	Maximum Allowable
pH	-	APHA, 4500-H ⁺ B	7.1	7.0-8.5	6.5-9.2
Color	Pt.Co	APHA, 2120 C	2	5	15
Turbidity	NTU	APHA, 2130 B	3.3	5	20
Suspended Solids (SS)	mg/l	APHA, 2540 D	<2.5	-	-
Conductivity	µs/cm	APHA, 2510 B	321	-	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	135	Not more than 300	500
Chloride (Cl)	mg/l	APHA, 4500-Cl D	4	Not more than 250	600
Total Kjeldahl Nitrogen (TKN)	mg/l	APHA, 4500 N _{org} B	1.90	-	-
Sulfate (SO ₄)	mg/l	APHA, 4500-SO ₄ E	4	Not more than 200	250
Nitrate (NO ₃)	mg/l	APHA, 4110 B	0.097	Not more than 45	45
Iron (Fe)	mg/l	APHA, 3125 B	0.281	Not more than 0.5	1.0
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	2.2	Less than 2.2	-
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 E	<1.1	-	-

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

Source : ^{1/} The groundwater from this source will be improved the quality before using in the airport.
Notification of the Ministry of Natural Resources and Environment, B.E. 2551 (2008), published in the Royal Government Gazette, Vol. 125, Special Part 85D, dated May 21, B.E. 2551 (2008).


SGS (THAILAND) LIMITED

TY/WP/SJS/SJS

Technical Manager

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E 270029

SGS (Thailand) Limited

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Member of the SGS Group

Report No. : 2023-5006426-2 / 004-2 (Page 1 of 1)

Issued date : October 9, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)

CONTACT :

ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900

Tel. 02-265-5678 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Groundwater Quality Analysis

SAMPLING DATE : September 21, 2023

SAMPLING LOCATION : บ้านชุมแสง

SAMPLING TIME : 17:20 hr.

(UTM 48P 0207420E, 1359494N)

Trat Airport, Trat Province

SAMPLING BY

LABORATORY NAME : SGS (Thailand) Limited

Parameter	Unit	Method	Analytical Value	Standard ^{1/}	
				Suitable Value	Maximum Allowable
pH	-	APHA, 4500-H ⁺ B	7.1	7.0-8.5	6.5-9.2
Color	Pt.Co	APHA, 2120 C	9	5	15
Turbidity	NTU	APHA, 2130 B	9.0	5	20
Suspended Solids (SS)	mg/l	APHA, 2540 D	<2.5	-	-
Conductivity	µs/cm	APHA, 2510 B	160	-	-
Total Hardness (as CaCO ₃)	mg/l	APHA, 2340 C	62	Not more than 300	500
Chloride (Cl)	mg/l	APHA, 4500-Cl D	3	Not more than 250	600
Total Kjeldahl Nitrogen (TKN)	mg/l	APHA, 4500 N _{org} B	<1.00	-	-
Sulfate (SO ₄)	mg/l	APHA, 4500-SO ₄ E	1	Not more than 200	250
Nitrate (NO ₃)	mg/l	APHA, 4110 B	0.080	Not more than 45	45
Iron (Fe)	mg/l	APHA, 3125 B	1.096	Not more than 0.5	1.0
Total Coliform Bacteria	MPN/100 ml	APHA, 9221 B	2.2	Less than 2.2	-
Fecal Coliform Bacteria	MPN/100 ml	APHA, 9221 E	Less than 1.1	-	-

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

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



SGS (THAILAND) LIMITED

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เพลงก็ตอนพีช

Report No. : 2023-5006426-2 / 008-1 (Page 1 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)

CONTACT

ADDRESS

: 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900

Tel. 02-265-5678 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification

SAMPLING DATE : September 21, 2023

SAMPLING LOCATION : ห้วยวังปลาต้นน้ำก่อนผ่านพื้นที่โครงการ

SAMPLING TIME : 16:30 hr.

COORDINATE : UTM 48P 0209006E, 1358715N

SAMPLING BY :

Scientific Classification	Phytoplankton (Cell/m ³)
Division Cyanophyta	
Class Cyanophyceae (Blue - Green Algae)	
Order Chroococcales	
Family Chroococcaceae	
<i>Chroococcus minutus</i>	13,375
<i>Merismopedia convoluta</i>	21,528
<i>Merismopedia minima</i>	56,767
Order Nostocales	
Family Oscillatoriaceae	
<i>Oscillatoria limnetica</i>	30,498
Family Nostocaceae	
<i>Anabaena affinis</i>	96,457
Division Chlorophyta	
Class Chlorophyceae (Green algae)	
Order Volvocales	
Family Volvocaceae	
<i>Volvox tertius</i>	42,465
Family Botryococcaceae	
<i>Botryococcus braunii</i>	30,050
Family Oocystaceae	
<i>Dictyosphaerium ehrenbergianum</i>	53,473
<i>Oocystis elliptica</i>	36,994
<i>Tetraedron caudatum</i>	24,356
<i>Tetraedron gracile</i>	47,038
Family Scenedesmaceae	
<i>Actinastrum gracillimum</i>	15,249
<i>Kirchneriella contorta</i>	34,983

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Report No. : 2023-5006426-2 / 008-1 (Page 2 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification
SAMPLING LOCATION : ห้วยวังปลาต้นน้ำก่อนผ่านพื้นที่โครงการ
COORDINATE : UTM 48P 0209006E, 1358715N
SAMPLING DATE : September 21, 2023
SAMPLING TIME : 16:30 hr.
SAMPLING BY : [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Chlorophyta (cont'd)	
Class Chlorophyceae (Green algae)	
Order Chlorococcales	
Family Hydrodictyaceae	
<i>Pediastrum duplex</i>	67,302
<i>Pediastrum simplex</i>	23,032
Family Coelastraceae	
<i>Coelastrum astroideum</i>	71,354
<i>Coelastrum cambricum</i>	-
Order Oedogoniales	
Family Oedogoniaceae	
<i>Oedogonium sp.</i>	32,343
Order Zygnematales	
Family Zygnemataceae	
<i>Mougeotia scalaris</i>	11,271
Family Desmidiaceae	
<i>Closterium acerosum</i>	-
<i>Staurastrum tetracerum</i>	21,562
Class Euglenophyceae (Euglenoids)	
Order Euglenales	
Family Eugrenaceae	
<i>Eugrena acus</i>	37,734
<i>Phacus angulatus</i>	53,016
<i>Phacus hamatus</i>	-
<i>Trachelomonas amata</i>	-
<i>Trachelomonas hispida</i>	26,953
<i>Trachelomonas ovalis</i>	69,096

