

ภาคผนวก ง

ผลการติดตามคุณภาพสิ่งแวดล้อม



ภาคผนวก ง-1

ผลการตรวจวัดคุณภาพอากาศ



ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เอเชีย กรีน พอร์ต จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.linfo@gmail.com
SAMPLING SOURCE : บริเวณท่าเทียบเรือท่าเทียบเรือ
SAMPLE TYPE : AMBIENT
SAMPLING DATE : ** ** ** **
SAMPLING TIME : ** ** **
SAMPLING BY : MR SIRAPAT JONGPHADUNGKIEI
ANALYZED BY : MISS JETJARAN TUMSA-AT

RECEIVED DATE : SEPTEMBER 28, 2023
ANALYTICAL DATE : SEPTEMBER 28-OCTOBER 3, 2023
REPORT NO. : 2023-U085129
WORK NO. : 2022-008114
ANALYSIS NO. : T23AT317-0006 - T23AT317-0010

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT				
			*	**	***	****	*****
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T23AT317-0006	T23AT317-0007	T23AT317-0008	T23AT317-0009	T23AT317-0010
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.033	0.040	0.034	0.024	0.022
FINE PARTICULATE MATTER as PM _{2.5} (≤ 2.5 µm)	µg/m ³	US EPA CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM _{2.5} IN THE ATMOSPHERE, 2021	0.016	0.023	0.020	0.013	0.011
			8.90	11.8	8.80	4.00	4.00
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE

REMARK
TSP, PM₁₀
PM_{2.5}
TSP
PM₁₀
*
**

: REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
: REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD)
REVISED AS OF JULY 1, 2021.
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX 1, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM₁₀ IN THE ATMOSPHERE (HIGH-VOLUME METHOD)
REVISED AS OF JULY 1, 2021.
: SAMPLING FROM 08:30 HOUR ON SEPTEMBER 23, 2023 TO 08:30 HOUR ON SEPTEMBER 24, 2023.
: SAMPLING FROM 08:30 HOUR ON SEPTEMBER 24, 2023 TO 08:30 HOUR ON SEPTEMBER 25, 2023.
: SAMPLING FROM 08:30 HOUR ON SEPTEMBER 25, 2023 TO 08:30 HOUR ON SEPTEMBER 26, 2023.
: SAMPLING FROM 08:30 HOUR ON SEPTEMBER 26, 2023 TO 08:30 HOUR ON SEPTEMBER 27, 2023.
: SAMPLING FROM 08:30 HOUR ON SEPTEMBER 27, 2023 TO 08:30 HOUR ON SEPTEMBER 28, 2023.

Budsakorn ✓
(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เอเชีย กรีน พอร์ต จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.linfo@gmail.com
SAMPLING SOURCE : บริเวณท่าเทียบเรือท่าเทียบเรือ
SAMPLE TYPE : AMBIENT
SAMPLING DATE : ** ** **
SAMPLING TIME : ** ** **
SAMPLING BY : MR SIRAPAT JONGPHADUNGKIEI
ANALYZED BY : MISS JETJARAN TUMSA-AT

RECEIVED DATE : SEPTEMBER 28, 2023
ANALYTICAL DATE : SEPTEMBER 28-OCTOBER 3, 2023
REPORT NO. : 2023-U085128
WORK NO. : 2022-008114
ANALYSIS NO. : T23AT317-0001 - T23AT317-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT				
			*	**	***	****	*****
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T23AT317-0001	T23AT317-0002	T23AT317-0003	T23AT317-0004	T23AT317-0005
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.053	0.038	0.035	0.023	0.021
FINE PARTICULATE MATTER as PM _{2.5} (≤ 2.5 µm)	µg/m ³	US EPA CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM _{2.5} IN THE ATMOSPHERE, 2021	0.023	0.021	0.018	0.011	0.010
			10.5	11.8	6.40	4.90	3.10
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE

REMARK
TSP, PM₁₀
PM_{2.5}
TSP
PM₁₀
*
**

: REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
: REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD)
REVISED AS OF JULY 1, 2021.
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX 1, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM₁₀ IN THE ATMOSPHERE (HIGH-VOLUME METHOD)
REVISED AS OF JULY 1, 2021.
: SAMPLING FROM 09:00 HOUR ON SEPTEMBER 23, 2023 TO 09:00 HOUR ON SEPTEMBER 24, 2023.
: SAMPLING FROM 09:00 HOUR ON SEPTEMBER 24, 2023 TO 09:00 HOUR ON SEPTEMBER 25, 2023.
: SAMPLING FROM 09:00 HOUR ON SEPTEMBER 25, 2023 TO 09:00 HOUR ON SEPTEMBER 26, 2023.
: SAMPLING FROM 09:00 HOUR ON SEPTEMBER 26, 2023 TO 09:00 HOUR ON SEPTEMBER 27, 2023.
: SAMPLING FROM 09:00 HOUR ON SEPTEMBER 27, 2023 TO 09:00 HOUR ON SEPTEMBER 28, 2023.

Budsakorn ✓
(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริเวณ ท่าเรือ ท่าเรือ ท่าเรือ
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : บริเวณท่าเทียบเรือท่าเรือ
SAMPLE TYPE : AMBIENT
SAMPLING DATE : 2023-08-13
SAMPLING TIME : 2022-08-14
SAMPLING BY : MR SIRAPAT JONGPHADUNGKIEAT
ANALYZED BY : MISS JETJARAN TUMSA-AT

RECEIVED DATE : SEPTEMBER 28, 2023
ANALYTICAL DATE : SEPTEMBER 28-OCTOBER 3, 2023
REPORT NO. : 2023-U085131
WORK NO. : 2022-008114
ANALYSIS NO. : T23AT317-0016 - T23AT317-0020

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT						
			ปริมาณมาตรฐานร้อยละ						
			*	**	***	****	*****	*****	
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T23AT317-0016	0.042	0.044	T23AT317-0017	T23AT317-0018	T23AT317-0019	T23AT317-0020
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)		0.031	0.033		0.048	0.022	0.018
FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm)	µg/m ³	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021	9.00		9.00		7.80	4.80	3.40
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE

REMARK
TSP, PM10
PM2.5
TSP
PM10
*
**

: REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
: REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD)
REVISED AS OF JULY 1, 2021.
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD)
REVISED AS OF JULY 1, 2021.
: SAMPLING FROM 09:30 HOUR ON SEPTEMBER 23, 2023 TO 09:30 HOUR ON SEPTEMBER 24, 2023.
: SAMPLING FROM 09:30 HOUR ON SEPTEMBER 24, 2023 TO 09:30 HOUR ON SEPTEMBER 25, 2023.
: SAMPLING FROM 09:30 HOUR ON SEPTEMBER 25, 2023 TO 09:30 HOUR ON SEPTEMBER 26, 2023.
: SAMPLING FROM 09:30 HOUR ON SEPTEMBER 26, 2023 TO 09:30 HOUR ON SEPTEMBER 27, 2023.
: SAMPLING FROM 09:30 HOUR ON SEPTEMBER 27, 2023 TO 09:30 HOUR ON SEPTEMBER 28, 2023.

Budsakorn
(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริเวณ ท่าเรือ ท่าเรือ ท่าเรือ
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : บริเวณท่าเทียบเรือท่าเรือ
SAMPLE TYPE : AMBIENT
SAMPLING DATE : 2023-08-13
SAMPLING TIME : 2022-08-14
SAMPLING BY : MR SIRAPAT JONGPHADUNGKIEAT
ANALYZED BY : MISS JETJARAN TUMSA-AT

RECEIVED DATE : SEPTEMBER 28, 2023
ANALYTICAL DATE : SEPTEMBER 28-OCTOBER 3, 2023
REPORT NO. : 2023-U085130
WORK NO. : 2022-008114
ANALYSIS NO. : T23AT317-0011 - T23AT317-0015

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT					
			มกราคม-กุมภาพันธ์ ๒๕๖๓					
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T23AT317-0011	0.040	0.038	0.045	0.034	0.023
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)		0.023	0.022	0.024	0.015	0.012
FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm)	µg/m ³	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I, PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021		12.1	15.5	10.8	5.20	4.50
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE

REMARK
TSP, PM10
PM2.5
TSP
PM10
*
**

: REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
: REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD)
REVISED AS OF JULY 1, 2021.
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD)
REVISED AS OF JULY 1, 2021.
: SAMPLING FROM 08:00 HOUR ON SEPTEMBER 23, 2023 TO 08:00 HOUR ON SEPTEMBER 24, 2023.
: SAMPLING FROM 08:00 HOUR ON SEPTEMBER 24, 2023 TO 08:00 HOUR ON SEPTEMBER 25, 2023.
: SAMPLING FROM 08:00 HOUR ON SEPTEMBER 25, 2023 TO 08:00 HOUR ON SEPTEMBER 26, 2023.
: SAMPLING FROM 08:00 HOUR ON SEPTEMBER 26, 2023 TO 08:00 HOUR ON SEPTEMBER 27, 2023.
: SAMPLING FROM 08:00 HOUR ON SEPTEMBER 27, 2023 TO 08:00 HOUR ON SEPTEMBER 28, 2023.

Budsakorn
(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phra Khanong, Bangkok 10260
Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uaee@uaeconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเรือสินค้า บริเวณ เขต อรัญ พรหม จ.ภูเก็ต
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเรือสินค้าบริเวณท่าเรือ
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085572
WORK NO. : 2022-008114
ANALYSIS NO. : TZ3AT317-0010

TIME *	RESULT (ppm)									
	CARBON MONOXIDE									
	บริเวณท่าเรือสินค้าบริเวณท่าเรือ									
	SEPTEMBER 23-24, 2023	SEPTEMBER 24-25, 2023	SEPTEMBER 25-26, 2023	SEPTEMBER 26-27, 2023	SEPTEMBER 27-28, 2023					
	TZ3AT317-0006	TZ3AT317-0007	TZ3AT317-0008	TZ3AT317-0009	TZ3AT317-0010					
08:00-09:00 HOUR	1.33	1.31	1.39	1.36	1.32					
09:00-10:00 HOUR	1.39	1.38	1.32	1.38	1.33					
10:00-11:00 HOUR	1.35	1.33	1.40	1.40	1.31					
11:00-12:00 HOUR	1.35	1.33	1.35	1.33	1.32					
12:00-13:00 HOUR	1.37	1.32	1.30	1.32	1.39					
13:00-14:00 HOUR	1.38	1.35	1.37	1.39	1.34					
14:00-15:00 HOUR	1.37	1.33	1.31	1.31	1.40					
15:00-16:00 HOUR	1.32	1.33	1.31	1.38	1.30					
16:00-17:00 HOUR	1.36	1.31	1.32	1.33	1.38					
17:00-18:00 HOUR	1.31	1.35	1.36	1.31	1.30					
18:00-19:00 HOUR	1.36	1.32	1.40	1.32	1.34					
19:00-20:00 HOUR	1.36	1.38	1.35	1.30	1.32					
20:00-21:00 HOUR	1.33	1.32	1.36	1.38	1.38					
21:00-22:00 HOUR	1.33	1.30	1.36	1.34	1.40					
22:00-23:00 HOUR	1.29	1.27	1.32	1.31	1.31					
23:00-00:00 HOUR	1.25	1.25	1.28	1.29	1.30					
00:00-01:00 HOUR	1.25	1.21	1.28	1.21	1.29					
01:00-02:00 HOUR	1.28	1.24	1.28	1.21	1.28					
02:00-03:00 HOUR	1.29	1.26	1.25	1.26	1.21					
03:00-04:00 HOUR	1.22	1.21	1.23	1.27	1.25					
04:00-05:00 HOUR	1.30	1.29	1.29	1.26	1.30					
05:00-06:00 HOUR	1.27	1.30	1.21	1.27	1.34					
06:00-07:00 HOUR	1.30	1.33	1.29	1.27	1.33					
07:00-08:00 HOUR	1.33	1.31	1.32	1.29	1.34					

hid 7p

(MR SILA BANONGDAIRUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phra Khanong, Bangkok 10260
Tel. 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uaee@uaeconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเรือสินค้า บริเวณ เขต อรัญ พรหม จ.ภูเก็ต
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเรือสินค้าบริเวณท่าเรือ
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085571
WORK NO. : 2022-008114
ANALYSIS NO. : TZ3AT317-0001 - TZ3AT317-0005

TIME *	RESULT (ppm)									
	CARBON MONOXIDE									
	บริเวณท่าเรือสินค้าบริเวณท่าเรือ									
	SEPTEMBER 23-24, 2023	SEPTEMBER 24-25, 2023	SEPTEMBER 25-26, 2023	SEPTEMBER 26-27, 2023	SEPTEMBER 27-28, 2023					
	TZ3AT317-0001	TZ3AT317-0002	TZ3AT317-0003	TZ3AT317-0004	TZ3AT317-0005					
08:00-09:00 HOUR	1.33	1.37	1.40	1.40	1.37					
09:00-10:00 HOUR	1.30	1.30	1.33	1.31	1.31					
10:00-11:00 HOUR	1.37	1.38	1.35	1.32	1.40					
11:00-12:00 HOUR	1.33	1.37	1.38	1.31	1.37					
12:00-13:00 HOUR	1.40	1.38	1.35	1.39	1.31					
13:00-14:00 HOUR	1.32	1.33	1.35	1.34	1.31					
14:00-15:00 HOUR	1.37	1.39	1.34	1.34	1.32					
15:00-16:00 HOUR	1.38	1.37	1.34	1.33	1.35					
16:00-17:00 HOUR	1.34	1.31	1.36	1.37	1.36					
17:00-18:00 HOUR	1.31	1.36	1.35	1.33	1.34					
18:00-19:00 HOUR	1.31	1.38	1.31	1.32	1.39					
19:00-20:00 HOUR	1.32	1.36	1.35	1.30	1.34					
20:00-21:00 HOUR	1.31	1.34	1.33	1.33	1.32					
21:00-22:00 HOUR	1.29	1.33	1.32	1.29	1.30					
22:00-23:00 HOUR	1.28	1.29	1.29	1.22	1.21					
23:00-00:00 HOUR	1.23	1.29	1.23	1.28	1.25					
00:00-01:00 HOUR	1.30	1.23	1.23	1.24	1.29					
01:00-02:00 HOUR	1.26	1.25	1.21	1.21	1.27					
02:00-03:00 HOUR	1.23	1.28	1.24	1.27	1.27					
03:00-04:00 HOUR	1.27	1.22	1.23	1.29	1.22					
04:00-05:00 HOUR	1.29	1.20	1.25	1.30	1.21					
05:00-06:00 HOUR	1.30	1.27	1.29	1.32	1.28					
06:00-07:00 HOUR	1.31	1.31	1.32	1.40	1.34					
07:00-08:00 HOUR	1.32	1.37	1.33	1.38	1.37					

hid 7p

(MR SILA BANONGDAIRUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริเวณ สะพานมิตรภาพ ไทย-ลาว
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือ
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085576
WORK NO. : 2022-008114
ANALYSIS NO. : TZ3AT317-0016 - TZ3AT317-0020

TIME *	RESULT (ppm)					
	CARBON MONOXIDE					
	บริเวณท่าเทียบเรือ					
	SEPTEMBER 23-24, 2023	SEPTEMBER 24-25, 2023	SEPTEMBER 25-26, 2023	SEPTEMBER 26-27, 2023	SEPTEMBER 27-28, 2023	
	TZ3AT317-0016	TZ3AT317-0017	TZ3AT317-0018	TZ3AT317-0019	TZ3AT317-0020	
08:00-09:00 HOUR	1.33	1.39	1.32	1.24	1.30	
09:00-10:00 HOUR	1.33	1.33	1.33	1.27	1.40	
10:00-11:00 HOUR	1.38	1.40	1.30	1.33	1.35	
11:00-12:00 HOUR	1.38	1.34	1.39	1.37	1.34	
12:00-13:00 HOUR	1.31	1.35	1.36	1.33	1.38	
13:00-14:00 HOUR	1.34	1.32	1.39	1.36	1.40	
14:00-15:00 HOUR	1.40	1.39	1.34	1.33	1.31	
15:00-16:00 HOUR	1.33	1.37	1.33	1.35	1.33	
16:00-17:00 HOUR	1.32	1.36	1.33	1.39	1.36	
17:00-18:00 HOUR	1.32	1.39	1.35	1.40	1.39	
18:00-19:00 HOUR	1.30	1.34	1.33	1.35	1.30	
19:00-20:00 HOUR	1.31	1.33	1.33	1.33	1.30	
20:00-21:00 HOUR	1.27	1.39	1.38	1.33	1.30	
21:00-22:00 HOUR	1.25	1.32	1.30	1.38	1.36	
22:00-23:00 HOUR	1.22	1.30	1.36	1.29	1.34	
23:00-00:00 HOUR	1.25	1.23	1.38	1.25	1.30	
00:00-01:00 HOUR	1.27	1.23	1.34	1.27	1.24	
01:00-02:00 HOUR	1.22	1.27	1.31	1.20	1.29	
02:00-03:00 HOUR	1.26	1.26	1.29	1.22	1.29	
03:00-04:00 HOUR	1.28	1.27	1.25	1.21	1.21	
04:00-05:00 HOUR	1.30	1.26	1.25	1.22	1.21	
05:00-06:00 HOUR	1.31	1.22	1.27	1.28	1.28	
06:00-07:00 HOUR	1.30	1.29	1.27	1.34	1.37	
07:00-08:00 HOUR	1.36	1.29	1.25	1.35	1.30	

hid 7p
(MR SILA BANDONGAIRUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริเวณ สะพานมิตรภาพ ไทย-ลาว
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือ
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085573
WORK NO. : 2022-008114
ANALYSIS NO. : TZ3AT317-0011 - TZ3AT317-0015

TIME *	RESULT (ppm)					
	CARBON MONOXIDE					
	บริเวณท่าเทียบเรือ					
	SEPTEMBER 23-24, 2023	SEPTEMBER 24-25, 2023	SEPTEMBER 25-26, 2023	SEPTEMBER 26-27, 2023	SEPTEMBER 27-28, 2023	
	TZ3AT317-0011	TZ3AT317-0012	TZ3AT317-0013	TZ3AT317-0014	TZ3AT317-0015	
08:00-09:00 HOUR	1.40	1.48	1.36	1.40	1.44	
09:00-10:00 HOUR	1.46	1.40	1.40	1.45	1.40	
10:00-11:00 HOUR	1.46	1.44	1.41	1.46	1.41	
11:00-12:00 HOUR	1.49	1.47	1.50	1.48	1.48	
12:00-13:00 HOUR	1.42	1.50	1.47	1.48	1.46	
13:00-14:00 HOUR	1.41	1.49	1.46	1.43	1.49	
14:00-15:00 HOUR	1.45	1.46	1.48	1.44	1.49	
15:00-16:00 HOUR	1.49	1.47	1.49	1.45	1.44	
16:00-17:00 HOUR	1.46	1.43	1.41	1.47	1.43	
17:00-18:00 HOUR	1.48	1.41	1.44	1.48	1.50	
18:00-19:00 HOUR	1.49	1.47	1.47	1.46	1.41	
19:00-20:00 HOUR	1.46	1.46	1.44	1.44	1.48	
20:00-21:00 HOUR	1.47	1.42	1.41	1.49	1.43	
21:00-22:00 HOUR	1.43	1.45	1.39	1.43	1.45	
22:00-23:00 HOUR	1.40	1.40	1.35	1.43	1.41	
23:00-00:00 HOUR	1.40	1.39	1.36	1.46	1.40	
00:00-01:00 HOUR	1.36	1.37	1.34	1.40	1.32	
01:00-02:00 HOUR	1.33	1.32	1.30	1.39	1.37	
02:00-03:00 HOUR	1.35	1.38	1.32	1.30	1.36	
03:00-04:00 HOUR	1.36	1.34	1.35	1.38	1.35	
04:00-05:00 HOUR	1.37	1.31	1.30	1.38	1.36	
05:00-06:00 HOUR	1.40	1.34	1.36	1.35	1.39	
06:00-07:00 HOUR	1.42	1.36	1.35	1.38	1.42	
07:00-08:00 HOUR	1.42	1.35	1.39	1.41	1.45	

hid 7p
(MR SILA BANDONGAIRUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaconsultant.com E-mail: uae@uaconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เจริญ พอลิเมอร์ จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือของบริษัท
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
MEASURING METHOD : CHEMILUMINESCENCE
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085579
WORK NO. : 2022-008114
ANALYSIS NO. : TZ3AT317-0010

TIME *	RESULT (ppm)				
	NITROGEN DIOXIDE				
	บริเวณท่าเทียบเรือของบริษัท				
SEPTEMBER 23-24, 2023	SEPTEMBER 24-25, 2023	SEPTEMBER 25-26, 2023	SEPTEMBER 26-27, 2023	SEPTEMBER 27-28, 2023	
	TZ3AT317-0006	TZ3AT317-0007	TZ3AT317-0008	TZ3AT317-0009	TZ3AT317-0010
08:00-09:00 HOUR	0.0082	0.0073	0.0067	0.0076	0.0069
09:00-10:00 HOUR	0.0071	0.0077	0.0076	0.0071	0.0077
10:00-11:00 HOUR	0.0073	0.0081	0.0079	0.0075	0.0066
11:00-12:00 HOUR	0.0077	0.0077	0.0072	0.0070	0.0074
12:00-13:00 HOUR	0.0070	0.0077	0.0077	0.0071	0.0077
13:00-14:00 HOUR	0.0077	0.0085	0.0069	0.0082	0.0078
14:00-15:00 HOUR	0.0083	0.0069	0.0065	0.0067	0.0071
15:00-16:00 HOUR	0.0064	0.0075	0.0079	0.0069	0.0069
16:00-17:00 HOUR	0.0077	0.0069	0.0077	0.0068	0.0074
17:00-18:00 HOUR	0.0082	0.0082	0.0074	0.0074	0.0080
18:00-19:00 HOUR	0.0069	0.0084	0.0076	0.0076	0.0068
19:00-20:00 HOUR	0.0071	0.0079	0.0070	0.0073	0.0069
20:00-21:00 HOUR	0.0065	0.0081	0.0069	0.0073	0.0071
21:00-22:00 HOUR	0.0071	0.0073	0.0068	0.0066	0.0065
22:00-23:00 HOUR	0.0071	0.0074	0.0066	0.0069	0.0066
23:00-00:00 HOUR	0.0072	0.0067	0.0067	0.0065	0.0073
00:00-01:00 HOUR	0.0067	0.0064	0.0063	0.0068	0.0062
01:00-02:00 HOUR	0.0069	0.0067	0.0066	0.0072	0.0071
02:00-03:00 HOUR	0.0067	0.0071	0.0059	0.0066	0.0084
03:00-04:00 HOUR	0.0063	0.0070	0.0075	0.0062	0.0075
04:00-05:00 HOUR	0.0065	0.0069	0.0071	0.0072	0.0065
05:00-06:00 HOUR	0.0060	0.0071	0.0071	0.0074	0.0077
06:00-07:00 HOUR	0.0064	0.0077	0.0071	0.0067	0.0081
07:00-08:00 HOUR	0.0070	0.0077	0.0073	0.0073	0.0077

Sila Banjongairuk

(MR SILA BANJONGAIRUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaconsultant.com E-mail: uae@uaconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เจริญ พอลิเมอร์ จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือของบริษัท
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
MEASURING METHOD : CHEMILUMINESCENCE
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085578
WORK NO. : 2022-008114
ANALYSIS NO. : TZ3AT317-0005

TIME *	RESULT (ppm)				
	NITROGEN DIOXIDE				
	บริเวณท่าเทียบเรือของบริษัท				
SEPTEMBER 23-24, 2023	SEPTEMBER 24-25, 2023	SEPTEMBER 25-26, 2023	SEPTEMBER 26-27, 2023	SEPTEMBER 27-28, 2023	
	TZ3AT317-0001	TZ3AT317-0002	TZ3AT317-0003	TZ3AT317-0004	TZ3AT317-0005
08:00-09:00 HOUR	0.0088	0.0082	0.0071	0.0077	0.0071
09:00-10:00 HOUR	0.0077	0.0080	0.0083	0.0080	0.0084
10:00-11:00 HOUR	0.0081	0.0082	0.0085	0.0078	0.0080
11:00-12:00 HOUR	0.0072	0.0085	0.0075	0.0078	0.0078
12:00-13:00 HOUR	0.0074	0.0078	0.0071	0.0076	0.0085
13:00-14:00 HOUR	0.0083	0.0082	0.0078	0.0077	0.0071
14:00-15:00 HOUR	0.0077	0.0072	0.0073	0.0079	0.0081
15:00-16:00 HOUR	0.0082	0.0081	0.0083	0.0082	0.0075
16:00-17:00 HOUR	0.0071	0.0083	0.0079	0.0083	0.0067
17:00-18:00 HOUR	0.0080	0.0079	0.0081	0.0076	0.0074
18:00-19:00 HOUR	0.0075	0.0074	0.0081	0.0085	0.0084
19:00-20:00 HOUR	0.0078	0.0076	0.0070	0.0069	0.0075
20:00-21:00 HOUR	0.0075	0.0076	0.0080	0.0082	0.0081
21:00-22:00 HOUR	0.0077	0.0071	0.0075	0.0074	0.0074
22:00-23:00 HOUR	0.0076	0.0076	0.0075	0.0081	0.0074
23:00-00:00 HOUR	0.0082	0.0072	0.0083	0.0073	0.0079
00:00-01:00 HOUR	0.0074	0.0081	0.0072	0.0086	0.0076
01:00-02:00 HOUR	0.0078	0.0080	0.0087	0.0075	0.0088
02:00-03:00 HOUR	0.0083	0.0079	0.0082	0.0075	0.0073
03:00-04:00 HOUR	0.0068	0.0081	0.0080	0.0079	0.0068
04:00-05:00 HOUR	0.0070	0.0078	0.0073	0.0078	0.0075
05:00-06:00 HOUR	0.0082	0.0083	0.0079	0.0084	0.0088
06:00-07:00 HOUR	0.0074	0.0079	0.0072	0.0073	0.0078
07:00-08:00 HOUR	0.0073	0.0077	0.0082	0.0084	0.0084

Sila Banjongairuk

(MR SILA BANJONGAIRUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel 0 2763 2828 Fax 0 2763 2800 www.uaec consultant.com E-mail: uaec@uaec consultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เจริญ พอร์ต จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือ
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
MEASURING METHOD : CHEMILUMINESCENCE
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085581
WORK NO. : 2022-008114
ANALYSIS NO. : TZ3AT317-0016 - TZ3AT317-0020

TIME *	RESULT (ppm)									
	NITROGEN DIOXIDE									
	บริเวณท่าเทียบเรือ									
	SEPTEMBER 23-24, 2023		SEPTEMBER 24-25, 2023		SEPTEMBER 25-26, 2023		SEPTEMBER 26-27, 2023		SEPTEMBER 27-28, 2023	
	TZ3AT317-0016		TZ3AT317-0017		TZ3AT317-0018		TZ3AT317-0019		TZ3AT317-0020	
08:00-09:00 HOUR	0.0073	0.0067	0.0066	0.0073	0.0070	0.0078	0.0067	0.0070	0.0078	0.0067
09:00-10:00 HOUR	0.0080	0.0072	0.0071	0.0070	0.0069	0.0067	0.0069	0.0070	0.0078	0.0067
10:00-11:00 HOUR	0.0070	0.0077	0.0078	0.0076	0.0074	0.0076	0.0076	0.0076	0.0076	0.0080
11:00-12:00 HOUR	0.0073	0.0069	0.0074	0.0076	0.0078	0.0066	0.0069	0.0070	0.0078	0.0066
12:00-13:00 HOUR	0.0072	0.0067	0.0075	0.0078	0.0076	0.0066	0.0078	0.0076	0.0078	0.0067
13:00-14:00 HOUR	0.0066	0.0071	0.0066	0.0078	0.0072	0.0066	0.0078	0.0076	0.0078	0.0067
14:00-15:00 HOUR	0.0072	0.0069	0.0072	0.0069	0.0072	0.0066	0.0078	0.0076	0.0078	0.0067
15:00-16:00 HOUR	0.0064	0.0069	0.0076	0.0071	0.0071	0.0067	0.0078	0.0076	0.0078	0.0067
16:00-17:00 HOUR	0.0066	0.0071	0.0075	0.0073	0.0070	0.0076	0.0078	0.0076	0.0078	0.0067
17:00-18:00 HOUR	0.0066	0.0077	0.0074	0.0070	0.0069	0.0067	0.0078	0.0076	0.0078	0.0067
18:00-19:00 HOUR	0.0072	0.0065	0.0068	0.0069	0.0069	0.0067	0.0078	0.0076	0.0078	0.0067
19:00-20:00 HOUR	0.0075	0.0063	0.0077	0.0065	0.0069	0.0067	0.0078	0.0076	0.0078	0.0067
20:00-21:00 HOUR	0.0072	0.0066	0.0077	0.0074	0.0074	0.0078	0.0078	0.0076	0.0078	0.0067
21:00-22:00 HOUR	0.0067	0.0072	0.0075	0.0076	0.0076	0.0077	0.0078	0.0076	0.0078	0.0067
22:00-23:00 HOUR	0.0067	0.0070	0.0077	0.0063	0.0073	0.0078	0.0078	0.0076	0.0078	0.0067
23:00-00:00 HOUR	0.0080	0.0072	0.0074	0.0076	0.0076	0.0078	0.0078	0.0076	0.0078	0.0067
00:00-01:00 HOUR	0.0074	0.0066	0.0074	0.0075	0.0075	0.0066	0.0078	0.0076	0.0078	0.0067
01:00-02:00 HOUR	0.0066	0.0068	0.0072	0.0079	0.0079	0.0067	0.0078	0.0076	0.0078	0.0067
02:00-03:00 HOUR	0.0081	0.0081	0.0065	0.0069	0.0069	0.0079	0.0078	0.0076	0.0078	0.0067
03:00-04:00 HOUR	0.0073	0.0079	0.0070	0.0081	0.0081	0.0075	0.0078	0.0076	0.0078	0.0067
04:00-05:00 HOUR	0.0074	0.0073	0.0072	0.0072	0.0072	0.0070	0.0078	0.0076	0.0078	0.0067
05:00-06:00 HOUR	0.0071	0.0069	0.0075	0.0078	0.0078	0.0080	0.0078	0.0076	0.0078	0.0067
06:00-07:00 HOUR	0.0076	0.0064	0.0078	0.0073	0.0073	0.0064	0.0078	0.0076	0.0078	0.0067
07:00-08:00 HOUR	0.0074	0.0071	0.0082	0.0067	0.0067	0.0077	0.0078	0.0076	0.0078	0.0067

hrit

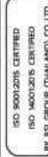
(MR SILA BANJONGAIRUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

- PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
- THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/1

- End of Analysis Report -



NO. 00020000000000000000
NO. 00020000000000000000
BY: 00000000000000000000



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel 0 2763 2828 Fax 0 2763 2800 www.uaec consultant.com E-mail: uaec@uaec consultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เจริญ พอร์ต จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือ
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
MEASURING METHOD : CHEMILUMINESCENCE
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085580
WORK NO. : 2022-008114
ANALYSIS NO. : TZ3AT317-0011 - TZ3AT317-0015

TIME *	RESULT (ppm)									
	NITROGEN DIOXIDE									
	บริเวณท่าเทียบเรือ									
	SEPTEMBER 23-24, 2023		SEPTEMBER 24-25, 2023		SEPTEMBER 25-26, 2023		SEPTEMBER 26-27, 2023		SEPTEMBER 27-28, 2023	
	TZ3AT317-0011		TZ3AT317-0012		TZ3AT317-0013		TZ3AT317-0014		TZ3AT317-0015	
08:00-09:00 HOUR	0.0085	0.0095	0.0095	0.0087	0.0091	0.0086	0.0091	0.0091	0.0086	0.0086
09:00-10:00 HOUR	0.0093	0.0090	0.0099	0.0095	0.0099	0.0084	0.0093	0.0093	0.0092	0.0084
10:00-11:00 HOUR	0.0087	0.0099	0.0094	0.0094	0.0093	0.0092	0.0093	0.0093	0.0092	0.0084
11:00-12:00 HOUR	0.0091	0.0091	0.0091	0.0095	0.0095	0.0081	0.0093	0.0093	0.0081	0.0081
12:00-13:00 HOUR	0.0086	0.0094	0.0094	0.0085	0.0089	0.0089	0.0089	0.0089	0.0089	0.0089
13:00-14:00 HOUR	0.0089	0.0089	0.0089	0.0098	0.0091	0.0086	0.0091	0.0091	0.0086	0.0086
14:00-15:00 HOUR	0.0090	0.0099	0.0099	0.0084	0.0092	0.0090	0.0092	0.0092	0.0090	0.0090
15:00-16:00 HOUR	0.0083	0.0090	0.0090	0.0080	0.0088	0.0090	0.0088	0.0088	0.0090	0.0090
16:00-17:00 HOUR	0.0093	0.0089	0.0089	0.0083	0.0085	0.0088	0.0085	0.0085	0.0088	0.0088
17:00-18:00 HOUR	0.0089	0.0085	0.0085	0.0087	0.0086	0.0092	0.0086	0.0086	0.0092	0.0088
18:00-19:00 HOUR	0.0085	0.0088	0.0088	0.0097	0.0097	0.0086	0.0097	0.0097	0.0086	0.0088
19:00-20:00 HOUR	0.0099	0.0089	0.0089	0.0081	0.0081	0.0080	0.0081	0.0081	0.0080	0.0084
20:00-21:00 HOUR	0.0090	0.0092	0.0092	0.0091	0.0091	0.0086	0.0091	0.0091	0.0086	0.0086
21:00-22:00 HOUR	0.0087	0.0082	0.0082	0.0085	0.0085	0.0092	0.0082	0.0082	0.0092	0.0092
22:00-23:00 HOUR	0.0083	0.0090	0.0090	0.0080	0.0080	0.0088	0.0090	0.0090	0.0088	0.0088
23:00-00:00 HOUR	0.0081	0.0085	0.0085	0.0080	0.0080	0.0077	0.0084	0.0084	0.0077	0.0077
00:00-01:00 HOUR	0.0074	0.0084	0.0084	0.0076	0.0075	0.0082	0.0074	0.0075	0.0082	0.0082
01:00-02:00 HOUR	0.0079	0.0085	0.0085	0.0072	0.0072	0.0078	0.0079	0.0079	0.0078	0.0078
02:00-03:00 HOUR	0.0074	0.0074	0.0074	0.0078	0.0078	0.0073	0.0074	0.0074	0.0073	0.0073
03:00-04:00 HOUR	0.0070	0.0067	0.0067	0.0072	0.0072	0.0071	0.0072	0.0072	0.0071	0.0071
04:00-05:00 HOUR	0.0075	0.0081	0.0081	0.0076	0.0076	0.0089	0.0076	0.0076	0.0089	0.0089
05:00-06:00 HOUR	0.0081	0.0081	0.0077	0.0083	0.0083	0.0079	0.0083	0.0083	0.0079	0.0083
06:00-07:00 HOUR	0.0077	0.0080	0.0080	0.0081	0.0081	0.0082	0.0081	0.0081	0.0082	0.0089
07:00-08:00 HOUR	0.0084	0.0086	0.0086	0.0089	0.0089	0.0090	0.0089	0.0089	0.0090	0.0090

hrit

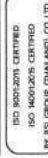
(MR SILA BANJONGAIRUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

- PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
- THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/1

- End of Analysis Report -



NO. 00020000000000000000
NO. 00020000000000000000
BY: 00000000000000000000



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel 0 2763 2828 Fax 0 2763 2800 www.uaec consultant.com E-mail: uaec@uaec consultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เอสซี แบริน พอร์ต จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือของบริษัท
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
RECEIVED DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085583
WORK NO. : 2022-008114
MEASURING METHOD : UV FLUORESCENCE
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