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Report No. : 2023-5006426-2 / 008-1 (Page 3 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification
SAMPLING LOCATION : ห้วยวังปลาต้นน้ำก่อนผ่านพื้นที่โครงการ
COORDINATE : UTM 48P 0209006E, 1358715N
SAMPLING DATE : September 21, 2023
SAMPLING TIME : 16:30 hr.
SAMPLING BY : [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Chlorophyta (cont'd)	
Class Bacillariophyceae (Diatoms)	
Order Biddulphiales	
Family Thalassiosiraceae	
<i>Cyclotella meneghiniana</i>	-
Family Aulacoseiraceae	
<i>Aulacoseira granulate</i>	112,543
Order Bacillariales (Pennate diatoms)	
Suborder Fragiariineae	
Family Fragilariaceae	
<i>Fragilaria</i> sp.	55,681
Suborder Bacillaiineae	
Family Achnantheaceae	
<i>Achnanthes</i> sp.	-
Family Cymbellaceae	
<i>Cymbella tumida</i>	18,830
Family Naviculaceae	
<i>Gyrosigma spencerii</i>	56,796
Family Bacillariaceae	
<i>Nitzschia</i> sp.	29,871
Family Surirellaceae	
<i>Stenopterobia</i> sp.	21,675

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Report No. : 2023-5006426-2 / 008-2 (Page 1 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดก่อนผ่านพื้นที่โครงการ) **SAMPLING TIME :** 15:50 hr.
COORDINATE : UTM 48P 0208641E, 1358442N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Cyanophyta	
Class Cyanophyceae (Blue - Green Algae)	
Order Chroococcales	
Family Chroococcaceae	
<i>Chroococcus minutus</i>	55,991
<i>Merismopedia convoluta</i>	40,955
<i>Merismopedia minima</i>	72,430
Order Nostocales	
Family Oscillatoriaceae	
<i>Oscillatoria limnetica</i>	50,873
Family Nostocaceae	
<i>Anabaena affinis</i>	15,755
Division Chlorophyta	
Class Chlorophyceae (Green algae)	
Order Volvocales	
Family Volvocaceae	
<i>Volvox tertius</i>	11,453
Family Botryococcaceae	
<i>Botryococcus braunii</i>	23,108
Family Oocystaceae	
<i>Dictyosphaerium ehrenbergianum</i>	86,168
<i>Oocystis elliptica</i>	46,098
<i>Tetraedron caudatum</i>	35,963
<i>Tetraedron gracile</i>	25,001
Family Scenedesmaceae	
<i>Actinastrum gracillimum</i>	57,090
<i>Kirchneriella contorta</i>	53,447

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Report No. : 2023-5006426-2 / 008-2 (Page 2 of 4) Issued date : November 2, 2023

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CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดก่อนผ่านพื้นที่โครงการ) **SAMPLING TIME :** 15:50 hr.
COORDINATE : UTM 48P 0208641E, 1358442N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Chlorophyta (cont'd)	
Class Chlorophyceae (Green algae)	
Order Chlorococcales	
Family Hydrodictyaceae	
<i>Pediastrum duplex</i>	43,702
<i>Pediastrum simplex</i>	69,195
Family Coelastraceae	
<i>Coelastrum astroideum</i>	85,484
<i>Coelastrum cambricum</i>	47,221
Order Oedogoniales	
Family Oedogoniaceae	
<i>Oedogonium sp.</i>	90,572
Order Zygnematales	
Family Zygnemataceae	
<i>Mougeotia scalaris</i>	13,448
Family Desmidiaceae	
<i>Closterium acerosum</i>	26,246
<i>Staurastrum tetracerum</i>	29,151
Class Euglenophyceae (Euglenoids)	
Order Euglenales	
Family Eugrenaceae	
<i>Eugrena acus</i>	24,797
<i>Phacus angulatus</i>	-
<i>Phacus hamatus</i>	-
<i>Trachelomonas amata</i>	65,704
<i>Trachelomonas hispida</i>	50,294
<i>Trachelomonas ovalis</i>	81,358

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Report No. : 2023-5006426-2 / 008-2 (Page 3 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดก่อนผ่านพื้นที่โครงการ) **SAMPLING TIME :** 15:50 hr.
COORDINATE : UTM 48P 0208641E, 1358442N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Chlorophyta (cont'd)	
Class Bacillariophyceae (Diatoms)	
Order Biddulphiales	
Family Thalassiosiraceae	
<i>Cyclotella meneghiniana</i>	40,135
Family Aulacoseiraceae	
<i>Aulacoseira granulate</i>	19,975
Order Bacillariales (Pennate diatoms)	
Suborder Fragiariineae	
Family Fragilariaceae	
<i>Fragilaria sp.</i>	151,420
Suborder Bacillaiinaeae	
Family Achnantheaceae	
<i>Achnanthes sp.</i>	143,948
Family Cymbellaceae	
<i>Cymbella tumida</i>	59,670
Family Naviculaceae	
<i>Gyrosigma spencerii</i>	69,870
Family Bacillariaceae	
<i>Nitzschia sp.</i>	92,117
Family Surirellaceae	
<i>Stenopterobia sp.</i>	94,352

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Report No. : 2023-5006426-2 / 008-2 (Page 4 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดก่อนผ่านพื้นที่โครงการ) **SAMPLING TIME :** 15:50 hr.
COORDINATE : UTM 48P 0208641E, 1358442N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Chromophyta	
Class Chrysophyceae	
Order Ochromonadales	
Family Dinobryaceae	
<i>Dinobryon sertularia</i>	84,383
Class Xanthophyceae (Yellow - green algae)	
Order Mischococcales	
Family Scidiaceae	
<i>Centritractus belanophorus</i>	100,252
Class Dinophyceae (Dinoflagellates)	
Order Peridiniales	
Family Peridiniaceae	
<i>Peridinium cunningonii</i>	-
Total Species of Phytoplankton (Species)	35
Total Density of Phytoplankton (Cell/m³)	2,057,629
Species Richness Index^{1/}	2.34
Biodiversity Index^{2/}	3.40
Evenness Index^{3/}	0.96

Remarks : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF (APHA, 10200F)

^{1/} The species richness was calculated by using the Margalef's Index.

^{2/} The biodiversity index was calculated by using the Shannon-Wiener's Index.

^{3/} The evenness index was calculated by using the Pielou's Index.

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Technical Manager

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E 270047

Report No. : 2023-5006426-2 / 008-3 (Page 1 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:35 hr.
COORDINATE : UTM 48P 0208707E, 1359087N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Cyanophyta	
Class Cyanophyceae (Blue - Green Algae)	
Order Chroococcales	
Family Chroococcaceae	
<i>Chroococcus minutus</i>	57,302
<i>Merismopedia convoluta</i>	16,527
<i>Merismopedia minima</i>	78,861
Order Nostocales	
Family Oscillatoriaceae	
<i>Oscillatoria limnetica</i>	75,185
Family Nostocaceae	
<i>Anabaena affinis</i>	70,768
Division Chlorophyta	
Class Chlorophyceae (Green algae)	
Order Volvocales	
Family Volvocaceae	
<i>Volvox tertius</i>	51,707
Family Botryococcaceae	
<i>Botryococcus braunii</i>	77,318
Family Oocystaceae	
<i>Dictyosphaerium ehrenbergianum</i>	28,350
<i>Oocystis elliptica</i>	50,374
<i>Tetraedron caudatum</i>	65,325
<i>Tetraedron gracile</i>	75,361
Family Scenedesmaceae	
<i>Actinastrum gracillimum</i>	43,877
<i>Kirchneriella contorta</i>	121,723

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Report No. : 2023-5006426-2 / 008-3 (Page 2 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:35 hr.
COORDINATE : UTM 48P 0208707E, 1359087N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Chlorophyta (cont'd)	
Class Chlorophyceae (Green algae)	
Order Chlorococcales	
Family Hydrodictyaceae	
<i>Pediastrum duplex</i>	57,449
<i>Pediastrum simplex</i>	119,683
Family Coelastraceae	
<i>Coelastrum astroideum</i>	58,663
<i>Coelastrum cambricum</i>	89,317
Order Oedogoniales	
Family Oedogoniaceae	
<i>Oedogonium sp.</i>	22,185
Order Zygnematales	
Family Zygnemataceae	
<i>Mougeotia scalaris</i>	37,961
Family Desmidiaceae	
<i>Closterium acerosum</i>	55,817
<i>Staurastrum tetracerum</i>	36,975
Class Euglenophyceae (Euglenoids)	
Order Euglenales	
Family Eugrenaceae	
<i>Eugrena acus</i>	18,734
<i>Phacus angulatus</i>	-
<i>Phacus hamatus</i>	17,780
<i>Trachelomonas amata</i>	33,031
<i>Trachelomonas hispida</i>	182,241
<i>Trachelomonas ovalis</i>	77,601

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Report No. : 2023-5006426-2 / 008-3 (Page 3 of 4) Issued date : November 2, 2023

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CONTACT : [REDACTED]
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 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:35 hr.
COORDINATE : UTM 48P 0208707E, 1359087N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Scientific Classification	Phytoplankton (Cell/m ³)
Division Chlorophyta (cont'd)	
Class Bacillariophyceae (Diatoms)	
Order Biddulphiales	
Family Thalassiosiraceae	
<i>Cyclotella meneghiniana</i>	102,691
Family Aulacoseiraceae	
<i>Aulacoseira granulate</i>	42,525
Order Bacillariales (Pennate diatoms)	
Suborder Fragiariineae	
Family Fragilariaceae	
<i>Fragilaria sp.</i>	74,917
Suborder Bacillaiinaeae	
Family Achnanthaceae	
<i>Achnanthes sp.</i>	100,206
Family Cymbellaceae	
<i>Cymbella tumida</i>	67,439
Family Naviculaceae	
<i>Gyrosigma spencerii</i>	81,574
Family Bacillariaceae	
<i>Nitzschia sp.</i>	44,150
Family Surirellaceae	
<i>Stenopterobia sp.</i>	122,463

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Report No. : 2023-5006426-2 / 008-3 (Page 4 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:35 hr.
COORDINATE : UTM 48P 0208707E, 1359087N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Chromophyta	
Class Chrysophyceae	
Order Ochromonadales	
Family Dinobryaceae	
<i>Dinobryon sertularia</i>	85,973
Class Xanthophyceae (Yellow - green algae)	
Order Mischococcales	
Family Scidiaceae	
<i>Centritractus belanophorus</i>	90,696
Class Dinophyceae (Dinoflagellates)	
Order Peridinales	
Family Peridiniaceae	
<i>Peridinium cunningonii</i>	38,230
Total Species of Phytoplankton (Species)	37
Total Density of Phytoplankton (Cell/m³)	2,470,978
Species Richness Index^{1/}	2.45
Biodiversity Index^{2/}	3.48
Evenness Index^{3/}	0.96

Remarks : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF (APHA, 10200F)

^{1/} The species richness was calculated by using the Margalef's Index.

^{2/} The biodiversity index was calculated by using the Shannon-Wiener's Index.

^{3/} The evenness index was calculated by using the Pielou's Index.

TY/WP/SJS/SJS



Technical Manager

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E 270051

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Member of the SGS Group

Report No. : 2023-5006426-2 / 008-4 (Page 1 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยชุมแสง (ในจุดก่อนผ่านพื้นที่โครงการ) **SAMPLING TIME :** 14:50 hr
COORDINATE : UTM 48P 0207848E, 1357804N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Cyanophyta	
Class Cyanophyceae (Blue - Green Algae)	
Order Chroococcales	
Family Chroococcaceae	
<i>Chroococcus minutus</i>	31,777
<i>Merismopedia convoluta</i>	46,512
<i>Merismopedia minima</i>	49,956
Order Nostocales	
Family Oscillatoriaceae	
<i>Oscillatoria limnetica</i>	118,024
Family Nostocaceae	
<i>Anabaena affinis</i>	35,264
Division Chlorophyta	
Class Chlorophyceae (Green algae)	
Order Volvocales	
Family Volvocaceae	
<i>Volvox tertius</i>	59,759
Family Botryococcaceae	
<i>Botryococcus braunii</i>	-
Family Oocystaceae	
<i>Dictyosphaerium ehrenbergianum</i>	109,463
<i>Oocystis elliptica</i>	110,598
<i>Tetraedron caudatum</i>	36,409
<i>Tetraedron gracile</i>	56,414
Family Scenedesmaceae	
<i>Actinastrum gracillimum</i>	56,618
<i>Kirchneriella contorta</i>	125,233

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Report No. : 2023-5006426-2 / 008-4 (Page 2 of 4) Issued date : November 2, 2023

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CONTACT : [REDACTED]
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 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยขุมแสง (ในจุดก่อนผ่านพื้นที่โครงการ) **SAMPLING TIME :** 14:50 hr.
COORDINATE : UTM 48P 0207848E, 1357804N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Chlorophyta (cont'd)	
Class Chlorophyceae (Green algae)	
Order Chlorococcales	
Family Hydrodictyaceae	
<i>Pediastrum duplex</i>	40,981
<i>Pediastrum simplex</i>	73,938
Family Coelastraceae	
<i>Coelastrum astroideum</i>	138,455
<i>Coelastrum cambricum</i>	47,795
Order Oedogoniales	
Family Oedogoniaceae	
<i>Oedogonium sp.</i>	45,053
Order Zygnematales	
Family Zygnemataceae	
<i>Mougeotia scalaris</i>	13,337
Family Desmidiaceae	
<i>Closterium acerosum</i>	86,031
<i>Staurastrum tetracerum</i>	32,963
Class Euglenophyceae (Euglenoids)	
Order Euglenales	
Family Eugrenaceae	
<i>Eugrena acus</i>	62,342
<i>Phacus angulatus</i>	26,168
<i>Phacus hamatus</i>	13,531
<i>Trachelomonas amata</i>	40,981
<i>Trachelomonas hispida</i>	-
<i>Trachelomonas ovalis</i>	55,414

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Report No. : 2023-5006426-2 / 008-4 (Page 3 of 4) Issued date : November 2, 2023