TIME *	RESULT (ppm)				
	SULPHUR DIOXIDE				
	บริเวณท่าเทียบเรือของบริษัท				
	SEPTEMBER 23-24, 2023 TZ3AT317-0006	SEPTEMBER 24-25, 2023 TZ3AT317-0007	SEPTEMBER 25-26, 2023 TZ3AT317-0008	SEPTEMBER 26-27, 2023 TZ3AT317-0009	SEPTEMBER 27-28, 2023 TZ3AT317-0010
08:00-09:00 HOUR	0.0031	0.0034	0.0031	0.0034	0.0032
09:00-10:00 HOUR	0.0039	0.0034	0.0035	0.0031	0.0035
10:00-11:00 HOUR	0.0037	0.0040	0.0037	0.0039	0.0030
11:00-12:00 HOUR	0.0034	0.0030	0.0032	0.0039	0.0033
12:00-13:00 HOUR	0.0035	0.0030	0.0035	0.0036	0.0039
13:00-14:00 HOUR	0.0034	0.0039	0.0034	0.0032	0.0032
14:00-15:00 HOUR	0.0036	0.0035	0.0030	0.0032	0.0040
15:00-16:00 HOUR	0.0039	0.0032	0.0040	0.0030	0.0036
16:00-17:00 HOUR	0.0032	0.0034	0.0040	0.0035	0.0034
17:00-18:00 HOUR	0.0030	0.0037	0.0039	0.0030	0.0030
18:00-19:00 HOUR	0.0038	0.0038	0.0033	0.0031	0.0038
19:00-20:00 HOUR	0.0034	0.0032	0.0032	0.0037	0.0036
20:00-21:00 HOUR	0.0029	0.0028	0.0030	0.0035	0.0037
21:00-22:00 HOUR	0.0030	0.0025	0.0029	0.0039	0.0039
22:00-23:00 HOUR	0.0026	0.0022	0.0022	0.0038	0.0040
23:00-00:00 HOUR	0.0023	0.0024	0.0029	0.0030	0.0035
00:00-01:00 HOUR	0.0026	0.0024	0.0025	0.0029	0.0033
01:00-02:00 HOUR	0.0027	0.0025	0.0029	0.0024	0.0033
02:00-03:00 HOUR	0.0028	0.0030	0.0026	0.0023	0.0028
03:00-04:00 HOUR	0.0030	0.0032	0.0027	0.0023	0.0027
04:00-05:00 HOUR	0.0040	0.0034	0.0029	0.0028	0.0026
05:00-06:00 HOUR	0.0039	0.0039	0.0032	0.0027	0.0026
06:00-07:00 HOUR	0.0038	0.0038	0.0034	0.0026	0.0025
07:00-08:00 HOUR	0.0040	0.0031	0.0039	0.0029	0.0029
AVERAGE 24 HOUR	0.0033	0.0032	0.0032	0.0032	0.0033

hid 7u
(MR SILA BANJONGAIRUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel 0 2763 2828 Fax 0 2763 2800 www.uaec consultant.com E-mail: uaec@uaec consultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เอสซี แบริน พอร์ต จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือของบริษัท
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
RECEIVED DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085582
WORK NO. : 2022-008114
MEASURING METHOD : UV FLUORESCENCE
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

TIME *	RESULT (ppm)				
	SULPHUR DIOXIDE				
	บริเวณท่าเทียบเรือของบริษัท				
	SEPTEMBER 23-24, 2023 TZ3AT317-0001	SEPTEMBER 24-25, 2023 TZ3AT317-0002	SEPTEMBER 25-26, 2023 TZ3AT317-0003	SEPTEMBER 26-27, 2023 TZ3AT317-0004	SEPTEMBER 27-28, 2023 TZ3AT317-0005
08:00-09:00 HOUR	0.0034	0.0034	0.0038	0.0031	0.0032
09:00-10:00 HOUR	0.0039	0.0036	0.0035	0.0031	0.0035
10:00-11:00 HOUR	0.0033	0.0035	0.0034	0.0039	0.0039
11:00-12:00 HOUR	0.0036	0.0039	0.0031	0.0034	0.0034
12:00-13:00 HOUR	0.0039	0.0032	0.0035	0.0030	0.0036
13:00-14:00 HOUR	0.0032	0.0039	0.0038	0.0031	0.0030
14:00-15:00 HOUR	0.0035	0.0038	0.0036	0.0033	0.0032
15:00-16:00 HOUR	0.0034	0.0039	0.0036	0.0030	0.0035
16:00-17:00 HOUR	0.0030	0.0034	0.0037	0.0037	0.0033
17:00-18:00 HOUR	0.0034	0.0032	0.0035	0.0035	0.0039
18:00-19:00 HOUR	0.0035	0.0029	0.0033	0.0032	0.0037
19:00-20:00 HOUR	0.0038	0.0028	0.0033	0.0034	0.0035
20:00-21:00 HOUR	0.0036	0.0027	0.0033	0.0032	0.0034
21:00-22:00 HOUR	0.0037	0.0026	0.0033	0.0038	0.0039
22:00-23:00 HOUR	0.0036	0.0029	0.0029	0.0038	0.0032
23:00-00:00 HOUR	0.0032	0.0028	0.0025	0.0036	0.0028
00:00-01:00 HOUR	0.0028	0.0027	0.0028	0.0032	0.0029
01:00-02:00 HOUR	0.0025	0.0030	0.0030	0.0029	0.0023
02:00-03:00 HOUR	0.0027	0.0037	0.0024	0.0027	0.0021
03:00-04:00 HOUR	0.0030	0.0032	0.0026	0.0023	0.0024
04:00-05:00 HOUR	0.0027	0.0034	0.0029	0.0022	0.0025
05:00-06:00 HOUR	0.0026	0.0036	0.0032	0.0026	0.0030
06:00-07:00 HOUR	0.0029	0.0038	0.0039	0.0027	0.0025
07:00-08:00 HOUR	0.0030	0.0035	0.0033	0.0029	0.0029
AVERAGE 24 HOUR	0.0033	0.0033	0.0033	0.0032	0.0032

hid 7u
(MR SILA BANJONGAIRUK)
LABORATORY SUPERVISOR

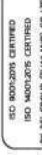
OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -





United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax.0 2763 2800 www.uaconsultant.com E-mail:uae@uaconsultant.com



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax.0 2763 2800 www.uaconsultant.com E-mail:uae@uaconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เจริญโภคภัณฑ์อาหาร
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือ
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085585
WORK NO. : 2022-008114
MEASURING METHOD : UV FLUORESCENCE
MEASURED BY : MR SIRAPAT JONGPHADUNGKIEAT
ANALYSIS NO. : T23AT317-0016 - T23AT317-0020

TIME *	RESULT (ppm)					
	SULPHUR DIOXIDE					
	ปริมาณสารไดออกไซด์					
	SEPTEMBER 23-24, 2023 T23AT317-0016	SEPTEMBER 24-25, 2023 T23AT317-0017	SEPTEMBER 25-26, 2023 T23AT317-0018	SEPTEMBER 26-27, 2023 T23AT317-0019	SEPTEMBER 27-28, 2023 T23AT317-0020	
08:00-09:00 HOUR	0.0021	0.0024	0.0026	0.0022	0.0029	
09:00-10:00 HOUR	0.0025	0.0020	0.0023	0.0028	0.0025	
10:00-11:00 HOUR	0.0024	0.0025	0.0026	0.0027	0.0024	
11:00-12:00 HOUR	0.0026	0.0021	0.0028	0.0029	0.0022	
12:00-13:00 HOUR	0.0026	0.0027	0.0023	0.0021	0.0024	
13:00-14:00 HOUR	0.0026	0.0026	0.0029	0.0024	0.0027	
14:00-15:00 HOUR	0.0020	0.0023	0.0025	0.0030	0.0026	
15:00-16:00 HOUR	0.0027	0.0020	0.0025	0.0022	0.0029	
16:00-17:00 HOUR	0.0025	0.0022	0.0025	0.0028	0.0025	
17:00-18:00 HOUR	0.0028	0.0030	0.0024	0.0026	0.0024	
18:00-19:00 HOUR	0.0023	0.0020	0.0027	0.0028	0.0028	
19:00-20:00 HOUR	0.0022	0.0029	0.0021	0.0026	0.0025	
20:00-21:00 HOUR	0.0025	0.0023	0.0025	0.0027	0.0028	
21:00-22:00 HOUR	0.0022	0.0030	0.0029	0.0025	0.0029	
22:00-23:00 HOUR	0.0025	0.0030	0.0028	0.0020	0.0029	
23:00-00:00 HOUR	0.0026	0.0028	0.0022	0.0029	0.0022	
00:00-01:00 HOUR	0.0021	0.0024	0.0022	0.0027	0.0028	
01:00-02:00 HOUR	0.0023	0.0023	0.0023	0.0029	0.0027	
02:00-03:00 HOUR	0.0025	0.0021	0.0028	0.0020	0.0026	
03:00-04:00 HOUR	0.0024	0.0024	0.0023	0.0030	0.0022	
04:00-05:00 HOUR	0.0028	0.0022	0.0029	0.0023	0.0027	
05:00-06:00 HOUR	0.0021	0.0023	0.0024	0.0020	0.0022	
06:00-07:00 HOUR	0.0021	0.0022	0.0029	0.0021	0.0027	
07:00-08:00 HOUR	0.0022	0.0023	0.0029	0.0028	0.0023	
AVERAGE 24 HOUR	0.0024	0.0024	0.0026	0.0025	0.0025	

bit 7p
(MR SILA BANJONGAIRUK)
LABORATORY SUPERVISOR

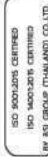
OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -



ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เจริญโภคภัณฑ์อาหาร
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือ
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085584
WORK NO. : 2022-008114
MEASURING METHOD : UV FLUORESCENCE
MEASURED BY : MR SIRAPAT JONGPHADUNGKIEAT
ANALYSIS NO. : T23AT317-0011 - T23AT317-0015

TIME *	RESULT (ppm)					
	SULPHUR DIOXIDE					
	ปริมาณสารไดออกไซด์					
	SEPTEMBER 23-24, 2023 T23AT317-0011	SEPTEMBER 24-25, 2023 T23AT317-0012	SEPTEMBER 25-26, 2023 T23AT317-0013	SEPTEMBER 26-27, 2023 T23AT317-0014	SEPTEMBER 27-28, 2023 T23AT317-0015	
08:00-09:00 HOUR	0.0045	0.0047	0.0048	0.0044	0.0047	
09:00-10:00 HOUR	0.0048	0.0048	0.0040	0.0045	0.0049	
10:00-11:00 HOUR	0.0043	0.0044	0.0046	0.0048	0.0046	
11:00-12:00 HOUR	0.0047	0.0050	0.0047	0.0047	0.0045	
12:00-13:00 HOUR	0.0047	0.0048	0.0046	0.0041	0.0041	
13:00-14:00 HOUR	0.0041	0.0044	0.0046	0.0045	0.0045	
14:00-15:00 HOUR	0.0044	0.0042	0.0042	0.0043	0.0044	
15:00-16:00 HOUR	0.0049	0.0048	0.0043	0.0041	0.0040	
16:00-17:00 HOUR	0.0041	0.0043	0.0047	0.0044	0.0047	
17:00-18:00 HOUR	0.0039	0.0041	0.0040	0.0049	0.0041	
18:00-19:00 HOUR	0.0032	0.0044	0.0039	0.0045	0.0044	
19:00-20:00 HOUR	0.0037	0.0041	0.0038	0.0041	0.0045	
20:00-21:00 HOUR	0.0033	0.0039	0.0035	0.0044	0.0049	
21:00-22:00 HOUR	0.0036	0.0039	0.0039	0.0041	0.0050	
22:00-23:00 HOUR	0.0038	0.0037	0.0037	0.0038	0.0040	
23:00-00:00 HOUR	0.0035	0.0039	0.0034	0.0037	0.0039	
00:00-01:00 HOUR	0.0034	0.0032	0.0032	0.0037	0.0033	
01:00-02:00 HOUR	0.0039	0.0034	0.0034	0.0039	0.0032	
02:00-03:00 HOUR	0.0032	0.0036	0.0035	0.0035	0.0036	
03:00-04:00 HOUR	0.0031	0.0038	0.0037	0.0036	0.0039	
04:00-05:00 HOUR	0.0033	0.0039	0.0038	0.0031	0.0039	
05:00-06:00 HOUR	0.0039	0.0041	0.0040	0.0037	0.0041	
06:00-07:00 HOUR	0.0045	0.0049	0.0043	0.0039	0.0043	
07:00-08:00 HOUR	0.0046	0.0044	0.0045	0.0044	0.0047	
AVERAGE 24 HOUR	0.0040	0.0042	0.0040	0.0041	0.0043	

bit 7p
(MR SILA BANJONGAIRUK)
LABORATORY SUPERVISOR

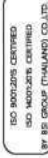
OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -





United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax.0 2763 2800 www.uaconsultant.com E-mail: ua@uaconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เอส ซี กรุ๊ป จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือของบริษัท
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085587
WORK NO. : 2022-008114
ANALYSIS NO. : T23AT317-0006 - T23AT317-0010

TIME *	RESULT (m/s)											
	SEPTEMBER 23-24, 2023	SEPTEMBER 24-25, 2023	SEPTEMBER 25-26, 2023	SEPTEMBER 26-27, 2023	SEPTEMBER 27-28, 2023							
	T23AT317-0006 WIND SPEED DIRECTION	T23AT317-0007 WIND SPEED DIRECTION	T23AT317-0008 WIND SPEED DIRECTION	T23AT317-0009 WIND SPEED DIRECTION	T23AT317-0010 WIND SPEED DIRECTION							
08:00-09:00 HOUR	2.6 S	2.7 NW	2.7 NW	2.7 NW	2.7 NW	2.6 S	2.7 NW	2.7 NW	2.7 NW	2.7 NW	2.6 S	2.7 NW
09:00-10:00 HOUR	1.2 SSE	1.7 NW	2.2 E	2.6 E	3.0 E	1.2 SSE	1.7 NW	2.2 E	2.6 E	3.0 E	1.2 SSE	1.7 NW
10:00-11:00 HOUR	3.4 S	1.5 NNW	2.8 ENE	1.4 SE	0.9 NE	3.4 S	1.5 NNW	2.8 ENE	1.4 SE	0.9 NE	3.4 S	1.5 NNW
11:00-12:00 HOUR	2.2 ESE	2.3 NNW	3.1 NE	1.5 S	3.4 NNE	2.2 ESE	2.3 NNW	3.1 NE	1.5 S	3.4 NNE	2.2 ESE	2.3 NNW
12:00-13:00 HOUR	0.8 SE	0.7 NW	0.9 E	0.9 S	2.7 ENE	0.8 SE	0.7 NW	0.9 E	0.9 S	2.7 ENE	0.8 SE	0.7 NW
13:00-14:00 HOUR	2.3 SSE	1.7 WNW	2.2 ENE	1.8 S	2.1 E	2.3 SSE	1.7 WNW	2.2 ENE	1.8 S	2.1 E	2.3 SSE	1.7 WNW
14:00-15:00 HOUR	0.7 S	2.7 WNW	2.4 ENE	0.6 ESE	2.4 E	0.7 S	2.7 WNW	2.4 ENE	0.6 ESE	2.4 E	0.7 S	2.7 WNW
15:00-16:00 HOUR	3.0 SE	1.1 WSW	3.0 E	2.4 S	3.5 ESE	3.0 SE	1.1 WSW	3.0 E	2.4 S	3.5 ESE	3.0 SE	1.1 WSW
16:00-17:00 HOUR	0.9 SSE	2.0 SW	0.5 ESE	0.7 E	1.0 SSE	0.9 SSE	2.0 SW	0.5 ESE	0.7 E	1.0 SSE	0.9 SSE	2.0 SW
17:00-18:00 HOUR	2.4 ESE	0.9 SW	0.5 ESE	2.5 SSE	1.1 S	2.4 ESE	0.9 SW	0.5 ESE	2.5 SSE	1.1 S	2.4 ESE	0.9 SW
18:00-19:00 HOUR	2.7 S	1.8 SW	2.7 S	3.2 SSW	1.5 S	2.7 S	1.8 SW	2.7 S	3.2 SSW	1.5 S	2.7 S	1.8 SW
19:00-20:00 HOUR	1.7 SE	2.0 SSW	2.1 SSE	1.3 ESE	0.6 SE	1.7 SE	2.0 SSW	2.1 SSE	1.3 ESE	0.6 SE	1.7 SE	2.0 SSW
20:00-21:00 HOUR	1.3 ESE	1.0 SSW	3.4 S	1.7 S	1.5 S	1.3 ESE	1.0 SSW	3.4 S	1.7 S	1.5 S	1.3 ESE	1.0 SSW
21:00-22:00 HOUR	0.6 SE	2.9 SSW	2.2 SSE	2.4 SSE	1.4 S	0.6 SE	2.9 SSW	2.2 SSE	2.4 SSE	1.4 S	0.6 SE	2.9 SSW
22:00-23:00 HOUR	1.5 SSW	3.0 SSW	1.0 SSW	1.6 ESE	2.3 SE	1.5 SSW	3.0 SSW	1.0 SSW	1.6 ESE	2.3 SE	1.5 SSW	3.0 SSW
23:00-00:00 HOUR	3.4 SSW	0.6 S	2.2 S	2.9 SE	3.0 SSW	3.4 SSW	0.6 S	2.2 S	2.9 SE	3.0 SSW	3.4 SSW	0.6 S
00:00-01:00 HOUR	1.4 SW	3.4 S	1.7 SSE	0.6 S	2.5 SSE	1.4 SW	3.4 S	1.7 SSE	0.6 S	2.5 SSE	1.4 SW	3.4 S
01:00-02:00 HOUR	1.8 SW	2.5 SSE	3.1 SSE	0.7 ESE	2.5 SSE	1.8 SW	2.5 SSE	3.1 SSE	0.7 ESE	2.5 SSE	1.8 SW	2.5 SSE
02:00-03:00 HOUR	2.8 SW	0.6 SSW	1.7 SSE	3.0 S	2.8 SSE	2.8 SW	0.6 SSW	1.7 SSE	3.0 S	2.8 SSE	2.8 SW	0.6 SSW
03:00-04:00 HOUR	1.3 WNW	1.2 ESE	3.5 S	1.5 ESE	0.5 SSW	1.3 WNW	1.2 ESE	3.5 S	1.5 ESE	0.5 SSW	1.3 WNW	1.2 ESE
04:00-05:00 HOUR	1.3 W	0.5 SE	1.3 SSE	0.9 SSW	1.8 SE	1.3 W	0.5 SE	1.3 SSE	0.9 SSW	1.8 SE	1.3 W	0.5 SE
05:00-06:00 HOUR	2.1 WNW	2.7 S	0.8 SE	1.0 SSE	2.5 SE	2.1 WNW	2.7 S	0.8 SE	1.0 SSE	2.5 SE	2.1 WNW	2.7 S
06:00-07:00 HOUR	1.0 SSW	1.2 SSE	3.1 SSE	2.0 ESE	0.9 ESE	1.0 SSW	1.2 SSE	3.1 SSE	2.0 ESE	0.9 ESE	1.0 SSW	1.2 SSE
07:00-08:00 HOUR	3.2 NW	2.8 ESE	3.5 SSE	3.4 ESE	1.1 S	3.2 NW	2.8 ESE	3.5 SSE	3.4 ESE	1.1 S	3.2 NW	2.8 ESE

bit ya

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BS GROUP (THAILAND) CO., LTD.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax.0 2763 2800 www.uaconsultant.com E-mail: ua@uaconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เอส ซี กรุ๊ป จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือของบริษัท
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085586
WORK NO. : 2022-008114
ANALYSIS NO. : T23AT317-0001 - T23AT317-0005