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Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยชุมแสง (ในจุดก่อนผ่านพื้นที่โครงการ) **SAMPLING TIME :** 14:50 hr.
COORDINATE : UTM 48P 0207848E, 1357804N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Chlorophyta (cont'd)	
Class Bacillariophyceae (Diatoms)	
Order Biddulphiales	
Family Thalassiosiraceae	
<i>Cyclotella meneghiniana</i>	-
Family Aulacoseiraceae	
<i>Aulacoseira granulate</i>	41,507
Order Bacillariales (Pennate diatoms)	
Suborder Fragiariineae	
Family Fragilariaceae	
<i>Fragilaria sp.</i>	189,555
Suborder Bacillaiinaeae	
Family Achnantheaceae	
<i>Achnanthes sp.</i>	45,225
Family Cymbellaceae	
<i>Cymbella tumida</i>	-
Family Naviculaceae	
<i>Gyrosigma spencerii</i>	69,692
Family Bacillariaceae	
<i>Nitzschia sp.</i>	40,992
Family Surirellaceae	
<i>Stenopterobia sp.</i>	88,923

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Report No. : 2023-5006426-2 / 008-5 (Page 1 of 4) Issued date : November 2, 2023

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CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 22, 2023
SAMPLING LOCATION : ห้วยขุมแสง (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:15 hr.
COORDINATE : UTM 48P 0207638E, 1357929N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Cyanophyta	
Class Cyanophyceae (Blue - Green Algae)	
Order Chroococcales	
Family Chroococcaceae	
<i>Chroococcus minutus</i>	23,643
<i>Merismopedia convoluta</i>	37,004
<i>Merismopedia minima</i>	60,743
Order Nostocales	
Family Oscillatoriaceae	
<i>Oscillatoria limnetica</i>	105,713
Family Nostocaceae	
<i>Anabaena affinis</i>	42,212
Division Chlorophyta	
Class Chlorophyceae (Green algae)	
Order Volvocales	
Family Volvocaceae	
<i>Volvox tertius</i>	15,919
Family Botryococcaceae	
<i>Botryococcus braunii</i>	21,568
Family Oocystaceae	
<i>Dictyosphaerium ehrenbergianum</i>	101,919
<i>Oocystis elliptica</i>	23,430
<i>Tetraedron caudatum</i>	23,963
<i>Tetraedron gracile</i>	52,905
Family Scenedesmaceae	
<i>Actinastrum gracillimum</i>	23,963
<i>Kirchneriella contorta</i>	99,460

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Report No. : 2023-5006426-2 / 008-5 (Page 2 of 4) Issued date : November 2, 2023

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Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 22, 2023
SAMPLING LOCATION : ห้วยขุมแสง (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:15 hr.
COORDINATE : UTM 48P 0207638E, 1357929N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Chlorophyta (cont'd)	
Class Chlorophyceae (Green algae)	
Order Chlorococcales	
Family Hydrodictyaceae	
<i>Pediastrum duplex</i>	64,158
<i>Pediastrum simplex</i>	65,426
Family Coelastraceae	
<i>Coelastrum astroideum</i>	109,954
<i>Coelastrum cambricum</i>	95,515
Order Oedogoniales	
Family Oedogoniaceae	
<i>Oedogonium sp.</i>	53,727
Order Zygnematales	
Family Zygnemataceae	
<i>Mougeotia scalaris</i>	84,074
Family Desmidiaceae	
<i>Closterium acerosum</i>	49,048
<i>Staurastrum tetracerum</i>	20,743
Class Euglenophyceae (Euglenoids)	
Order Euglenales	
Family Eugrenaceae	
<i>Eugrena acus</i>	23,629
<i>Phacus angulatus</i>	11,095
<i>Phacus hamatus</i>	30,529
<i>Trachelomonas amata</i>	48,365
<i>Trachelomonas hispida</i>	23,430
<i>Trachelomonas ovalis</i>	49,443

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Report No. : 2023-5006426-2 / 008-5 (Page 3 of 4) Issued date : November 2, 2023

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CONTACT : [REDACTED]
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 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Phytoplankton Identification **SAMPLING DATE :** September 22, 2023
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COORDINATE : UTM 48P 0207638E, 1357929N **SAMPLING BY :** [REDACTED]

Scientific Classification	Phytoplankton (Cell/m ³)
Division Chlorophyta (cont'd)	
Class Bacillariophyceae (Diatoms)	
Order Biddulphiales	
Family Thalassiosiraceae	
<i>Cyclotella meneghiniana</i>	52,718
Family Aulacoseiraceae	
<i>Aulacoseira granulate</i>	18,189
Order Bacillariales (Pennate diatoms)	
Suborder Fragiariineae	
Family Fragilariaceae	
<i>Fragilaria</i> sp.	174,428
Suborder Bacillaiinaeae	
Family Achnantheaceae	
<i>Achnanthes</i> sp.	61,321
Family Cymbellaceae	
<i>Cymbella tumida</i>	-
Family Naviculaceae	
<i>Gyrosigma spencerii</i>	72,691
Family Bacillariaceae	
<i>Nitzschia</i> sp.	43,883
Family Surirellaceae	
<i>Stenopterobia</i> sp.	77,601

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เพลงก็ต๋อนส์ตัว

Report No. : 2023-5006426-2 / 009-1 (Page 1 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT :
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail:

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE** : September 21, 2023
SAMPLING LOCATION : ห้วยวังปลาต้นน้ำก่อนผ่านพื้นที่โครงการ **SAMPLING TIME** : 16:30 hr.
COORDINATE : UTM 48P 0209006E, 1358715N **SAMPLING BY** :

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa (Protozoans)	
Subphylum Plasmodroma	
Class Sarcodina	
Subclass Rhizopoda	
Order Testacida	
Family Diffugiidae	
<i>Diffugia acuminata</i>	13,027
<i>Diffugia lebes</i>	13,786
Family Euglyphidae	
<i>Euglypha filifera</i>	11,642
Subclass Actinopoda	
Order Heliozoida	
Family Actinophryidae	
<i>Actinophrys sol</i>	23,312
Subphylum Ciliophora	
Class Ciliata	
Subclass Holotricha	
Order Gymnostomatida	
Family Colepidae	
<i>Coleps sp.</i>	22,615
Family Didiniidae	
<i>Didinium nasutum</i>	-

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Report No. : 2023-5006426-2 / 009-1 (Page 2 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยวังปลาต้นน้ำก่อนผ่านพื้นที่โครงการ **SAMPLING TIME :** 16:30 hr.
COORDINATE : UTM 48P 0209006E, 1358715N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa (Protozoans) (cont'd)	
Subphylum Ciliophora	
Class Ciliata	
Subclass Spirotricha	
Order Tintinnida	
Family Codonellidae	
<i>Tintinnopsis lohmanni</i>	23,183
Subclass Peritrichia	
Order Peritrichida	
Family Acinetidae	
<i>Acineta sp.</i>	8,669
Family Vorticellidae	
<i>Vorticella campanula</i>	29,551
Phylum Rotifera (Rotifers)	
Class Monogononta	
Order Ploima	
Family Brachionidae	
<i>Brachionus angularis</i>	15,555
<i>Keratella cochlearis</i>	13,861
<i>Trichotria tetractis</i>	6,486
Family Lecanidae	
<i>Lecane aculeata</i>	24,018
<i>Lecane curvicornis</i>	-
Family Trichocercidae	
<i>Trichocerca capucina</i>	17,901
<i>Trichocerc elongata</i>	16,566

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Report No. : 2023-5006426-2 / 009-1 (Page 3 of 4) Issued date : November 2, 2023

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CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยวังปลาต้นน้ำก่อนผ่านพื้นที่โครงการ **SAMPLING TIME :** 16:30 hr.
COORDINATE : UTM 48P 0209006E, 1358715N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Rotifera (Rotifers) (cont'd)	
Class Monogononta	
Order Ploima	
Family Asplanchnidae	
<i>Asplanchna brightwelli</i>	14,178
Family Gastropodidae	
<i>Ascomorpha agilis</i>	6,164
Family Synchaetidae	
<i>Polyarthra vulgaris</i>	32,417
<i>Synchaeta stylata</i>	9,259
Order Flosculariacea	
Family Testudinellidae	
<i>Fillinia brachita</i>	15,747
<i>Fillinia opoliensis</i>	15,842
Class Digononta	
Family Philodinidae	
<i>Rotaria sp.</i>	35,157
Phylum Arthropoda (Arthropods)	
Class Crustacea (Crustaceans)	
Subclass Branchiopoda	
Order Diplostraca	
Suborder Cladocera (Cladocerans)	
Family Daphnidae	
<i>Ceriodaphnia cornuta</i>	15,362
Family Moinidae	
<i>Moina macrocopa</i>	25,772
Family Bosminidae	
<i>Bosmina longirostris</i>	-

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Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยวังปลาต้นน้ำก่อนผ่านพื้นที่โครงการ **SAMPLING TIME :** 16:30 hr.
COORDINATE : UTM 48P 0209006E, 1358715N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda (Arthropods) (cont'd)	
Class Crustacea (Crustaceans)	
Subclass Branchiopoda	
Order Diplostraca	
Family Chydoridae	
<i>Alona affinis</i>	5,981
Subclass Copepoda (Copepods)	
Order Calanoida (Calanoids)	
Family Diaptomidae	
<i>Heliodiaptomus viduus</i>	9,527
<i>Mongolodiaptomus botulifer</i>	15,187
<i>Phyllodiaptomus christineae</i>	7,397
Total Species of Zooplankton (Species)	27
Total Density of Zooplankton (individuals/m³)	448,162
Species Richness Index^{1/}	2.00
Biodiversity Index^{2/}	3.19
Evenness Index^{3/}	0.97

Remarks : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF (APHA, 10200G)

^{1/} The species richness was calculated by using the Margalef's Index.

^{2/} The biodiversity index was calculated by using the Shannon-Wiener's Index.

^{3/} The evenness index was calculated by using the Pielou's Index.



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Report No. : 2023-5006426-2 / 009-2 (Page 1 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
Tel.: 02-265-5678 [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดก่อนผ่านพื้นที่โครงการ) **SAMPLING TIME :** 15:50 hr.
COORDINATE : UTM 48P 0208641E, 1358442N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa (Protozoans)	
Subphylum Plasmodroma	
Class Sarcodina	
Subclass Rhizopoda	
Order Testacida	
Family Diffugiidae	
<i>Diffugia acuminata</i>	19,226
<i>Diffugia lebes</i>	7,218
Family Euglyphidae	
<i>Euglypha filifera</i>	14,462
Subclass Actinopoda	
Order Heliozoidea	
Family Actinophryidae	
<i>Actinophrys sol</i>	8,998
Subphylum Ciliophora	
Class Ciliata	
Subclass Holotricha	
Order Gymnostomatida	
Family Colepidae	
<i>Coleps sp.</i>	10,226
Family Didiniidae	
<i>Didinium nasutum</i>	16,620

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SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดก่อนผ่านพื้นที่โครงการ) **SAMPLING TIME :** 15:50 hr.
COORDINATE : UTM 48P 0208641E, 1358442N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa (Protozoans) (cont'd)	
Subphylum Ciliophora	
Class Ciliata	
Subclass Spirotricha	
Order Tintinnida	
Family Codonellidae	
<i>Tintinnopsis lohmanni</i>	2,454
Subclass Peritrichia	
Order Peritrichida	
Family Acinetidae	
<i>Acineta sp.</i>	8,998
Family Vorticellidae	
<i>Vorticella campanul</i>	15,091
Phylum Rotifera (Rotifers)	
Class Monogononta	
Order Ploima	
Family Brachionidae	
<i>Brachionus angularis</i>	17,402
<i>Keratella cochlearis</i>	9,842
<i>Trichotria tetractis</i>	29,111
Family Lecanidae	
<i>Lecane aculeata</i>	-
<i>Lecane curvicornis</i>	18,536
Family Trichocercidae	
<i>Trichocerca capucina</i>	26,397
<i>Trichocerc elongata</i>	2,659

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SAMPLING LOCATION : ห้วยสลักหมู (ในจุดก่อนผ่านพื้นที่โครงการ) **SAMPLING TIME :** 15:50 hr.
COORDINATE : UTM 48P 0208641E, 1358442N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Rotifera (Rotifers) (cont'd)	
Class Monogononta	
Order Ploima	
Family Asplanchnidae	
<i>Asplanchna brightwelli</i>	16,620
Family Gastropodidae	
<i>Ascomorpha agilis</i>	13,998
Family Synchaetidae	
<i>Polyarthra vulgaris</i>	-
<i>Synchaeta stylata</i>	23,836
Order Flosculariacea	
Family Testudinellidae	
<i>Fillinia brachita</i>	18,312
<i>Fillinia opoliensis</i>	5,559
Class Digononta	
Family Philodinidae	
<i>Rotaria sp.</i>	19,028
Phylum Arthropoda (Arthropods)	
Class Crustacea (Crustaceans)	
Subclass Branchiopoda	
Order Diplostraca	
Suborder Cladocera (Cladocerans)	
Family Daphnidae	
<i>Ceriodaphnia cornuta</i>	16,314
Family Moinidae	
<i>Moina macrocopa</i>	12,800
Family Bosminidae	
<i>Bosmina longirostris</i>	9,090

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COORDINATE : UTM 48P 0208641E, 1358442N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda (Arthropods) (cont'd)	
Class Crustacea (Crustaceans)	
Subclass Branchiopoda	
Order Diplostraca	
Family Chydoridae	
<i>Alona affinis</i>	7,655
Subclass Copepoda (Copepods)	
Order Calanoida (Calanoids)	
Family Diaptomidae	
<i>Heliodiaptomus viduus</i>	9,842
<i>Mongolodiaptomus botulifer</i>	6,024
<i>Phyllodiaptomus christineae</i>	6,343
Total Species of Zooplankton (Species)	28
Total Density of Zooplankton (individuals/m³)	372,663
Species Richness Index^{1/}	2.10
Biodiversity Index^{2/}	3.20
Evenness Index^{3/}	0.96

Remarks : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF (APHA, 10200G)

^{1/} The species richness was calculated by using the Margalef's Index.

^{2/} The biodiversity index was calculated by using the Shannon-Wiener's Index.