TIME *	RESULT (m/s)											
	SEPTEMBER 23-24, 2023	SEPTEMBER 24-25, 2023	SEPTEMBER 25-26, 2023	SEPTEMBER 26-27, 2023	SEPTEMBER 27-28, 2023							
	T23AT317-0001 WIND SPEED DIRECTION	T23AT317-0002 WIND SPEED DIRECTION	T23AT317-0003 WIND SPEED DIRECTION	T23AT317-0004 WIND SPEED DIRECTION	T23AT317-0005 WIND SPEED DIRECTION							
08:00-09:00 HOUR	0.6 SE	2.9 WSW	2.1 SE	2.5 SE	1.7 ESE	0.6 SE	2.9 WSW	2.1 SE	2.5 SE	1.7 ESE	0.6 SE	2.9 WSW
09:00-10:00 HOUR	3.1 SE	2.9 WSW	3.1 SE	1.5 SE	2.0 S	3.1 SE	2.9 WSW	3.1 SE	1.5 SE	2.0 S	3.1 SE	2.9 WSW
10:00-11:00 HOUR	2.1 S	3.2 W	0.7 SE	3.4 SSE	2.2 SSE	2.1 S	3.2 W	0.7 SE	3.4 SSE	2.2 SSE	2.1 S	3.2 W
11:00-12:00 HOUR	3.3 ESE	2.2 W	2.3 S	3.2 SE	2.5 SSE	3.3 ESE	2.2 W	2.3 S	3.2 SE	2.5 SSE	3.3 ESE	2.2 W
12:00-13:00 HOUR	0.8 ESE	3.2 SW	2.6 SE	1.7 SE	1.6 ESE	0.8 ESE	3.2 SW	2.6 SE	1.7 SE	1.6 ESE	0.8 ESE	3.2 SW
13:00-14:00 HOUR	1.7 S	0.7 SW	1.9 S	1.2 S	3.0 S	1.7 S	0.7 SW	1.9 S	1.2 S	3.0 S	1.7 S	0.7 SW
14:00-15:00 HOUR	3.4 ESE	0.9 WSW	1.0 S	1.1 SSE	1.0 S	3.4 ESE	0.9 WSW	1.0 S	1.1 SSE	1.0 S	3.4 ESE	0.9 WSW
15:00-16:00 HOUR	1.6 S	2.2 SW	2.0 ESE	0.6 S	2.0 ESE	1.6 S	2.2 SW	2.0 ESE	0.6 S	2.0 ESE	1.6 S	2.2 SW
16:00-17:00 HOUR	1.3 E	0.6 WSW	3.3 E	2.4 SSE	1.7 S	1.3 E	0.6 WSW	3.3 E	2.4 SSE	1.7 S	1.3 E	0.6 WSW
17:00-18:00 HOUR	2.3 S	1.9 WSW	1.1 NNE	1.1 SE	1.5 SE	2.3 S	1.9 WSW	1.1 NNE	1.1 SE	1.5 SE	2.3 S	1.9 WSW
18:00-19:00 HOUR	2.7 ESE	3.5 W	2.3 N	2.6 SE	2.9 SSW	2.7 ESE	3.5 W	2.3 N	2.6 SE	2.9 SSW	2.7 ESE	3.5 W
19:00-20:00 HOUR	0.9 SE	0.7 SSW	3.4 ENE	0.6 SSE	2.1 ESE	0.9 SE	0.7 SSW	3.4 ENE	0.6 SSE	2.1 ESE	0.9 SE	0.7 SSW
20:00-21:00 HOUR	2.7 SE	2.1 SSW	0.5 ENE	2.0 SSW	2.1 SSW	2.7 SE	2.1 SSW	0.5 ENE	2.0 SSW	2.1 SSW	2.7 SE	2.1 SSW
21:00-22:00 HOUR	0.9 ESE	2.8 SSE	2.1 E	1.9 SE	2.9 SE	0.9 ESE	2.8 SSE	2.1 E	1.9 SE	2.9 SE	0.9 ESE	2.8 SSE
22:00-23:00 HOUR	3.0 SSW	2.2 S	2.4 ENE	1.5 SE	1.0 S	3.0 SSW	2.2 S	2.4 ENE	1.5 SE	1.0 S	3.0 SSW	2.2 S
23:00-00:00 HOUR	2.8 ESE	3.4 ESE	2.2 ENE	3.1 ESE	1.6 SW	2.8 ESE	3.4 ESE	2.2 ENE	3.1 ESE	1.6 SW	2.8 ESE	3.4 ESE
00:00-01:00 HOUR	3.5 SSE	0.8 SSW	2.1 N	0.8 SE	2.3 WSW	3.5 SSE	0.8 SSW	2.1 N	0.8 SE	2.3 WSW	3.5 SSE	0.8 SSW
01:00-02:00 HOUR	2.5 SSW	2.1 S	1.7 NNE	3.5 S	1.6 WNW	2.5 SSW	2.1 S	1.7 NNE	3.5 S	1.6 WNW	2.5 SSW	2.1 S
02:00-03:00 HOUR	0.6 SE	3.4 S	2.3 NE	3.5 ESE	2.9 WNW	0.6 SE	3.4 S	2.3 NE	3.5 ESE	2.9 WNW	0.6 SE	3.4 S
03:00-04:00 HOUR	1.2 SSW	0.7 S	3.5 NE	1.8 SSW	2.9 NW	1.2 SSW	0.7 S	3.5 NE	1.8 SSW	2.9 NW	1.2 SSW	0.7 S
04:00-05:00 HOUR	0.6 SSW	2.2 S	2.7 ENE	2.2 SSE	2.3 W	0.6 SSW	2.2 S	2.7 ENE	2.2 SSE	2.3 W	0.6 SSW	2.2 S
05:00-06:00 HOUR	1.3 W	0.6 SE	1.7 E	2.0 S	3.2 W	1.3 W	0.6 SE	1.7 E	2.0 S	3.2 W	1.3 W	0.6 SE
06:00-07:00 HOUR	2.5 WNW	2.5 SSW	2.6 ESE	0.7 SE	3.5 WSW	2.5 WNW	2.5 SSW	2.6 ESE	0.7 SE	3.5 WSW	2.5 WNW	2.5 SSW
07:00-08:00 HOUR	1.5 SW	2.2 SE	1.6 ESE	1.3 SE	3.5 SSW	1.5 SW	2.2 SE	1.6 ESE	1.3 SE	3.5 SSW	1.5 SW	2.2 SE

bit ya

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/1

- End of Analysis Report -

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BS GROUP (THAILAND) CO., LTD.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax.0 2763 2800 www.uaeconsultant.com E-mail: uaec@uaeconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เลดี กรุ๊ป จำกัด

CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED

ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230

CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com

MEASURING PLACE : บริเวณท่าเทียบเรือ

MEASURING TYPE : AMBIENT (AIR)

MEASURING DATE : SEPTEMBER 23-28, 2023

MEASURING TIME : *

MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT

MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023

ANALYTICAL DATE : SEPTEMBER 23-28, 2023

REPORT NO. : 2023-U085589

WORK NO. : 2022-008114

ANALYSIS NO. : T23AT317-0016 - T23AT317-0020

TIME *	RESULT (m/s)											
	SEPTEMBER 23-24, 2023	SEPTEMBER 24-25, 2023	SEPTEMBER 25-26, 2023	SEPTEMBER 26-27, 2023	SEPTEMBER 27-28, 2023							
	T23AT317-0016	T23AT317-0017	T23AT317-0018	T23AT317-0019	T23AT317-0020	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED
08:00-09:00 HOUR	2.3	S	1.6	SSW	2.4	E	2.0	SSE	0.6	S		
09:00-10:00 HOUR	1.9	S	2.1	SE	2.7	NE	1.7	SSW	2.4	SSE		
10:00-11:00 HOUR	2.7	SE	1.3	S	0.8	NE	1.8	S	2.7	SE		
11:00-12:00 HOUR	2.4	S	1.4	S	3.5	N	2.1	ESE	3.3	ESE		
12:00-13:00 HOUR	1.1	S	2.0	S	2.9	N	2.2	SE	1.9	S		
13:00-14:00 HOUR	1.3	SSW	2.9	ESE	2.1	NNW	1.2	S	2.2	ESE		
14:00-15:00 HOUR	0.7	SSW	2.5	SE	1.8	NNW	0.9	SE	0.8	SSE		
15:00-16:00 HOUR	0.9	SW	2.0	SSE	0.7	NNW	1.6	SSE	3.0	ESE		
16:00-17:00 HOUR	2.6	SW	2.5	S	2.7	NW	2.7	SSW	1.8	SSE		
17:00-18:00 HOUR	2.9	NNW	1.4	SE	0.6	NNW	1.8	S	3.0	SE		
18:00-19:00 HOUR	2.8	SSW	1.0	SSE	2.3	W	3.5	S	0.6	S		
19:00-20:00 HOUR	0.7	NNW	3.2	SE	2.2	WSW	0.9	SSE	2.6	S		
20:00-21:00 HOUR	3.2	SSW	0.7	ESE	2.4	WSW	2.5	E	2.8	SSE		
21:00-22:00 HOUR	1.3	SW	2.3	ESE	2.7	SW	1.4	ESE	3.2	SE		
22:00-23:00 HOUR	2.5	W	2.5	E	1.2	SW	0.7	ESE	1.4	SE		
23:00-00:00 HOUR	3.0	SSW	1.7	NE	1.0	SSW	3.2	SSE	0.7	S		
00:00-01:00 HOUR	2.8	WSW	0.8	N	2.2	S	3.1	SE	1.2	SSW		
01:00-02:00 HOUR	2.5	SW	3.4	NE	3.1	S	1.6	SE	2.9	S		
02:00-03:00 HOUR	2.2	WSW	0.8	E	2.7	SSE	2.8	ESE	1.0	SE		
03:00-04:00 HOUR	0.9	WSW	3.2	NNE	1.4	SE	1.5	SE	3.4	SSE		
04:00-05:00 HOUR	0.6	WSW	3.2	NE	0.8	SE	1.3	SSW	1.8	SE		
05:00-06:00 HOUR	0.7	NNW	1.0	ENE	3.0	S	1.4	SSE	1.2	ESE		
06:00-07:00 HOUR	2.6	W	2.4	NE	2.8	S	1.6	S	2.9	SSW		
07:00-08:00 HOUR	2.1	SSW	3.4	ENE	2.8	SSW	2.7	SSE	0.7	SE		

hst

(MR SILA BANONGJAIKRIK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
VF RS GROUP (THAILAND) CO., LTD.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax.0 2763 2800 www.uaeconsultant.com E-mail: uaec@uaeconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เลดี กรุ๊ป จำกัด

CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED

ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230

CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com

MEASURING PLACE : บริเวณท่าเทียบเรือ

MEASURING TYPE : AMBIENT (AIR)

MEASURING DATE : SEPTEMBER 23-28, 2023

MEASURING TIME : *

MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT

MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023

ANALYTICAL DATE : SEPTEMBER 23-28, 2023

REPORT NO. : 2023-U085588

WORK NO. : 2022-008114

ANALYSIS NO. : T23AT317-0011 - T23AT317-0015

TIME *	RESULT (m/s)											
	SEPTEMBER 23-24, 2023	SEPTEMBER 24-25, 2023	SEPTEMBER 25-26, 2023	SEPTEMBER 26-27, 2023	SEPTEMBER 27-28, 2023							
	T23AT317-0011	T23AT317-0012	T23AT317-0013	T23AT317-0014	T23AT317-0015	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED
08:00-09:00 HOUR	1.1	S	0.7	NW	2.2	SSW	1.3	SE	2.6	N		
09:00-10:00 HOUR	2.7	SSW	1.5	NW	0.6	SE	1.0	ESE	2.8	ENE		
10:00-11:00 HOUR	0.6	SW	1.2	NNW	0.7	SSE	1.1	SSE	2.0	NNE		
11:00-12:00 HOUR	0.5	WSW	1.0	N	1.4	SSE	3.4	SSE	1.8	NNE		
12:00-13:00 HOUR	2.2	NNW	3.2	NNW	1.2	SE	2.3	SSE	0.8	N		
13:00-14:00 HOUR	1.4	W	2.1	N	2.6	S	1.3	SSE	2.3	N		
14:00-15:00 HOUR	2.2	WSW	2.9	WNW	1.6	ESE	2.3	SE	1.2	E		
15:00-16:00 HOUR	1.8	WSW	0.9	WNW	3.2	ESE	1.2	S	2.4	ESE		
16:00-17:00 HOUR	2.9	W	2.9	SW	1.0	ESE	1.4	S	1.8	ESE		
17:00-18:00 HOUR	3.2	WSW	1.3	W	2.7	SSW	1.6	S	0.7	SE		
18:00-19:00 HOUR	2.0	W	2.0	SW	1.6	SSE	0.5	SE	3.2	SSE		
19:00-20:00 HOUR	2.5	NNW	1.8	WSW	0.5	SE	2.8	ESE	1.1	SE		
20:00-21:00 HOUR	0.6	WSW	0.8	SW	1.0	SSE	1.8	S	3.4	SE		
21:00-22:00 HOUR	2.4	W	1.1	SSW	0.6	SSW	2.1	SSE	1.6	SE		
22:00-23:00 HOUR	2.5	NNW	0.6	S	0.7	SSW	1.4	S	2.9	SSE		
23:00-00:00 HOUR	0.5	NNW	2.0	ESE	0.6	ESE	1.5	E	2.4	SSE		
00:00-01:00 HOUR	3.3	NNW	2.0	SSE	2.1	SSW	1.0	ESE	0.5	SE		
01:00-02:00 HOUR	2.6	N	0.5	ESE	0.6	ESE	2.0	SSE	1.6	ESE		
02:00-03:00 HOUR	0.7	NNW	3.1	SSE	2.7	ESE	0.9	SSE	3.1	SSE		
03:00-04:00 HOUR	2.2	NNW	0.6	S	2.1	S	2.7	ESE	3.4	SE		
04:00-05:00 HOUR	2.8	NW	3.0	S	1.5	SE	0.5	E	1.9	ESE		
05:00-06:00 HOUR	1.9	NNW	3.2	ESE	3.2	SSW	1.1	ENE	2.2	S		
06:00-07:00 HOUR	1.5	NW	2.6	SSE	1.5	ESE	0.5	ENE	3.1	ESE		
07:00-08:00 HOUR	2.4	NNW	3.1	ESE	1.1	SSW	3.2	ENE	3.2	SE		

hst

(MR SILA BANONGJAIKRIK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
VF RS GROUP (THAILAND) CO., LTD.

ภาคผนวก ง-2

ผลการตรวจวัดระดับเสียง



TIME*	RESULT dB(A)		
	ปริมาณการปล่อยเสียงโครงการ		
	SEPTEMBER 24-25, 2023		
	T23AT318-0002		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	60.9	84.9	54.3
08:00-09:00 HOUR	60.7	86.5	52.8
09:00-10:00 HOUR	59.6	85.4	54.2
10:00-11:00 HOUR	60.4	83.4	53.3
11:00-12:00 HOUR	62.7	90.5	45.2
12:00-13:00 HOUR	58.9	93.3	48.4
13:00-14:00 HOUR	55.4	80.9	47.7
14:00-15:00 HOUR	53.6	79.6	46.5
15:00-16:00 HOUR	54.1	84.8	46.7
16:00-17:00 HOUR	49.2	74.7	45.8
17:00-18:00 HOUR	48.4	66.5	44.5
18:00-19:00 HOUR	51.4	84.2	45.1
19:00-20:00 HOUR	55.2	86.7	43.0
20:00-21:00 HOUR	45.9	61.8	42.3
21:00-22:00 HOUR	44.4	58.5	41.7
22:00-23:00 HOUR	50.9	65.3	48.5
23:00-00:00 HOUR	50.5	66.0	48.6
00:00-01:00 HOUR	51.0	64.0	48.7
01:00-02:00 HOUR	49.1	68.4	47.0
02:00-03:00 HOUR	49.8	59.2	47.9
03:00-04:00 HOUR	49.3	64.1	47.7
04:00-05:00 HOUR	50.9	64.7	47.7
05:00-06:00 HOUR	51.1	67.3	49.1
06:00-07:00 HOUR	59.1	89.6	48.9
L _{Aeq} 24 hours	56.3		
L _{A90}	60.3		

ANALYSIS REPORT

PROJECT NAME

: โครงการท่าเทียบเรือ บริษัท เอ็ม บีซี จำกัด

CUSTOMER NAME

: JC MARINE PORT COMPANY LIMITED

ADDRESS

: 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
: TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com

CONTACT INFORMATION

: บริษัทท่าเทียบเรือของโครงการ

MEASURING SOURCE

: AMBIENT (NOISE)

MEASURING TYPE

: SEPTEMBER 23-28, 2023

MEASURING TIME

: *

MEASURING METHOD

: INTEGRATED SOUND LEVEL METER

MEASURED BY

: MR SIRAPAT JONGPHADUNGKIE

RECEIVED DATE : SEPTEMBER 23-28, 2023

ANALYTICAL DATE : SEPTEMBER 23-28, 2023

REPORT NO. : 2023-U085593

WORK NO. : 2022-008114

ANALYSIS NO. : T23AT318-0001 - T23AT318-0005

TIME*	RESULT dB(A)		
	ปริมาณการปล่อยเสียงโครงการ		
	SEPTEMBER 23-24, 2023		
	T23AT318-0001		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	62.6	85.5	49.7
08:00-09:00 HOUR	64.4	86.6	47.6
09:00-10:00 HOUR	61.6	85.3	48.8
10:00-11:00 HOUR	64.3	91.8	45.8
11:00-12:00 HOUR	59.4	84.9	50.0
12:00-13:00 HOUR	59.6	91.9	47.4
13:00-14:00 HOUR	64.6	93.2	48.6
14:00-15:00 HOUR	60.4	83.5	49.1
15:00-16:00 HOUR	54.0	71.1	52.8
16:00-17:00 HOUR	63.5	95.6	53.9
17:00-18:00 HOUR	58.5	75.0	53.4
18:00-19:00 HOUR	60.7	92.2	53.9
19:00-20:00 HOUR	52.7	77.8	47.4
20:00-21:00 HOUR	55.6	77.2	53.8
21:00-22:00 HOUR	54.0	72.3	51.9
22:00-23:00 HOUR	51.8	67.7	48.7
23:00-00:00 HOUR	50.7	64.1	48.0
00:00-01:00 HOUR	51.3	67.3	48.4
01:00-02:00 HOUR	51.0	71.8	47.8
02:00-03:00 HOUR	52.3	77.2	48.9
03:00-04:00 HOUR	52.1	74.7	48.6
04:00-05:00 HOUR	52.1	74.0	50.2
05:00-06:00 HOUR	52.5	75.2	49.8
06:00-07:00 HOUR	60.6	86.4	54.5
L _{Aeq} 24 hours		59.6	
L _{A90}		62.5	





United Analyst and Engineering Consultant Co., Ltd.
3 Sol Udomsuk 41, Sukhumvit Road, Bangkok 10260
Tel.0 2763 2828 Fax.0 2763 2800 www.uaec consultant.com E-mail: uaee@uaec consultant.com



United Analyst and Engineering Consultant Co., Ltd.
3 Sol Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax.0 2763 2800 www.uaec consultant.com E-mail: uaee@uaec consultant.com

TIME*	RESULT dB(A)		
	บริการด้านเสียงโดยทาง		
	SEPTEMBER 26-27, 2023		
	T23AT318-0004		
	L _{avg} 1 hour	L _{max} 1 hour	L _{eq} 1 hour
07:00-08:00 HOUR	59.1	83.2	47.4
08:00-09:00 HOUR	58.0	88.2	48.4
09:00-10:00 HOUR	59.5	84.2	47.3
10:00-11:00 HOUR	58.6	80.9	47.8
11:00-12:00 HOUR	55.8	83.7	45.8
12:00-13:00 HOUR	51.1	72.0	43.8
13:00-14:00 HOUR	50.9	74.4	43.6
14:00-15:00 HOUR	53.1	85.8	43.1
15:00-16:00 HOUR	54.0	86.7	45.1
16:00-17:00 HOUR	56.9	90.0	46.1
17:00-18:00 HOUR	54.7	86.0	43.9
18:00-19:00 HOUR	55.3	81.5	51.8
19:00-20:00 HOUR	52.3	85.4	42.9
20:00-21:00 HOUR	47.3	73.6	43.1
21:00-22:00 HOUR	48.8	75.5	42.5
22:00-23:00 HOUR	55.0	61.4	54.2
23:00-00:00 HOUR	55.1	71.3	54.3
00:00-01:00 HOUR	53.9	65.0	52.7
01:00-02:00 HOUR	53.7	62.7	52.6
02:00-03:00 HOUR	54.4	68.1	52.7
03:00-04:00 HOUR	53.5	65.8	51.9
04:00-05:00 HOUR	54.6	67.8	51.3
05:00-06:00 HOUR	54.3	74.1	50.3
06:00-07:00 HOUR	60.0	83.7	51.6
L _{avg} 24 hours	55.6		
L _{eq} 24 hours	61.9		

TIME*	RESULT dB(A)		
	บริการด้านเสียงโดยทาง		
	SEPTEMBER 25-26, 2023		
	T23AT318-0003		
	L _{avg} 1 hour	L _{max} 1 hour	L _{eq} 1 hour
07:00-08:00 HOUR	60.1	88.2	45.0
08:00-09:00 HOUR	61.6	88.3	46.5
09:00-10:00 HOUR	57.3	77.0	45.8
10:00-11:00 HOUR	60.1	86.3	45.2
11:00-12:00 HOUR	57.3	83.2	43.8
12:00-13:00 HOUR	53.8	79.0	43.7
13:00-14:00 HOUR	49.3	79.0	43.1
14:00-15:00 HOUR	50.6	78.2	44.5
15:00-16:00 HOUR	56.2	87.4	44.3
16:00-17:00 HOUR	46.0	60.7	42.4
17:00-18:00 HOUR	47.2	68.4	43.8
18:00-19:00 HOUR	45.4	61.2	42.0
19:00-20:00 HOUR	45.7	60.7	42.8
20:00-21:00 HOUR	50.1	77.3	41.0
21:00-22:00 HOUR	53.9	82.3	41.5
22:00-23:00 HOUR	53.7	71.5	49.7
23:00-00:00 HOUR	52.6	65.3	49.0
00:00-01:00 HOUR	51.8	64.8	49.0
01:00-02:00 HOUR	51.7	68.4	49.0
02:00-03:00 HOUR	51.3	65.0	48.4
03:00-04:00 HOUR	51.3	68.5	48.2
04:00-05:00 HOUR	50.4	63.8	47.3
05:00-06:00 HOUR	51.0	67.6	48.0
06:00-07:00 HOUR	52.9	72.9	48.3
L _{avg} 24 hours	54.9		
L _{eq} 24 hours	59.2		



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ ยานยนต์ เรือสำเภา ท่าเรือ ชลบุรี
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING SOURCE : ยานยนต์บรรทุกสินค้าท่าเทียบเรือ
MEASURING TYPE : AMBIENT (NOISE)
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : 2023-U085594
MEASURING METHOD : INTEGRATED SOUND LEVEL METER
MEASURED BY : MR SIRAPAT JONGPHADUNGKIE

TIME*	RESULT dB(A)	
	L _{max} 1 hour	L _{avg} 1 hour
ผลการวัดระดับเสียงตามมาตรฐาน SEPTEMBER 23-24, 2023 T23AT318-0006		
07:00-08:00 HOUR	51.1	40.2
08:00-09:00 HOUR	49.9	37.7
09:00-10:00 HOUR	51.5	48.7
10:00-11:00 HOUR	48.6	37.7
11:00-12:00 HOUR	47.5	39.2
12:00-13:00 HOUR	48.6	39.1
13:00-14:00 HOUR	49.6	38.4
14:00-15:00 HOUR	49.1	38.7
15:00-16:00 HOUR	53.8	48.5
16:00-17:00 HOUR	53.3	41.6
17:00-18:00 HOUR	48.5	38.8
18:00-19:00 HOUR	48.6	39.0
19:00-20:00 HOUR	41.2	38.6
20:00-21:00 HOUR	44.9	39.0
21:00-22:00 HOUR	40.9	38.9
22:00-23:00 HOUR	41.2	38.7
23:00-00:00 HOUR	41.6	38.3
00:00-01:00 HOUR	43.8	38.4
01:00-02:00 HOUR	46.3	38.5
02:00-03:00 HOUR	48.4	39.9
03:00-04:00 HOUR	49.7	41.6
04:00-05:00 HOUR	49.4	48.1
05:00-06:00 HOUR	48.0	38.9
06:00-07:00 HOUR	47.4	38.5
L _{avg} 24 hours	48.9	
L _{eqn}	54.0	

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BS GROUP (THAILAND) CO., LTD.

PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

RESULT dB(A)

TIME*	ผลการวัดระดับเสียงตามมาตรฐาน SEPTEMBER 27-28, 2023 T23AT318-0005	
	L _{max} 1 hour	L _{avg} 1 hour
07:00-08:00 HOUR	64.1	86.8
08:00-09:00 HOUR	61.9	87.4
09:00-10:00 HOUR	65.3	98.0
10:00-11:00 HOUR	60.9	83.1
11:00-12:00 HOUR	56.6	80.2
12:00-13:00 HOUR	56.3	76.4
13:00-14:00 HOUR	57.7	76.5
14:00-15:00 HOUR	53.9	76.0
15:00-16:00 HOUR	53.3	61.0
16:00-17:00 HOUR	51.2	74.4
17:00-18:00 HOUR	51.4	86.0
18:00-19:00 HOUR	48.7	66.9
19:00-20:00 HOUR	50.6	78.7
20:00-21:00 HOUR	57.4	93.8
21:00-22:00 HOUR	60.0	88.8
22:00-23:00 HOUR	54.4	75.7
23:00-00:00 HOUR	53.1	74.6
00:00-01:00 HOUR	52.0	78.0
01:00-02:00 HOUR	50.7	72.8
02:00-03:00 HOUR	52.0	76.6
03:00-04:00 HOUR	53.0	77.5
04:00-05:00 HOUR	54.8	74.4
05:00-06:00 HOUR	54.7	80.7
06:00-07:00 HOUR	53.5	73.0
L _{avg} 24 hours		57.8
L _{eqn}		61.3

h.d. 7p

(MR. SILA BANONGJAIIRUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

UNITED ANALYST AND ENGINEERING
CONSULTANT COMPANY LIMITED

TIME*	RESULT dB(A)		
	บริษัทผู้ให้บริการวิเคราะห์เสียง SEPTEMBER 25-26, 2023		
	T23AT318-0008		
	L _{eq} 1 hour	L _{max} 1 hour	L ₉₀ 1 hour
07:00-08:00 HOUR	51.3	75.2	46.4
08:00-09:00 HOUR	51.4	70.8	47.3
09:00-10:00 HOUR	48.7	72.6	42.0
10:00-11:00 HOUR	47.6	65.4	42.1
11:00-12:00 HOUR	49.6	75.4	42.8
12:00-13:00 HOUR	48.9	76.0	42.1
13:00-14:00 HOUR	47.7	75.9	41.4
14:00-15:00 HOUR	49.4	72.5	44.3
15:00-16:00 HOUR	45.4	70.5	39.7
16:00-17:00 HOUR	55.9	80.3	40.5
17:00-18:00 HOUR	54.7	75.0	41.1
18:00-19:00 HOUR	53.5	81.8	51.6
19:00-20:00 HOUR	53.2	66.3	51.5
20:00-21:00 HOUR	53.9	74.0	51.5
21:00-22:00 HOUR	52.1	67.7	50.9
22:00-23:00 HOUR	47.7	81.9	40.5
23:00-00:00 HOUR	43.4	68.3	40.6
00:00-01:00 HOUR	45.6	68.1	40.4
01:00-02:00 HOUR	50.3	73.8	45.0
02:00-03:00 HOUR	49.1	69.8	41.6
03:00-04:00 HOUR	49.8	68.0	42.6
04:00-05:00 HOUR	47.7	77.1	40.9
05:00-06:00 HOUR	48.6	72.1	45.7
06:00-07:00 HOUR	47.6	75.8	40.2
L _{eq} 24 hours			
L _{day}	50.8		
L _{night}	55.3		

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

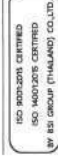


United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangchak, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

UNITED ANALYST AND ENGINEERING
CONSULTANT COMPANY LIMITED

TIME*	RESULT dB(A)		
	บริษัทผู้ให้บริการวิเคราะห์เสียง SEPTEMBER 24-25, 2023		
	T23AT318-0007		
	L _{eq} 1 hour	L _{max} 1 hour	L ₉₀ 1 hour
07:00-08:00 HOUR	47.9	79.4	41.7
08:00-09:00 HOUR	49.5	77.4	40.0
09:00-10:00 HOUR	54.3	76.4	40.1
10:00-11:00 HOUR	50.4	81.0	41.7
11:00-12:00 HOUR	50.3	79.7	41.7
12:00-13:00 HOUR	48.1	73.7	41.1
13:00-14:00 HOUR	47.5	67.4	43.4
14:00-15:00 HOUR	47.6	67.9	42.7
15:00-16:00 HOUR	45.9	69.5	43.3
16:00-17:00 HOUR	54.4	83.8	41.6
17:00-18:00 HOUR	43.7	69.9	40.4
18:00-19:00 HOUR	43.7	72.8	40.5
19:00-20:00 HOUR	47.2	79.9	40.1
20:00-21:00 HOUR	43.2	64.5	39.9
21:00-22:00 HOUR	41.3	56.6	39.8
22:00-23:00 HOUR	44.4	77.6	39.6
23:00-00:00 HOUR	41.8	60.0	39.6
00:00-01:00 HOUR	46.2	68.7	39.8
01:00-02:00 HOUR	47.7	73.4	41.5
02:00-03:00 HOUR	47.9	82.1	42.2
03:00-04:00 HOUR	47.2	70.9	41.0
04:00-05:00 HOUR	50.6	73.0	49.1
05:00-06:00 HOUR	49.7	68.4	42.0
06:00-07:00 HOUR	46.2	68.4	41.2
L _{eq} 24 hours			
L _{day}	48.7		
L _{night}	54.2		

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.





United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

TIME*	RESULT dB(A)		
	บริษัทอูเอแอนด์เอนจิเนียริ่งคอนซัลแตนท์ จำกัด		
	SEPTEMBER 27-28, 2023		
	T23AT318-0010		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	48.4	76.6	41.0
08:00-09:00 HOUR	47.3	70.0	41.4
09:00-10:00 HOUR	48.7	71.5	41.5
10:00-11:00 HOUR	53.8	73.5	42.5
11:00-12:00 HOUR	49.7	75.0	41.9
12:00-13:00 HOUR	51.5	75.4	43.2
13:00-14:00 HOUR	49.2	75.2	42.8
14:00-15:00 HOUR	47.7	72.2	41.1
15:00-16:00 HOUR	50.4	79.4	42.2
16:00-17:00 HOUR	52.7	70.1	51.3
17:00-18:00 HOUR	62.2	84.2	58.3
18:00-19:00 HOUR	58.8	88.8	56.0
19:00-20:00 HOUR	54.6	62.6	53.6
20:00-21:00 HOUR	49.6	57.0	47.4
21:00-22:00 HOUR	45.4	66.5	42.8
22:00-23:00 HOUR	43.2	75.6	41.1
23:00-00:00 HOUR	44.6	67.5	40.4
00:00-01:00 HOUR	45.7	66.4	40.7
01:00-02:00 HOUR	48.7	69.8	42.5
02:00-03:00 HOUR	50.6	75.8	43.1
03:00-04:00 HOUR	49.3	72.6	42.9
04:00-05:00 HOUR	50.3	71.2	46.0
05:00-06:00 HOUR	49.4	77.9	42.3
06:00-07:00 HOUR	49.0	76.2	41.8
L _{Aeq} 24 hours	52.8		
L _{Ain}	56.3		



• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2023-U085594

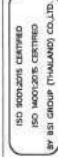
5/5

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

TIME*	RESULT dB(A)		
	บริษัทอูเอแอนด์เอนจิเนียริ่งคอนซัลแตนท์ จำกัด		
	SEPTEMBER 26-27, 2023		
	T23AT318-0009		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	48.7	72.0	41.1
08:00-09:00 HOUR	47.4	71.0	39.5
09:00-10:00 HOUR	48.9	78.1	40.8
10:00-11:00 HOUR	47.4	71.2	42.0
11:00-12:00 HOUR	50.0	73.2	42.4
12:00-13:00 HOUR	46.8	73.5	42.4
13:00-14:00 HOUR	51.0	71.5	43.7
14:00-15:00 HOUR	52.9	73.3	50.9
15:00-16:00 HOUR	52.9	72.3	50.0
16:00-17:00 HOUR	55.7	74.0	54.0
17:00-18:00 HOUR	54.1	70.1	52.4
18:00-19:00 HOUR	55.2	84.5	52.1
19:00-20:00 HOUR	57.0	83.5	52.1
20:00-21:00 HOUR	59.4	80.6	52.9
21:00-22:00 HOUR	57.8	82.8	52.6
22:00-23:00 HOUR	44.8	70.0	41.3
23:00-00:00 HOUR	43.4	66.1	41.0
00:00-01:00 HOUR	46.2	81.8	40.7
01:00-02:00 HOUR	48.5	88.1	42.8
02:00-03:00 HOUR	50.6	71.5	43.2
03:00-04:00 HOUR	48.9	69.1	42.2
04:00-05:00 HOUR	49.9	81.9	43.0
05:00-06:00 HOUR	49.8	74.9	43.6
06:00-07:00 HOUR	50.3	74.2	42.4
L _{Aeq} 24 hours	52.7		
L _{Ain}	56.4		



• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

4/5

2023-U085594

TIME*	RESULT dB(A)		
	เสียงรบกวนทางบก SEPTEMBER 24-25, 2023		
	T23AT318-0012		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	57.3	77.1	55.8
08:00-09:00 HOUR	58.3	88.5	55.7
09:00-10:00 HOUR	56.6	79.6	47.7
10:00-11:00 HOUR	57.3	87.6	47.2
11:00-12:00 HOUR	58.4	92.9	49.9
12:00-13:00 HOUR	52.6	76.0	43.7
13:00-14:00 HOUR	51.0	72.8	43.1
14:00-15:00 HOUR	52.2	73.6	47.1
15:00-16:00 HOUR	51.3	75.5	45.0
16:00-17:00 HOUR	48.3	66.5	44.9
17:00-18:00 HOUR	50.1	74.3	42.6
18:00-19:00 HOUR	47.2	71.5	42.1
19:00-20:00 HOUR	47.3	67.1	42.4
20:00-21:00 HOUR	48.3	79.4	41.2
21:00-22:00 HOUR	51.4	79.6	40.3
22:00-23:00 HOUR	48.3	77.4	40.1
23:00-00:00 HOUR	49.0	72.9	46.1
00:00-01:00 HOUR	48.9	71.9	46.5
01:00-02:00 HOUR	47.4	65.7	46.1
02:00-03:00 HOUR	46.7	65.3	45.0
03:00-04:00 HOUR	49.3	76.8	45.0
04:00-05:00 HOUR	46.7	66.4	44.2
05:00-06:00 HOUR	48.4	66.7	44.3
06:00-07:00 HOUR	55.3	76.7	49.0
L _{Aeq} 24 hours	53.1		
L _{A90}	57.2		

ANALYSIS REPORT		
PROJECT NAME	โครงการท่าเทียบเรือ เรือประมง บริเวณ ท่าเรือ 3/ก/อ	
CUSTOMER NAME	JC MARINE PORT COMPANY LIMITED	
ADDRESS	153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230	
CONTACT INFORMATION	TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.linfo@gmail.com	
MEASURING SOURCE	เสียงรบกวนจากเครื่องยนต์	
MEASURING TYPE	AMBIENT (NOISE)	
MEASURING DATE	SEPTEMBER 23-28, 2023	
MEASURING TIME	*	
MEASURING METHOD	INTEGRATED SOUND LEVEL METER	
MEASURED BY	MR SIRAPAT JONGPHADUNGKIE	
	RECEIVED DATE	SEPTEMBER 23-28, 2023
	ANALYTICAL DATE	SEPTEMBER 23-28, 2023
	REPORT NO.	2023-U085595
	WORK NO.	2022-008114
	ANALYSIS NO.	T23AT318-0011 - T23AT318-0015
RESULT dB(A)		
เสียงรบกวนทางบก SEPTEMBER 23-24, 2023		
T23AT318-0011		
	L _{Aeq} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.8	80.2
08:00-09:00 HOUR	53.1	77.6
09:00-10:00 HOUR	51.4	79.3
10:00-11:00 HOUR	55.4	81.0
11:00-12:00 HOUR	55.6	76.5
12:00-13:00 HOUR	54.4	80.9
13:00-14:00 HOUR	55.3	84.8
14:00-15:00 HOUR	58.0	86.7
15:00-16:00 HOUR	54.1	81.6
16:00-17:00 HOUR	59.1	78.0
17:00-18:00 HOUR	49.2	71.7
18:00-19:00 HOUR	50.7	80.5
19:00-20:00 HOUR	48.1	72.6
20:00-21:00 HOUR	47.6	74.1
21:00-22:00 HOUR	48.7	75.1
22:00-23:00 HOUR	42.5	63.0
23:00-00:00 HOUR	51.3	74.5
00:00-01:00 HOUR	47.0	70.2
01:00-02:00 HOUR	52.8	83.2
02:00-03:00 HOUR	52.3	72.8
03:00-04:00 HOUR	44.2	62.8
04:00-05:00 HOUR	43.9	52.6
05:00-06:00 HOUR	47.2	64.7
06:00-07:00 HOUR	46.8	68.2
L _{Aeq} 24 hours	53.2	
L _{A90}	56.8	

TIME*	RESULT dB(A)		
	เสียงรบกวนในชุมชน		
	SEPTEMBER 26-27, 2023		
	T23AT318-0014		
	L _{avg} 1 hour	L _{max} 1 hour	L ₉₀ 1 hour
07:00-08:00 HOUR	57.0	79.7	53.0
08:00-09:00 HOUR	55.9	72.8	53.4
09:00-10:00 HOUR	56.6	76.1	55.1
10:00-11:00 HOUR	62.6	93.4	55.8
11:00-12:00 HOUR	53.1	72.7	47.8
12:00-13:00 HOUR	52.2	75.6	46.0
13:00-14:00 HOUR	58.2	79.1	52.5
14:00-15:00 HOUR	53.8	83.9	42.7
15:00-16:00 HOUR	52.8	76.1	41.9
16:00-17:00 HOUR	50.7	77.9	40.5
17:00-18:00 HOUR	49.4	79.0	39.4
18:00-19:00 HOUR	47.2	68.3	42.8
19:00-20:00 HOUR	43.8	68.7	37.7
20:00-21:00 HOUR	44.5	67.9	37.9
21:00-22:00 HOUR	49.9	77.1	43.6
22:00-23:00 HOUR	45.6	65.4	43.6
23:00-00:00 HOUR	45.2	71.2	42.5
00:00-01:00 HOUR	42.6	77.4	41.4
01:00-02:00 HOUR	43.3	60.4	41.0
02:00-03:00 HOUR	46.7	74.6	41.3
03:00-04:00 HOUR	43.2	64.4	41.6
04:00-05:00 HOUR	44.4	60.9	41.3
05:00-06:00 HOUR	46.6	66.5	43.3
06:00-07:00 HOUR	54.2	88.3	48.1
L _{avg} 24 hours	53.6		
L _{dn}	56.3		

TIME*	RESULT dB(A)		
	เสียงรบกวนในชุมชน		
	SEPTEMBER 25-26, 2023		
	T23AT318-0013		
	L _{avg} 1 hour	L _{max} 1 hour	L ₉₀ 1 hour
07:00-08:00 HOUR	53.2	80.0	43.9
08:00-09:00 HOUR	56.1	77.9	52.4
09:00-10:00 HOUR	51.8	77.1	45.1
10:00-11:00 HOUR	52.0	81.5	44.1
11:00-12:00 HOUR	55.4	79.8	44.6
12:00-13:00 HOUR	52.6	81.2	43.1
13:00-14:00 HOUR	51.8	74.3	41.8
14:00-15:00 HOUR	52.9	84.2	42.4
15:00-16:00 HOUR	49.4	73.4	42.8
16:00-17:00 HOUR	58.1	84.3	42.9
17:00-18:00 HOUR	55.5	89.8	42.8
18:00-19:00 HOUR	50.1	72.8	42.1
19:00-20:00 HOUR	52.2	70.3	45.5
20:00-21:00 HOUR	51.6	76.2	42.3
21:00-22:00 HOUR	46.2	70.1	43.9
22:00-23:00 HOUR	45.6	70.2	43.7
23:00-00:00 HOUR	43.4	68.4	39.0
00:00-01:00 HOUR	46.9	68.6	39.4
01:00-02:00 HOUR	54.3	78.6	45.7
02:00-03:00 HOUR	55.4	80.0	48.2
03:00-04:00 HOUR	47.4	63.7	45.5
04:00-05:00 HOUR	48.3	70.2	44.0
05:00-06:00 HOUR	51.5	79.7	43.8
06:00-07:00 HOUR	57.2	86.4	49.0
L _{avg} 24 hours	53.1		
L _{dn}	58.9		



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk-41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.laeconsultant.com E-mail: lae@laeconsultant.com



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk-41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.laeconsultant.com E-mail: lae@laeconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เอส ซี บี จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708 / 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : บริเวณท่าเทียบเรือของบริษัท
MEASURING TYPE : AMBIENT (ANNOYANCE SOUND LEVEL)
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER AND CALCULATION
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085590
WORK NO. : 2022-008114

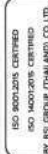
ANALYSIS NO. : T23AT318-0001 - T23AT318-0005

DATE	TIME*	RESULT (dB(A))			
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 23, 2023 T23AT318-0001	07:00-08:00 HOUR	62.6 ^u	59.3 ^u	59.9 ^u	6.8
	08:00-09:00 HOUR	64.4 ^u	59.4 ^u	62.7 ^u	8.8
	09:00-10:00 HOUR	61.6 ^u	60.5 ^u	55.1 ^u	5.8
	10:00-11:00 HOUR	63.4 ^u	63.4 ^u	57.0 ^u	8.1
	11:00-12:00 HOUR	59.4 ^u	52.1 ^u	58.5 ^u	8.5
	12:00-13:00 HOUR	59.6 ^u	54.3 ^u	58.1 ^u	8.8
	13:00-14:00 HOUR	64.6 ^u	64.0 ^u	55.7 ^u	2.9
	14:00-15:00 HOUR	60.4 ^u	54.1 ^u	59.2 ^u	7.3
	15:00-16:00 HOUR	54.0 ^u	49.6 ^u	52.0 ^u	3.0
	16:00-17:00 HOUR	63.5 ^u	54.9 ^u	62.9 ^u	8.5
	17:00-18:00 HOUR	58.5 ^u	52.1 ^u	57.4 ^u	6.7
	18:00-19:00 HOUR	60.7 ^u	58.6 ^u	56.5 ^u	6.8
	19:00-20:00 HOUR	52.7 ^u	47.4 ^u	51.2 ^u	6.2
	20:00-21:00 HOUR	55.6 ^u	51.0 ^u	53.8 ^u	4.4
	21:00-22:00 HOUR	54.0 ^u	50.4 ^u	51.5 ^u	3.3
	NIGHT TIME ²⁾				
	22:00-22:05 HOUR	52.1 ^u	51.3 ^u	47.4 ^u	<0.8
	22:05-22:10 HOUR	51.1 ^u	51.3 ^u	<0.8 ^u	<0.8
	22:10-22:15 HOUR	52.2 ^u	51.3 ^u	47.9 ^u	<0.8
	22:15-22:20 HOUR	52.7 ^u	51.3 ^u	50.1 ^u	2.1
	22:20-22:25 HOUR	52.0 ^u	51.3 ^u	46.7 ^u	<0.8
	22:25-22:30 HOUR	53.1 ^u	51.3 ^u	51.4 ^u	3.4
	22:30-22:35 HOUR	51.9 ^u	49.9 ^u	50.6 ^u	3.7
	22:35-22:40 HOUR	50.6 ^u	49.9 ^u	45.3 ^u	<0.8
	22:40-22:45 HOUR	51.8 ^u	49.9 ^u	50.3 ^u	3.4
	22:45-22:50 HOUR	50.5 ^u	48.9 ^u	48.4 ^u	1.7
	22:50-22:55 HOUR	50.9 ^u	48.9 ^u	49.6 ^u	2.9
	22:55-23:00 HOUR	51.5 ^u	48.9 ^u	51.0 ^u	4.3
	23:00-23:05 HOUR	49.3 ^u	49.8 ^u	<0.8 ^u	<0.8
	23:05-23:10 HOUR	51.2 ^u	49.8 ^u	48.6 ^u	1.6
	23:10-23:15 HOUR	50.2 ^u	49.8 ^u	42.6 ^u	<0.8
	23:15-23:20 HOUR	50.1 ^u	49.2 ^u	45.8 ^u	<0.8

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/14



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk-41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.laeconsultant.com E-mail: lae@laeconsultant.com

RESULT dB(A)

TIME*	RESULT dB(A)	
	L _{max} 1 hour	L _{avg} 1 hour
07:00-08:00 HOUR	57.6	79.6
08:00-09:00 HOUR	52.9	74.7
09:00-10:00 HOUR	54.2	78.0
10:00-11:00 HOUR	55.3	72.3
11:00-12:00 HOUR	53.4	78.0
12:00-13:00 HOUR	54.6	83.9
13:00-14:00 HOUR	56.6	80.7
14:00-15:00 HOUR	52.8	80.0
15:00-16:00 HOUR	47.5	71.2
16:00-17:00 HOUR	48.9	75.6
17:00-18:00 HOUR	51.5	69.0
18:00-19:00 HOUR	49.9	75.3
19:00-20:00 HOUR	52.0	77.7
20:00-21:00 HOUR	52.7	69.5
21:00-22:00 HOUR	51.1	75.7
22:00-23:00 HOUR	45.8	71.3
23:00-00:00 HOUR	43.9	68.4
00:00-01:00 HOUR	45.7	66.2
01:00-02:00 HOUR	48.6	69.4
02:00-03:00 HOUR	54.0	72.9
03:00-04:00 HOUR	51.6	75.1
04:00-05:00 HOUR	51.2	71.5
05:00-06:00 HOUR	51.7	76.9
06:00-07:00 HOUR	58.6	89.1
L _{max} 24 hours		53.1
L _{avg}		59.0

h.s. ๗
(MR. SILA BANJONGAIRUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

5/5

2023-U085595

- End of Analysis Report -

DATE	TIME*	RESULT (dB(A)) เครื่องทาบวัดเสียงต่อตาราง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 24, 2023 T23AT318-0001	NIGHT TIME ^{2/}					
	03:00-03:05 HOUR	52.0 ^{2/}	49.6 ***	51.3 ^{2/}	47.1 ***	4.2
	03:05-03:10 HOUR	51.8 ^{2/}	49.6 ***	50.8 ^{2/}	47.1 ***	3.7
	03:10-03:15 HOUR	50.7 ^{2/}	49.6 ***	47.2 ^{2/}	47.1 ***	<0.8
	03:15-03:20 HOUR	52.4 ^{2/}	50.5 ***	50.9 ^{2/}	47.9 ***	3.0
	03:20-03:25 HOUR	50.4 ^{2/}	50.5 ***	<0.8 ^{2/}	47.9 ***	<0.8
	03:25-03:30 HOUR	50.1 ^{2/}	50.5 ***	<0.8 ^{2/}	47.9 ***	<0.8
	03:30-03:35 HOUR	51.8 ^{2/}	51.1 ***	46.5 ^{2/}	48.2 ***	<0.8
	03:35-03:40 HOUR	51.0 ^{2/}	51.1 ***	48.2 ^{2/}	48.2 ***	<0.8
	03:40-03:45 HOUR	51.9 ^{2/}	51.1 ***	47.2 ^{2/}	48.2 ***	<0.8
	03:45-03:50 HOUR	51.6 ^{2/}	51.8 ***	<0.8 ^{2/}	48.2 ***	<0.8
	03:50-03:55 HOUR	52.7 ^{2/}	51.8 ***	48.4 ^{2/}	48.2 ***	<0.8
	03:55-04:00 HOUR	55.6 ^{2/}	51.8 ***	56.3 ^{2/}	48.2 ***	8.1
	04:00-04:05 HOUR	50.4 ^{2/}	49.6 ***	45.7 ^{2/}	48.0 ***	<0.8
	04:05-04:10 HOUR	51.6 ^{2/}	49.6 ***	50.3 ^{2/}	48.0 ***	2.3
	04:10-04:15 HOUR	51.5 ^{2/}	49.6 ***	50.0 ^{2/}	48.0 ***	2.0
	04:15-04:20 HOUR	50.9 ^{2/}	51.2 ***	<0.8 ^{2/}	49.0 ***	<0.8
	04:20-04:25 HOUR	53.7 ^{2/}	51.2 ***	53.1 ^{2/}	49.0 ***	4.1
	04:25-04:30 HOUR	51.6 ^{2/}	51.2 ***	44.0 ^{2/}	49.0 ***	<0.8
	04:30-04:35 HOUR	53.0 ^{2/}	51.1 ***	51.5 ^{2/}	49.0 ***	2.5
	04:35-04:40 HOUR	53.4 ^{2/}	51.1 ***	52.5 ^{2/}	49.0 ***	3.5
	04:40-04:45 HOUR	51.6 ^{2/}	51.1 ***	45.0 ^{2/}	49.0 ***	<0.8
	04:45-04:50 HOUR	51.9 ^{2/}	50.8 ***	48.4 ^{2/}	49.2 ***	<0.8
	04:50-04:55 HOUR	52.1 ^{2/}	50.8 ***	49.2 ^{2/}	49.2 ***	<0.8
	04:55-05:00 HOUR	52.4 ^{2/}	50.8 ***	50.3 ^{2/}	49.2 ***	1.1
	05:00-05:05 HOUR	51.0 ^{2/}	50.1 ***	46.7 ^{2/}	48.2 ***	<0.8
	05:05-05:10 HOUR	52.1 ^{2/}	50.1 ***	50.8 ^{2/}	48.2 ***	2.6
	05:10-05:15 HOUR	50.1 ***	50.1 ***	50.5 ^{2/}	48.2 ***	2.3
	05:15-05:20 HOUR	53.9 ^{2/}	50.4 ***	54.3 ^{2/}	47.4 ***	6.9
	05:20-05:25 HOUR	51.9 ^{2/}	50.4 ***	49.6 ^{2/}	47.4 ***	2.2
	05:25-05:30 HOUR	53.4 ^{2/}	50.4 ***	53.4 ^{2/}	47.4 ***	6.0
	05:30-05:35 HOUR	51.3 ^{2/}	51.0 ***	42.5 ^{2/}	48.1 ***	<0.8
	05:35-05:40 HOUR	52.2 ^{2/}	51.0 ***	49.0 ^{2/}	48.1 ***	0.9
	05:40-05:45 HOUR	51.6 ^{2/}	51.0 ***	45.7 ^{2/}	48.1 ***	<0.8
	05:45-05:50 HOUR	52.3 ^{2/}	52.7 ***	<0.8 ^{2/}	48.2 ***	<0.8
	05:50-05:55 HOUR	54.3 ^{2/}	52.7 ***	52.2 ^{2/}	48.2 ***	4.0
	05:55-06:00 HOUR	53.0 ^{2/}	52.7 ***	44.2 ^{2/}	48.2 ***	<0.8
	DAY TIME ^{3/}					
	06:00-07:00 HOUR	60.6 ^{2/}	55.3 **	59.1 ^{2/}	50.5 **	8.6
	DAY TIME ^{4/}					
	07:00-08:00 HOUR	60.9 ^{2/}	60.1 **	53.2 ^{2/}	52.4 **	0.8
	08:00-09:00 HOUR	60.7 ^{2/}	54.7 **	59.4 ^{2/}	51.6 **	7.8
	09:00-10:00 HOUR	59.6 ^{2/}	58.7 **	52.3 ^{2/}	53.3 **	<0.8
	10:00-11:00 HOUR	60.4 ^{2/}	56.2 **	60.4 ^{2/}	50.8 **	7.5
	11:00-12:00 HOUR	62.7 ^{2/}	60.2 **	59.1 ^{2/}	51.4 **	7.7
	12:00-13:00 HOUR	58.9 ^{2/}	58.1 **	51.2 ^{2/}	50.3 **	0.9