^{3/} The evenness index was calculated by using the Pielou's Index



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Report No. : 2023-5006426-2 / 009-3 (Page 1 of 4) Issued date : November 2, 2023

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CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:35 hr.
COORDINATE : UTM 48P 0208707E, 1359087N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa (Protozoans)	
Subphylum Plasmodroma	
Class Sarcodina	
Subclass Rhizopoda	
Order Testacida	
Family Diffugiidae	
<i>Diffugia acuminata</i>	15,385
<i>Diffugia lebes</i>	20,362
Family Euglyphidae	
<i>Euglypha filifera</i>	9,529
Subclass Actinopoda	
Order Heliozoida	
Family Actinophryidae	
<i>Actinophrys sol</i>	7,687
Subphylum Ciliophora	
Class Ciliata	
Subclass Holotricha	
Order Gymnostomatida	
Family Colepidae	
<i>Coleps sp.</i>	27,955
Family Didiniidae	
<i>Didinium nasutum</i>	13,044

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COORDINATE : UTM 48P 0208707E, 1359087N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa (Protozoans) (cont'd)	
Subphylum Ciliophora	
Class Ciliata	
Subclass Spirotricha	
Order Tintinnida	
Family Codonellidae	
<i>Tintinnopsis lohmanni</i>	23,060
Subclass Peritrichia	
Order Peritrichida	
Family Acinetidae	
<i>Acineta sp.</i>	-
Family Vorticellidae	
<i>Vorticella campanul</i>	13,887
Phylum Rotifera (Rotifers)	
Class Monogononta	
Order Ploima	
Family Brachionidae	
<i>Brachionus angularis</i>	29,593
<i>Keratella cochlearis</i>	11,723
<i>Trichotria tetractis</i>	11,435
Family Lecanidae	
<i>Lecane aculeata</i>	15,871
<i>Lecane curvicornis</i>	7,687
Family Trichocercidae	
<i>Trichocerca capucina</i>	-
<i>Trichocerc elongata</i>	-

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CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:35 hr.
COORDINATE : UTM 48P 0208707E, 1359087N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Rotifera (Rotifers) (cont'd)	
Class Monogononta	
Order Ploima	
Family Asplanchnidae	
<i>Asplanchna brightwelli</i>	5,357
Family Gastropodidae	
<i>Ascomorpha agilis</i>	-
Family Synchaetidae	
<i>Polyarthra vulgaris</i>	17,855
<i>Synchaeta stylata</i>	15,416
Order Flosculariacea	
Family Testudinellidae	
<i>Fillinia brachita</i>	6,331
<i>Fillinia opoliensis</i>	-
Class Digononta	
Family Philodinidae	
<i>Rotaria sp.</i>	13,887
Phylum Arthropoda (Arthropods)	
Class Crustacea (Crustaceans)	
Subclass Branchiopoda	
Order Diplostraca	
Suborder Cladocera (Cladocerans)	
Family Daphnidae	
<i>Ceriodaphnia cornuta</i>	39,581
Family Moinidae	
<i>Moina macrocopa</i>	24,063
Family Bosminidae	
<i>Bosmina longirostris</i>	8,243

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Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยสลักหมู (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:35 hr.
COORDINATE : UTM 48P 0208707E, 1359087N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda (Arthropods) (cont'd)	
Class Crustacea (Crustaceans)	
Subclass Branchiopoda	
Order Diplostraca	
Family Chydoridae	
<i>Alona affinis</i>	13,007
Subclass Copepoda (Copepods)	
Order Calanoida (Calanoids)	
Family Diaptomidae	
<i>Heliidiaptomus viduus</i>	13,228
<i>Mongolodiaptomus botulifer</i>	15,385
<i>Phyllodiaptomus christineae</i>	19,312
Total Species of Zooplankton (Species)	25
Total Density of Zooplankton (individuals/m³)	398,884
Species Richness Index^{1/}	1.86
Biodiversity Index^{2/}	3.11
Evenness Index^{3/}	0.97

Remarks : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF (APHA, 10200G)

^{1/} The species richness was calculated by using the Margalef's Index.

^{2/} The biodiversity index was calculated by using the Shannon-Wiener's Index.

^{3/} The evenness index was calculated by using the Pielou's Index.

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Report No. : 2023-5006426-2 / 009-4 (Page 1 of 4) Issued date : November 2, 2023

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Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยชุมแสง (ในจุดก่อนผ่านพื้นที่โครงการ) **SAMPLING TIME :** 14:50 hr.
COORDINATE : UTM 48P 0207848E, 1357804N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa (Protozoans)	
Subphylum Plasmodroma	
Class Sarcodina	
Subclass Rhizopoda	
Order Testacida	
Family Diffugiidae	
<i>Diffugia acuminata</i>	8,435
<i>Diffugia lebes</i>	14,339
Family Euglyphidae	
<i>Euglypha filifera</i>	-
Subclass Actinopoda	
Order Heliozoida	
Family Actinophryidae	
<i>Actinophrys sol</i>	19,351
Subphylum Ciliophora	
Class Ciliata	
Subclass Holotricha	
Order Gymnostomatida	
Family Colepidae	
<i>Coleps sp.</i>	-
Family Didiniidae	
<i>Didinium nasutum</i>	7,059

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COORDINATE : UTM 48P 0207848E, 1357804N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa (Protozoans) (cont'd)	
Subphylum Ciliophora	
Class Ciliata	
Subclass Spirotricha	
Order Tintinnida	
Family Codonellidae	
<i>Tintinnopsis lohmanni</i>	10,916
Subclass Peritrichia	
Order Peritrichida	
Family Acinetidae	
<i>Acineta sp.</i>	11,164
Family Vorticellidae	
<i>Vorticella campanula</i>	5,706
Phylum Rotifera (Rotifers)	
Class Monogononta	
Order Ploima	
Family Brachionidae	
<i>Brachionus angularis</i>	10,668
<i>Keratella cochlearis</i>	17,207
<i>Trichotria tetractis</i>	-
Family Lecanidae	
<i>Lecane aculeata</i>	18,855
<i>Lecane curvicornis</i>	21,619
Family Trichocercidae	
<i>Trichocerca capucina</i>	12,133
<i>Trichocerc elongata</i>	10,916

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COORDINATE : UTM 48P 0207848E, 1357804N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Rotifera (Rotifers) (cont'd)	
Class Monogononta	
Order Ploima	
Family Asplanchnidae	
<i>Asplanchna brightwelli</i>	15,274
Family Gastropodidae	
<i>Ascomorpha agilis</i>	13,893
Family Synchaetidae	
<i>Polyarthra vulgaris</i>	21,619
<i>Synchaeta stylata</i>	19,351
Order Flosculariacea	
Family Testudinellidae	
<i>Fillinia brachita</i>	13,645
<i>Fillinia opoliensis</i>	30,988
Class Digononta	
Family Philodinidae	
<i>Rotaria sp.</i>	22,932
Phylum Arthropoda (Arthropods)	
Class Crustacea (Crustaceans)	
Subclass Branchiopoda	
Order Diplostraca	
Suborder Cladocera (Cladocerans)	
Family Daphnidae	
<i>Ceriodaphnia cornuta</i>	-
Family Moinidae	
<i>Moina macrocopa</i>	13,222
Family Bosminidae	
<i>Bosmina longirostris</i>	-