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

DATE	TIME*	RESULT (dB(A)) เครื่องทาบวัดเสียงต่อตาราง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 23, 2023 T23AT318-0001	NIGHT TIME ^{2/}					
	23:20-23:25 HOUR	50.5 ^{2/}	49.2 ***	47.6 ^{2/}	46.6 ***	1.0
	23:25-23:30 HOUR	51.6 ^{2/}	49.2 ***	50.9 ^{2/}	46.6 ***	4.3
	23:30-23:35 HOUR	51.3 ^{2/}	48.1 ***	49.3 ^{2/}	46.0 ***	5.5
	23:35-23:40 HOUR	50.3 ^{2/}	48.1 ***	49.3 ^{2/}	46.0 ***	3.3
	23:40-23:45 HOUR	51.3 ^{2/}	48.1 ***	51.5 ^{2/}	46.0 ***	5.5
	23:45-23:50 HOUR	50.1 ^{2/}	49.0 ***	46.6 ^{2/}	46.9 ***	<0.8
	23:50-23:55 HOUR	49.0 ^{2/}	49.0 ***	<0.8 ^{2/}	46.9 ***	<0.8
	23:55-00:00 HOUR	52.1 ^{2/}	49.0 ***	52.2 ^{2/}	46.9 ***	5.3
	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	50.6 ^{2/}	48.5 ***	49.4 ^{2/}	46.2 ***	3.2
SEPTEMBER 24, 2023 T23AT318-0001	00:05-00:10 HOUR	50.0 ^{2/}	48.5 ***	47.7 ^{2/}	46.2 ***	1.5
	00:10-00:15 HOUR	51.4 ^{2/}	48.5 ***	51.3 ^{2/}	46.2 ***	5.1
	00:15-00:20 HOUR	51.9 ^{2/}	50.8 ***	48.4 ^{2/}	47.2 ***	1.2
	00:20-00:25 HOUR	51.2 ^{2/}	50.8 ***	43.6 ^{2/}	47.2 ***	<0.8
	00:25-00:30 HOUR	53.6 ^{2/}	50.8 ***	53.4 ^{2/}	47.2 ***	6.2
	00:30-00:35 HOUR	50.7 ^{2/}	50.0 ***	45.4 ^{2/}	47.0 ***	<0.8
	00:35-00:40 HOUR	50.4 ^{2/}	50.0 ***	42.8 ^{2/}	47.0 ***	<0.8
	00:40-00:45 HOUR	50.4 ^{2/}	50.0 ***	42.8 ^{2/}	47.0 ***	<0.8
	00:45-00:50 HOUR	51.0 ^{2/}	49.9 ***	47.5 ^{2/}	47.2 ***	<0.8
	00:50-00:55 HOUR	51.8 ^{2/}	49.9 ***	50.3 ^{2/}	47.2 ***	3.1
	00:55-01:00 HOUR	51.4 ^{2/}	49.9 ***	49.1 ^{2/}	47.2 ***	1.9
	01:00-01:05 HOUR	50.0 ^{2/}	49.1 ***	45.7 ^{2/}	46.7 ***	<0.8
	01:05-01:10 HOUR	49.2 ^{2/}	49.1 ***	35.8 ^{2/}	46.7 ***	<0.8
	01:10-01:15 HOUR	51.2 ^{2/}	49.1 ***	50.0 ^{2/}	46.7 ***	3.3
	01:15-01:20 HOUR	49.3 ^{2/}	48.1 ***	46.1 ^{2/}	45.7 ***	<0.8
	01:20-01:25 HOUR	48.9 ^{2/}	48.1 ***	44.2 ^{2/}	45.7 ***	<0.8
	01:25-01:30 HOUR	48.1 ^{2/}	48.1 ***	<0.8 ^{2/}	45.7 ***	<0.8
	01:30-01:35 HOUR	50.3 ^{2/}	49.9 ***	42.7 ^{2/}	46.8 ***	<0.8
	01:35-01:40 HOUR	50.4 ^{2/}	49.9 ***	43.8 ^{2/}	46.8 ***	<0.8
	01:40-01:45 HOUR	53.6 ^{2/}	49.9 ***	54.2 ^{2/}	46.8 ***	7.4
	01:45-01:50 HOUR	51.9 ^{2/}	50.4 ***	49.6 ^{2/}	46.4 ***	3.2
	01:50-01:55 HOUR	53.4 ^{2/}	50.4 ***	53.4 ^{2/}	46.4 ***	7.0
	01:55-02:00 HOUR	52.2 ^{2/}	50.4 ***	50.5 ^{2/}	46.4 ***	4.1
	02:00-02:05 HOUR	55.0 ^{2/}	50.9 ***	55.9 ^{2/}	47.1 ***	8.8
	02:05-02:10 HOUR	51.6 ^{2/}	50.9 ***	46.3 ^{2/}	47.1 ***	<0.8
	02:10-02:15 HOUR	50.8 ^{2/}	50.9 ***	<0.8 ^{2/}	47.1 ***	<0.8
	02:15-02:20 HOUR	49.8 ^{2/}	48.9 ***	45.5 ^{2/}	46.5 ***	<0.8
	02:20-02:25 HOUR	51.8 ^{2/}	48.9 ***	51.7 ^{2/}	46.5 ***	5.2
	02:25-02:30 HOUR	50.9 ^{2/}	48.9 ***	49.6 ^{2/}	46.5 ***	3.1
	02:30-02:35 HOUR	51.6 ^{2/}	52.2 ***	<0.8 ^{2/}	48.7 ***	<0.8
	02:35-02:40 HOUR	52.0 ^{2/}	52.2 ***	<0.8 ^{2/}	48.7 ***	<0.8
	02:40-02:45 HOUR	53.5 ^{2/}	52.2 ***	50.6 ^{2/}	48.7 ***	1.9
	02:45-02:50 HOUR	54.2 ^{2/}	49.7 ***	55.3 ^{2/}	46.7 ***	8.6
	02:50-02:55 HOUR	52.0 ^{2/}	49.7 ***	51.1 ^{2/}	46.7 ***	4.4
	02:55-03:00 HOUR	51.4 ^{2/}	49.7 ***	49.5 ^{2/}	46.7 ***	2.8

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 25, 2023 TZ3AT318-0002	NIGHT TIME 2/					
	00:50-00:55 HOUR	52.6 ^u	48.4 ***	53.5 ^u	46.1 ***	7.4
	00:55-01:00 HOUR	49.9 ^u	48.4 ***	47.6 ^u	46.1 ***	1.5
	01:00-01:05 HOUR	48.4 ^u	46.3 ***	47.2 ^u	44.4 ***	2.8
	01:05-01:10 HOUR	48.4 ^u	46.3 ***	47.2 ^u	44.4 ***	2.8
	01:10-01:15 HOUR	48.0 ^u	46.3 ***	46.1 ^u	44.4 ***	1.7
	01:15-01:20 HOUR	49.2 ^u	47.2 ***	47.9 ^u	45.2 ***	2.7
	01:20-01:25 HOUR	48.9 ^u	47.2 ***	47.0 ^u	45.2 ***	1.8
	01:25-01:30 HOUR	49.5 ^u	47.2 ***	48.6 ^u	45.2 ***	3.4
	01:30-01:35 HOUR	49.7 ^u	47.7 ***	48.4 ^u	45.4 ***	3.0
	01:35-01:40 HOUR	50.2 ^u	47.7 ***	49.6 ^u	45.4 ***	4.2
	01:40-01:45 HOUR	49.2 ^u	47.7 ***	46.9 ^u	45.4 ***	1.5
	01:45-01:50 HOUR	49.4 ^u	46.9 ***	48.8 ^u	45.3 ***	3.5
	01:50-01:55 HOUR	49.0 ^u	46.9 ***	47.8 ^u	45.3 ***	2.5
	01:55-02:00 HOUR	48.5 ^u	46.9 ***	46.4 ^u	45.3 ***	1.1
	02:00-02:05 HOUR	49.2 ^u	49.2 ***	<0.8 ^u	47.4 ***	<0.8
	02:05-02:10 HOUR	50.0 ^u	49.2 ***	45.3 ^u	47.4 ***	<0.8
	02:10-02:15 HOUR	49.7 ^u	49.2 ***	43.1 ^u	47.4 ***	<0.8
	02:15-02:20 HOUR	50.9 ^u	47.5 ***	51.2 ^u	46.1 ***	5.1
	02:20-02:25 HOUR	50.0 ^u	47.5 ***	49.4 ^u	46.1 ***	3.3
	02:25-02:30 HOUR	50.4 ^u	47.5 ***	50.3 ^u	46.1 ***	4.2
	02:30-02:35 HOUR	48.7 ^u	48.8 ***	<0.8 ^u	47.0 ***	<0.8
	02:35-02:40 HOUR	49.4 ^u	48.8 ***	43.5 ^u	47.0 ***	<0.8
	02:40-02:45 HOUR	49.6 ^u	48.8 ***	44.9 ^u	47.0 ***	<0.8
	02:45-02:50 HOUR	50.1 ^u	47.4 ***	49.8 ^u	46.0 ***	3.8
	02:50-02:55 HOUR	49.8 ^u	47.4 ***	49.1 ^u	46.0 ***	3.1
	02:55-03:00 HOUR	49.1 ^u	47.4 ***	47.2 ^u	46.0 ***	1.2
	03:00-03:05 HOUR	49.6 ^u	46.9 ***	49.3 ^u	45.4 ***	3.9
	03:05-03:10 HOUR	47.8 ^u	46.9 ***	43.5 ^u	45.4 ***	<0.8
	03:10-03:15 HOUR	48.4 ^u	46.9 ***	46.1 ^u	45.4 ***	<0.8
	03:15-03:20 HOUR	48.8 ^u	48.1 ***	43.5 ^u	46.5 ***	<0.8
	03:20-03:25 HOUR	49.3 ^u	48.1 ***	46.1 ^u	46.5 ***	<0.8
	03:25-03:30 HOUR	48.9 ^u	48.1 ***	44.2 ^u	46.5 ***	<0.8
	03:30-03:35 HOUR	49.0 ^u	48.0 ***	45.1 ^u	46.1 ***	<0.8
	03:35-03:40 HOUR	49.3 ^u	48.0 ***	46.4 ^u	46.1 ***	<0.8
	03:40-03:45 HOUR	49.3 ^u	48.0 ***	46.4 ^u	46.1 ***	<0.8
	03:45-03:50 HOUR	50.8 ^u	48.0 ***	50.6 ^u	46.5 ***	4.1
	03:50-03:55 HOUR	50.0 ^u	48.0 ***	48.7 ^u	46.5 ***	2.2
	03:55-04:00 HOUR	49.6 ^u	48.0 ***	47.5 ^u	46.5 ***	1.0
	04:00-04:05 HOUR	50.6 ^u	49.6 ***	46.7 ^u	47.5 ***	<0.8
	04:05-04:10 HOUR	49.9 ^u	49.6 ***	41.1 ^u	47.5 ***	<0.8
	04:10-04:15 HOUR	49.5 ^u	49.6 ***	<0.8 ^u	47.5 ***	<0.8
	04:15-04:20 HOUR	52.5 ^u	51.0 ***	50.2 ^u	47.6 ***	2.6
	04:20-04:25 HOUR	55.3 ^u	51.0 ***	56.3 ^u	47.6 ***	8.7
	04:25-04:30 HOUR	53.2 ^u	51.0 ***	52.2 ^u	47.6 ***	4.6

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 24, 2023 TZ3AT318-0002	DAY TIME 1/					
	13:00-14:00 HOUR	55.4 ^u	49.3 **	54.2 ^u	47.0 **	7.2
	14:00-15:00 HOUR	53.6 ^u	47.8 **	52.3 ^u	46.0 **	6.3
	15:00-16:00 HOUR	54.1 ^u	48.3 **	52.8 ^u	46.2 **	6.6
	16:00-17:00 HOUR	49.2 ^u	47.0 **	45.2 ^u	44.1 **	1.1
	17:00-18:00 HOUR	48.4 ^u	46.7 **	43.5 ^u	43.0 **	<0.8
	18:00-19:00 HOUR	51.4 ^u	46.5 **	49.7 ^u	43.6 **	6.1
	19:00-20:00 HOUR	55.2 ^u	47.9 **	54.3 ^u	45.9 **	8.4
	20:00-21:00 HOUR	45.9 ^u	43.5 **	42.2 ^u	40.9 **	1.3
	21:00-22:00 HOUR	44.4 ^u	42.3 **	40.2 ^u	40.1 **	<0.8
	NIGHT TIME 2/					
	22:00-22:05 HOUR	50.6 ^u	48.8 ***	48.9 ^u	46.6 ***	2.3
	22:05-22:10 HOUR	50.9 ^u	48.8 ***	49.7 ^u	46.6 ***	3.1
	22:10-22:15 HOUR	50.8 ^u	48.8 ***	49.5 ^u	46.6 ***	2.9
	22:15-22:20 HOUR	52.3 ^u	48.9 ***	52.6 ^u	46.2 ***	6.4
	22:20-22:25 HOUR	51.9 ^u	48.9 ***	51.9 ^u	46.2 ***	5.7
	22:25-22:30 HOUR	50.5 ^u	48.9 ***	48.4 ^u	46.2 ***	2.2
	22:30-22:35 HOUR	50.9 ^u	49.2 ***	49.0 ^u	47.1 ***	1.9
	22:35-22:40 HOUR	49.9 ^u	49.2 ***	44.6 ^u	47.1 ***	<0.8
	22:40-22:45 HOUR	50.5 ^u	49.2 ***	47.6 ^u	47.1 ***	<0.8
	22:45-22:50 HOUR	51.2 ^u	48.1 ***	51.3 ^u	46.3 ***	5.0
	22:50-22:55 HOUR	50.5 ^u	48.1 ***	49.8 ^u	46.3 ***	3.5
	22:55-23:00 HOUR	50.3 ^u	48.1 ***	49.3 ^u	46.3 ***	3.0
	23:00-23:05 HOUR	50.1 ^u	48.9 ***	46.9 ^u	46.6 ***	<0.8
	23:05-23:10 HOUR	50.6 ^u	48.9 ***	48.7 ^u	46.6 ***	2.1
	23:10-23:15 HOUR	49.0 ^u	48.9 ***	35.6 ^u	46.6 ***	<0.8
	23:15-23:20 HOUR	49.2 ^u	49.3 ***	<0.8 ^u	47.2 ***	<0.8
	23:20-23:25 HOUR	50.9 ^u	49.3 ***	48.8 ^u	47.2 ***	1.6
	23:25-23:30 HOUR	51.2 ^u	49.3 ***	49.7 ^u	47.2 ***	2.5
	23:30-23:35 HOUR	50.4 ^u	48.1 ***	49.5 ^u	46.6 ***	2.9
	23:35-23:40 HOUR	51.0 ^u	48.1 ***	50.9 ^u	46.6 ***	4.3
	23:40-23:45 HOUR	50.3 ^u	48.1 ***	49.3 ^u	46.6 ***	2.7
	23:45-23:50 HOUR	50.7 ^u	48.5 ***	49.7 ^u	46.7 ***	3.0
	23:50-23:55 HOUR	50.7 ^u	48.5 ***	49.7 ^u	46.7 ***	3.0
	23:55-00:00 HOUR	50.8 ^u	48.5 ***	49.9 ^u	46.7 ***	3.2
SEPTEMBER 25, 2023 TZ3AT318-0002	NIGHT TIME 2/					
	00:00-00:05 HOUR	50.3 ^u	50.1 ***	39.8 ^u	48.2 ***	<0.8
	00:05-00:10 HOUR	50.6 ^u	50.1 ***	44.0 ^u	48.2 ***	<0.8
	00:10-00:15 HOUR	50.8 ^u	50.1 ***	45.5 ^u	48.2 ***	<0.8
	00:15-00:20 HOUR	50.6 ^u	50.2 ***	43.0 ^u	48.2 ***	<0.8
	00:20-00:25 HOUR	51.9 ^u	50.2 ***	50.0 ^u	48.2 ***	1.8
	00:25-00:30 HOUR	52.9 ^u	50.2 ***	52.6 ^u	48.2 ***	4.4
	00:30-00:35 HOUR	50.6 ^u	48.9 ***	48.7 ^u	47.0 ***	1.7
	00:35-00:40 HOUR	50.6 ^u	48.9 ***	48.7 ^u	47.0 ***	1.7
	00:40-00:45 HOUR	49.9 ^u	48.9 ***	46.0 ^u	47.0 ***	<0.8
	00:45-00:50 HOUR	49.6 ^u	48.4 ***	46.4 ^u	46.1 ***	<0.8