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Report No. : 2023-5006426-2 / 009-4 (Page 4 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 21, 2023
SAMPLING LOCATION : ห้วยขุมแสง (ในจุดก่อนผ่านพื้นที่โครงการ) **SAMPLING TIME :** 14:50 hr.
COORDINATE : UTM 48P 0207848E, 1357804N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda (Arthropods) (cont'd)	
Class Crustacea (Crustaceans)	
Subclass Branchiopoda	
Order Diplostraca	
Family Chydoridae	
<i>Alona affinis</i>	15,467
Subclass Copepoda (Copepods)	
Order Calanoida (Calanoids)	
Family Diaptomidae	
<i>Heliidiaptomus viduus</i>	-
<i>Mongolodiaptomus botulifer</i>	10,916
<i>Phyllodiaptomus christineae</i>	-
Total Species of Zooplankton (Species)	23
Total Density of Zooplankton (individuals/m³)	345,675
Species Richness Index^{1/}	1.73
Biodiversity Index^{2/}	3.07
Evenness Index^{3/}	0.98

Remarks : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF (APHA, 10200G)

^{1/} The species richness was calculated by using the Margalef's Index.

^{2/} The biodiversity index was calculated by using the Shannon-Wiener's Index.

^{3/} The evenness index was calculated by using the Pielou's Index.



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Report No. : 2023-5006426-2 / 009-5 (Page 1 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 22, 2023
SAMPLING LOCATION : ห้วยขุมแสง (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:15 hr.
COORDINATE : UTM 48P 0207638E, 1357229N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa (Protozoans)	
Subphylum Plasmodroma	
Class Sarcodina	
Subclass Rhizopoda	
Order Testacida	
Family Diffugiidae	
<i>Diffugia acuminata</i>	-
<i>Diffugia lebes</i>	18,027
Family Euglyphidae	
<i>Euglypha filifera</i>	7,155
Subclass Actinopoda	
Order Heliozoida	
Family Actinophryidae	
<i>Actinophrys sol</i>	10,821
Subphylum Ciliophora	
Class Ciliata	
Subclass Holotricha	
Order Gymnostomatida	
Family Colepidae	
<i>Coleps sp.</i>	15,203
Family Didiniidae	
<i>Didinium nasutum</i>	27,664

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Report No. : 2023-5006426-2 / 009-5 (Page 2 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 E-mail: [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 22, 2023
SAMPLING LOCATION : ห้วยขุมแสง (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:15 hr.
COORDINATE : UTM 48P 0207638E, 1357229N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Protozoa (Protozoans) (cont'd)	
Subphylum Ciliophora	
Class Ciliata	
Subclass Spirotricha	
Order Tintinnida	
Family Codonellidae	
<i>Tintinnopsis lohmanni</i>	14,533
Subclass Peritrichia	
Order Peritrichida	
Family Acinetidae	
<i>Acineta sp.</i>	-
Family Vorticellidae	
<i>Vorticella campanula</i>	9,324
Phylum Rotifera (Rotifers)	
Class Monogononta	
Order Ploima	
Family Brachionidae	
<i>Brachionus angularis</i>	9,838
<i>Keratella cochlearis</i>	16,162
<i>Trichotria tetractis</i>	14,980
Family Lecanidae	
<i>Lecane aculeata</i>	12,521
<i>Lecane curvicornis</i>	15,954
Family Trichocercidae	
<i>Trichocerca capucina</i>	-
<i>Trichocerc elongata</i>	36,548

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Report No. : 2023-5006426-2 / 009-5 (Page 3 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 22, 2023
SAMPLING LOCATION : ห้วยขุมแสง (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:15 hr.
COORDINATE : UTM 48P 0207638E, 1357229N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Rotifera (Rotifers) (cont'd)	
Class Monogononta	
Order Ploima	
Family Asplanchnidae	
<i>Asplanchna brightwelli</i>	8,362
Family Gastropodidae	
<i>Ascomorpha agilis</i>	26,043
Family Synchaetidae	
<i>Polyarthra vulgaris</i>	18,027
<i>Synchaeta stylata</i>	12,521
Order Flosculariaceae	
Family Testudinellidae	
<i>Fillinia brachita</i>	7,378
<i>Fillinia opoliensis</i>	11,603
Class Digononta	
Family Philodinidae	
<i>Rotaria sp.</i>	12,018
Phylum Arthropoda (Arthropods)	
Class Crustacea (Crustaceans)	
Subclass Branchiopoda	
Order Diplostraca	
Suborder Cladocera (Cladocerans)	
Family Daphnidae	
<i>Ceriodaphnia cornuta</i>	15,954
Family Moinidae	
<i>Moina macrocopa</i>	15,394
Family Bosminidae	
<i>Bosmina longirostris</i>	21,053

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Report No. : 2023-5006426-2 / 009-5 (Page 4 of 4) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)
CONTACT : [REDACTED]
ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900
 Tel. 02-265-5678 [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Zooplankton Identification **SAMPLING DATE :** September 22, 2023
SAMPLING LOCATION : ห้วยชุมแสง (ในจุดหลังผ่านพื้นที่โครงการ) **SAMPLING TIME :** 10:15 hr.
COORDINATE : UTM 48P 0207638E, 1357229N **SAMPLING BY :** [REDACTED]

Scientific Classification	Zooplankton (individuals/m ³)
Phylum Arthropoda (Arthropods) (cont'd)	
Class Crustacea (Crustaceans)	
Subclass Branchiopoda	
Order Calanoida (Calanoids)	
Family Chydoridae	
<i>Alona affinis</i>	30,711
Class Crustacea (Crustaceans)	
Subclass Copepoda (Copepods)	
Family Diaptomidae	
<i>Heliidiaptomus viduus</i>	17,663
<i>Mongolodiaptomus botulifer</i>	9,323
<i>Phyllodiaptomus christineae</i>	12,521
Total Species of Zooplankton (Species)	27
Total Density of Zooplankton (individuals/m³)	427,298
Species Richness Index^{1/}	2.01
Biodiversity Index^{2/}	3.21
Evenness Index^{3/}	0.97

Remarks : - Analytical Methods followed to Standard Methods for the Examination of Water and Wastewater, recommended by APHA-AWWA-WEF (APHA, 10200G)

^{1/} The species richness was calculated by using the Margalef's Index.

^{2/} The biodiversity index was calculated by using the Shannon-Wiener's Index.

^{3/} The evenness index was calculated by using the Pielou's Index

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Technical Manager

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Report No. : 2023-5006426-2/ 010-1 (Page 1 of 1) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)

CONTACT :

ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900

Tel. 02-265-5678

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification

SAMPLING DATE : September 21, 2023

SAMPLING LOCATION : ห้วยวังปลาต้นน้ำก่อนผ่านพื้นที่โครงการ

SAMPLING TIME : 16:30 hr.

COORDINATE : UTM 48P 0209006E, 1358715N

SAMPLING BY :

Scientific Classification	Benthos (Individuals/m ²)
Phylum Annelida Class Clitellata Order Oligochaeta Family Naididae <i>Tubifex sp.</i>	20
Phylum Arthropoda Class Insecta Order Diptera Family Chironomidae <i>Chironomus sp.</i>	70
Phylum Mollusca Class Gastropoda Order Architaenioglossa Family Ampullariidae <i>Pomacea canaliculata</i>	20
Order Caenogastropoda Family Thiariidae <i>Melanoides Tuberculata</i>	20
Total Family of Benthos (Species)	4
Total Density of Benthos (individuals/m²)	130
Richness Index^{1/}	0.62
Biodiversity Index^{2/}	1.20
Evenness Index^{3/}	0.86

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

^{1/} The species richness was calculated by using the Margalef's Index.

^{2/} The biodiversity index was calculated by using the Shannon-Wiener's Index.

^{3/} The evenness index was calculated by using the Pielou's Index.



Technical Manager

TYWP/SJS/SJS

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Report No. : 2023-5006426-2/ 010-2 (Page 1 of 1) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)

CONTACT :

ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900

Tel. 02-265-5678

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification

SAMPLING DATE : September 21, 2023

SAMPLING LOCATION : ห้วยสลักหมู (ในจุดก่อนผ่านพื้นที่โครงการ)

SAMPLING TIME : 15:50 hr.

COORDINATE : UTM 48P 0208641E, 1358442N

SAMPLING BY :

Scientific Classification	Benthos (Individuals/m ²)
Phylum Annelida	
Class Clitellata	
Order Oligochaeta	
Family Naididae	
<i>Tubifex sp.</i>	20
Phylum Arthropoda	
Class Insecta	
Order Diptera	
Family Chironomidae	
<i>Chironomus sp.</i>	70
Phylum Mollusca	
Class Gastropoda	
Order Architaenioglossa	
Family Ampullariidae	
<i>Pomacea canaliculata</i>	20
Order Caenogastropoda	
Family Thiariidae	
<i>Melanoides Tuberculata</i>	-
Total Family of Benthos (Species)	3
Total Density of Benthos (individuals/m²)	110
Richness Index^{1/}	0.43
Biodiversity Index^{2/}	0.91
Evenness Index^{3/}	0.83

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

^{1/} The species richness was calculated by using the Margalef's Index.

^{2/} The biodiversity index was calculated by using the Shannon-Wiener's Index.

^{3/} The evenness index was calculated by using the Pielou's Index.



Technical Manager

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Report No. : 2023-5006426-2/ 010-3 (Page 1 of 1) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)

CONTACT : [REDACTED]

ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900

Tel. 02-265-5678 [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification

SAMPLING DATE : September 21, 2023

SAMPLING LOCATION : ห้วยสลักหมู (ในจุดหลังผ่านพื้นที่โครงการ)

SAMPLING TIME : 10:35 hr.

COORDINATE : UTM 48P 0208707E, 1359087N

SAMPLING BY : [REDACTED]

Scientific Classification	Benthos (Individuals/m ²)
Phylum Annelida Class Clitellata Order Oligochaeta Family Naididae <i>Tubifex sp.</i>	40
Phylum Arthropoda Class Insecta Order Diptera Family Chironomidae <i>Chironomus sp.</i>	50
Phylum Mollusca Class Gastropoda Order Architaenioglossa Family Ampullariidae <i>Pomacea canaliculata</i>	10
Order Caenogastropoda Family Thiaridae <i>Melanoides Tuberculata</i>	30
Total Family of Benthos (Species)	4
Total Density of Benthos (individuals/m²)	130
Richness Index^{1/}	0.62
Biodiversity Index^{2/}	1.27
Evenness Index^{3/}	0.91

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

^{1/} The species richness was calculated by using the Margalef's Index.

^{2/} The biodiversity index was calculated by using the Shannon-Wiener's Index.

^{3/} The evenness index was calculated by using the Pielou's Index.



Technical Manager



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Report No. : 2023-5006426-2/ 010-4 (Page 1 of 1) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)

CONTACT : [REDACTED]

ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900

Tel. 02-265-5678 [REDACTED]

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification

SAMPLING DATE : September 21, 2023

SAMPLING LOCATION : ห้วยขุมแสง (ในจุดก่อนผ่านพื้นที่โครงการ)

SAMPLING TIME : 14:50 hr.

COORDINATE : UTM 48P 0207848E, 1357804N

SAMPLING BY : [REDACTED]

Scientific Classification	Benthos (Individuals/m ²)
Phylum Annelida	
Class Clitellata	
Order Oligochaeta	
Family Naididae	
<i>Tubifex</i> sp.	20
Phylum Arthropoda	
Class Insecta	
Order Diptera	
Family Chironomidae	
<i>Chironomus</i> sp.	70
Phylum Mollusca	
Class Gastropoda	
Order Architaenioglossa	
Family Ampullariidae	
<i>Pomacea canaliculata</i>	20
Order Caenogastropoda	
Family Thiaridae	
<i>Melanoides Tuberculata</i>	10
Total Family of Benthos (Species)	4
Total Density of Benthos (individuals/m²)	120
Richness Index^{1/}	0.63
Biodiversity Index^{2/}	1.12
Evenness Index^{3/}	0.81

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

^{1/} The species richness was calculated by using the Margalef's Index.

^{2/} The biodiversity index was calculated by using the Shannon-Wiener's Index.

^{3/} The evenness index was calculated by using the Pielou's Index.



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Report No. : 2023-5006426-2/ 010-5 (Page 1 of 1) Issued date : November 2, 2023

CLIENT : BANGKOK AIRWAYS PUBLIC COMPANY LIMITED (TRAT AIRPORT)

CONTACT :

ADDRESS : 99 Moo 14, Vibhavadirangsit Road, Chom Phon, Chatuchak, Bangkok 10900

Tel. 02-265-5678

Analysis Report

SAMPLE DESIGNATED AS : Benthos Identification

SAMPLING DATE : September 22, 2023

SAMPLING LOCATION : ห้วยขุมแสง (ในจุดหลังผ่านพื้นที่โครงการ)

SAMPLING TIME : 10:15 hr.

COORDINATE : UTM 48P 0207638E, 1357929N

SAMPLING BY :

Scientific Classification	Benthos (Individuals/m ²)
Phylum Annelida Class Clitellata Order Oligochaeta Family Naididae <i>Tubifex sp.</i>	10
Phylum Arthropoda Class Insecta Order Diptera Family Chironomidae <i>Chironomus sp.</i>	40
Phylum Mollusca Class Gastropoda Order Architaenioglossa Family Ampullariidae <i>Pomacea canaliculata</i>	30
Order Caenogastropoda Family Thiaridae <i>Melanoides Tuberculata</i>	20
Total Family of Benthos (Species)	4
Total Density of Benthos (individuals/m²)	100
Richness Index^{1/}	0.65
Biodiversity Index^{2/}	1.28
Evenness Index^{3/}	0.92

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

^{1/} The species richness was calculated by using the Margalef's Index.

^{2/} The biodiversity index was calculated by using the Shannon-Wiener's Index.

^{3/} The evenness index was calculated by using the Pielou's Index.



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