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 25, 2023 TZ3AT318-0003	NIGHT TIME ^{2/}					
	22:40-22:45 HOUR	51.2 ^{2/}	51.6 ***	<0.8 ^{2/}	48.5 ***	<0.8
	22:45-22:50 HOUR	56.5 ^{2/}	55.6 ***	52.2 ^{2/}	51.9 ***	<0.8
	22:50-22:55 HOUR	53.4 ^{2/}	55.6 ***	<0.8 ^{2/}	51.9 ***	<0.8
	22:55-23:00 HOUR	59.3 ^{2/}	55.6 ***	59.9 ^{2/}	51.9 ***	8.0
	23:00-23:05 HOUR	53.1 ^{2/}	51.4 ***	51.2 ^{2/}	48.7 ***	2.5
	23:05-23:10 HOUR	54.8 ^{2/}	51.4 ***	55.1 ^{2/}	48.7 ***	5.4
	23:10-23:15 HOUR	53.6 ^{2/}	51.4 ***	52.6 ^{2/}	48.7 ***	3.9
	23:15-23:20 HOUR	54.0 ^{2/}	49.9 ***	54.9 ^{2/}	47.0 ***	7.9
	23:20-23:25 HOUR	52.3 ^{2/}	49.9 ***	51.6 ^{2/}	47.0 ***	4.6
	23:25-23:30 HOUR	51.3 ^{2/}	49.9 ***	51.3 ^{2/}	47.0 ***	4.3
	23:30-23:35 HOUR	51.3 ^{2/}	48.8 ***	50.7 ^{2/}	46.8 ***	3.9
	23:35-23:40 HOUR	52.5 ^{2/}	48.8 ***	53.1 ^{2/}	46.8 ***	6.3
	23:40-23:45 HOUR	51.5 ^{2/}	48.8 ***	51.2 ^{2/}	46.8 ***	4.4
	23:45-23:50 HOUR	50.6 ^{2/}	51.0 ***	<0.8 ^{2/}	47.4 ***	<0.8
	23:50-23:55 HOUR	50.4 ^{2/}	51.0 ***	<0.8 ^{2/}	47.4 ***	<0.8
	23:55-00:00 HOUR	52.1 ^{2/}	51.0 ***	48.6 ^{2/}	47.4 ***	1.2
SEPTEMBER 26, 2023 TZ3AT318-0003	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	53.6 ^{2/}	49.0 ***	54.8 ^{2/}	47.1 ***	7.7
	00:05-00:10 HOUR	52.5 ^{2/}	49.0 ***	52.9 ^{2/}	47.1 ***	5.8
	00:10-00:15 HOUR	50.2 ^{2/}	49.0 ***	47.0 ^{2/}	47.1 ***	<0.8
	00:15-00:20 HOUR	50.2 ^{2/}	49.5 ***	44.9 ^{2/}	46.8 ***	<0.8
	00:20-00:25 HOUR	51.2 ^{2/}	49.5 ***	49.3 ^{2/}	46.8 ***	2.5
	00:25-00:30 HOUR	51.3 ^{2/}	49.5 ***	49.6 ^{2/}	46.8 ***	2.8
	00:30-00:35 HOUR	52.3 ^{2/}	51.5 ***	47.6 ^{2/}	48.6 ***	<0.8
	00:35-00:40 HOUR	53.4 ^{2/}	51.5 ***	51.9 ^{2/}	48.6 ***	3.3
	00:40-00:45 HOUR	50.5 ^{2/}	51.5 ***	<0.8 ^{2/}	48.6 ***	<0.8
	00:45-00:50 HOUR	52.8 ^{2/}	49.1 ***	53.4 ^{2/}	47.4 ***	6.0
	00:50-00:55 HOUR	51.6 ^{2/}	49.1 ***	51.0 ^{2/}	47.4 ***	3.6
	00:55-01:00 HOUR	50.7 ^{2/}	49.1 ***	48.6 ^{2/}	47.4 ***	1.2
	01:00-01:05 HOUR	51.2 ^{2/}	50.8 ***	43.6 ^{2/}	48.5 ***	<0.8
	01:05-01:10 HOUR	51.2 ^{2/}	50.8 ***	43.6 ^{2/}	48.5 ***	<0.8
	01:10-01:15 HOUR	51.5 ^{2/}	50.8 ***	46.2 ^{2/}	48.5 ***	<0.8
	01:15-01:20 HOUR	51.4 ^{2/}	51.0 ***	43.8 ^{2/}	47.9 ***	<0.8
	01:20-01:25 HOUR	53.0 ^{2/}	51.0 ***	51.7 ^{2/}	47.9 ***	3.8
	01:25-01:30 HOUR	50.5 ^{2/}	51.0 ***	<0.8 ^{2/}	47.9 ***	<0.8
	01:30-01:35 HOUR	52.6 ^{2/}	48.5 ***	53.5 ^{2/}	46.7 ***	6.8
	01:35-01:40 HOUR	53.2 ^{2/}	48.5 ***	54.4 ^{2/}	46.7 ***	7.7
	01:40-01:45 HOUR	50.2 ^{2/}	48.5 ***	48.3 ^{2/}	46.7 ***	1.6
	01:45-01:50 HOUR	51.4 ^{2/}	49.9 ***	49.1 ^{2/}	47.3 ***	1.8
	01:50-01:55 HOUR	51.5 ^{2/}	49.9 ***	49.4 ^{2/}	47.3 ***	2.1
	01:55-02:00 HOUR	51.1 ^{2/}	49.9 ***	47.9 ^{2/}	47.3 ***	<0.8
	02:00-02:05 HOUR	50.3 ^{2/}	49.1 ***	47.1 ^{2/}	46.4 ***	<0.8
	02:05-02:10 HOUR	51.5 ^{2/}	49.1 ***	50.8 ^{2/}	46.4 ***	4.4
	02:10-02:15 HOUR	50.8 ^{2/}	49.1 ***	48.9 ^{2/}	46.4 ***	2.5
	02:15-02:20 HOUR	51.2 ^{2/}	48.1 ***	51.3 ^{2/}	46.0 ***	5.3

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO., LTD.

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

7/14

2023-U085590

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 25, 2023 TZ3AT318-0002	NIGHT TIME ^{2/}					
	04:30-04:35 HOUR	49.4 ^{2/}	47.9 ***	47.1 ^{2/}	46.1 ***	1.0
	04:35-04:40 HOUR	49.2 ^{2/}	47.9 ***	46.3 ^{2/}	46.1 ***	<0.8
	04:40-04:45 HOUR	47.9 ^{2/}	47.9 ***	<0.8 ^{2/}	46.1 ***	<0.8
	04:45-04:50 HOUR	48.3 ^{2/}	48.0 ***	39.5 ^{2/}	46.2 ***	<0.8
	04:50-04:55 HOUR	49.1 ^{2/}	48.0 ***	45.6 ^{2/}	46.2 ***	<0.8
	04:55-05:00 HOUR	49.3 ^{2/}	48.0 ***	46.4 ^{2/}	46.2 ***	<0.8
	05:00-05:05 HOUR	49.9 ^{2/}	49.8 ***	36.5 ^{2/}	48.2 ***	<0.8
	05:05-05:10 HOUR	50.5 ^{2/}	49.8 ***	45.2 ^{2/}	48.2 ***	<0.8
	05:10-05:15 HOUR	50.9 ^{2/}	49.8 ***	47.4 ^{2/}	48.2 ***	<0.8
	05:15-05:20 HOUR	51.0 ^{2/}	49.2 ***	49.3 ^{2/}	47.5 ***	1.8
	05:20-05:25 HOUR	52.0 ^{2/}	49.2 ***	51.8 ^{2/}	47.5 ***	4.3
	05:25-05:30 HOUR	51.7 ^{2/}	49.2 ***	51.1 ^{2/}	47.5 ***	3.6
	05:30-05:35 HOUR	51.3 ^{2/}	49.6 ***	49.4 ^{2/}	47.4 ***	2.0
	05:35-05:40 HOUR	50.9 ^{2/}	49.6 ***	48.0 ^{2/}	47.4 ***	<0.8
	05:40-05:45 HOUR	51.3 ^{2/}	49.6 ***	49.4 ^{2/}	47.4 ***	2.0
	05:45-05:50 HOUR	51.4 ^{2/}	50.8 ***	45.5 ^{2/}	46.0 ***	<0.8
	05:50-05:55 HOUR	50.8 ^{2/}	50.8 ***	<0.8 ^{2/}	46.0 ***	<0.8
	05:55-06:00 HOUR	51.1 ^{2/}	50.8 ***	42.3 ^{2/}	46.0 ***	<0.8
SEPTEMBER 25, 2023 TZ3AT318-0003	DAY TIME ^{3/}					
	06:00-07:00 HOUR	59.1 ^{2/}	56.8 **	55.2 ^{2/}	51.3 **	3.9
	07:00-08:00 HOUR	60.1 ^{2/}	59.2 **	52.8 ^{2/}	46.9 **	5.9
	08:00-09:00 HOUR	61.6 ^{2/}	61.4 **	48.1 ^{2/}	47.7 **	<0.8
	09:00-10:00 HOUR	57.3 ^{2/}	55.7 **	52.2 ^{2/}	45.1 **	7.1
	10:00-11:00 HOUR	60.1 ^{2/}	58.2 **	55.6 ^{2/}	48.8 **	7.2
	11:00-12:00 HOUR	57.3 ^{2/}	54.6 **	54.0 ^{2/}	46.7 **	7.3
	12:00-13:00 HOUR	53.8 ^{2/}	50.1 **	51.4 ^{2/}	43.3 **	8.1
	13:00-14:00 HOUR	49.3 ^{2/}	44.4 **	47.6 ^{2/}	41.7 **	5.9
	14:00-15:00 HOUR	50.6 ^{2/}	47.4 **	47.8 ^{2/}	43.6 **	4.2
	15:00-16:00 HOUR	56.2 ^{2/}	55.7 **	46.6 ^{2/}	42.8 **	3.8
	16:00-17:00 HOUR	46.0 ^{2/}	44.6 **	40.4 ^{2/}	41.0 **	<0.8
	17:00-18:00 HOUR	47.2 ^{2/}	45.9 **	41.3 ^{2/}	42.4 **	<0.8
	18:00-19:00 HOUR	45.4 ^{2/}	44.9 **	35.8 ^{2/}	41.0 **	<0.8
	19:00-20:00 HOUR	45.7 ^{2/}	44.0 **	40.8 ^{2/}	41.5 **	<0.8
	20:00-21:00 HOUR	50.1 ^{2/}	47.0 **	47.2 ^{2/}	42.6 **	4.6
	21:00-22:00 HOUR	53.9 ^{2/}	47.2 **	52.9 ^{2/}	44.7 **	8.2
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	51.6 ^{2/}	49.3 ***	50.7 ^{2/}	47.1 ***	3.6
	22:05-22:10 HOUR	51.9 ^{2/}	49.3 ***	51.4 ^{2/}	47.1 ***	4.3
	22:10-22:15 HOUR	52.5 ^{2/}	49.3 ***	52.7 ^{2/}	47.1 ***	5.6
	22:15-22:20 HOUR	51.3 ^{2/}	49.2 ***	50.1 ^{2/}	47.5 ***	2.6
	22:20-22:25 HOUR	51.3 ^{2/}	49.2 ***	50.1 ^{2/}	47.5 ***	2.6
	22:25-22:30 HOUR	51.3 ^{2/}	49.2 ***	50.1 ^{2/}	47.5 ***	2.6
	22:30-22:35 HOUR	50.9 ^{2/}	51.6 ***	<0.8 ^{2/}	48.5 ***	<0.8
	22:35-22:40 HOUR	51.3 ^{2/}	51.6 ***	<0.8 ^{2/}	48.5 ***	<0.8

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO., LTD.

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

6/14

2023-U085590

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 26, 2023	T23AT318-0003	52.9 ^{1/2}	48.6 ^{1/2}	50.9 ^{1/2}	46.1 ^{1/2}	4.8
	06:00-07:00 HOUR					
	T23AT318-0004	59.1 ^{1/2}	57.0 ^{1/2}	54.9 ^{1/2}	46.8 ^{1/2}	8.1
	07:00-08:00 HOUR					
	08:00-09:00 HOUR	58.0 ^{1/2}	55.4 ^{1/2}	54.5 ^{1/2}	47.9 ^{1/2}	6.6
	09:00-10:00 HOUR	59.5 ^{1/2}	55.8 ^{1/2}	57.1 ^{1/2}	48.9 ^{1/2}	8.2
	10:00-11:00 HOUR	58.6 ^{1/2}	51.6 ^{1/2}	57.6 ^{1/2}	49.4 ^{1/2}	8.2
	11:00-12:00 HOUR	55.8 ^{1/2}	53.1 ^{1/2}	52.5 ^{1/2}	45.4 ^{1/2}	7.1
	12:00-13:00 HOUR	51.1 ^{1/2}	46.6 ^{1/2}	49.2 ^{1/2}	42.5 ^{1/2}	6.7
	13:00-14:00 HOUR	50.9 ^{1/2}	50.3 ^{1/2}	42.0 ^{1/2}	41.5 ^{1/2}	<0.8
SEPTEMBER 26, 2023	T23AT318-0004	53.1 ^{1/2}	47.1 ^{1/2}	51.8 ^{1/2}	44.6 ^{1/2}	7.2
	14:00-15:00 HOUR					
	15:00-16:00 HOUR	54.0 ^{1/2}	46.3 ^{1/2}	53.2 ^{1/2}	44.6 ^{1/2}	8.6
	16:00-17:00 HOUR	56.9 ^{1/2}	52.3 ^{1/2}	55.1 ^{1/2}	47.7 ^{1/2}	7.4
	17:00-18:00 HOUR	54.7 ^{1/2}	48.5 ^{1/2}	53.5 ^{1/2}	45.0 ^{1/2}	8.5
	18:00-19:00 HOUR	55.3 ^{1/2}	50.6 ^{1/2}	53.5 ^{1/2}	47.8 ^{1/2}	5.7
	19:00-20:00 HOUR	52.3 ^{1/2}	44.9 ^{1/2}	51.4 ^{1/2}	42.6 ^{1/2}	8.8
	20:00-21:00 HOUR	47.3 ^{1/2}	46.0 ^{1/2}	41.4 ^{1/2}	42.2 ^{1/2}	<0.8
	21:00-22:00 HOUR	48.8 ^{1/2}	44.0 ^{1/2}	47.1 ^{1/2}	41.0 ^{1/2}	6.1
	NIGHT TIME ^{2/}					
SEPTEMBER 27, 2023	T23AT318-0004	55.9 ^{1/2}	53.7 ^{1/2}	54.9 ^{1/2}	53.1 ^{1/2}	1.8
	22:00-22:05 HOUR					
	22:05-22:10 HOUR	54.9 ^{1/2}	53.7 ^{1/2}	51.7 ^{1/2}	53.1 ^{1/2}	<0.8
	22:10-22:15 HOUR	54.6 ^{1/2}	53.7 ^{1/2}	53.1 ^{1/2}	53.1 ^{1/2}	<0.8
	22:15-22:20 HOUR	54.9 ^{1/2}	52.8 ^{1/2}	53.7 ^{1/2}	52.1 ^{1/2}	1.6
	22:20-22:25 HOUR	54.7 ^{1/2}	52.8 ^{1/2}	54.2 ^{1/2}	52.1 ^{1/2}	1.1
	22:25-22:30 HOUR	55.2 ^{1/2}	52.8 ^{1/2}	53.4 ^{1/2}	52.1 ^{1/2}	2.4
	22:30-22:35 HOUR	55.0 ^{1/2}	54.1 ^{1/2}	50.7 ^{1/2}	53.4 ^{1/2}	<0.8
	22:35-22:40 HOUR	54.9 ^{1/2}	50.2 ^{1/2}	53.4 ^{1/2}	53.4 ^{1/2}	<0.8
	22:40-22:45 HOUR	54.4 ^{1/2}	54.1 ^{1/2}	45.6 ^{1/2}	53.4 ^{1/2}	<0.8
	22:45-22:50 HOUR	54.6 ^{1/2}	54.6 ^{1/2}	<0.8 ^{1/2}	53.9 ^{1/2}	<0.8
	22:50-22:55 HOUR	54.8 ^{1/2}	54.6 ^{1/2}	44.3 ^{1/2}	53.9 ^{1/2}	<0.8
	22:55-23:00 HOUR	55.3 ^{1/2}	54.6 ^{1/2}	50.0 ^{1/2}	53.9 ^{1/2}	<0.8
	23:00-23:05 HOUR	55.4 ^{1/2}	53.9 ^{1/2}	53.1 ^{1/2}	53.1 ^{1/2}	<0.8
	23:05-23:10 HOUR	55.5 ^{1/2}	53.9 ^{1/2}	53.4 ^{1/2}	53.1 ^{1/2}	<0.8
	23:10-23:15 HOUR	55.7 ^{1/2}	53.9 ^{1/2}	54.0 ^{1/2}	53.1 ^{1/2}	0.9
	23:15-23:20 HOUR	55.9 ^{1/2}	53.9 ^{1/2}	54.6 ^{1/2}	53.0 ^{1/2}	1.6
	23:20-23:25 HOUR	55.6 ^{1/2}	53.9 ^{1/2}	53.7 ^{1/2}	53.0 ^{1/2}	<0.8
	23:25-23:30 HOUR	55.0 ^{1/2}	53.9 ^{1/2}	52.3 ^{1/2}	53.0 ^{1/2}	<0.8
	23:30-23:35 HOUR	55.2 ^{1/2}	53.2 ^{1/2}	52.3 ^{1/2}	52.3 ^{1/2}	1.0
	23:35-23:40 HOUR	54.7 ^{1/2}	53.2 ^{1/2}	52.4 ^{1/2}	52.3 ^{1/2}	<0.8
	23:40-23:45 HOUR	54.7 ^{1/2}	53.2 ^{1/2}	52.4 ^{1/2}	52.3 ^{1/2}	<0.8
	23:45-23:50 HOUR	54.3 ^{1/2}	52.5 ^{1/2}	52.6 ^{1/2}	51.4 ^{1/2}	1.2
	23:50-23:55 HOUR	54.2 ^{1/2}	52.5 ^{1/2}	52.3 ^{1/2}	51.4 ^{1/2}	0.9
	23:55-00:00 HOUR	54.2 ^{1/2}	52.5 ^{1/2}	52.3 ^{1/2}	51.4 ^{1/2}	0.9
	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	54.0 ^{1/2}	52.3 ^{1/2}	52.1 ^{1/2}	51.2 ^{1/2}	0.9
	00:05-00:10 HOUR	53.8 ^{1/2}	52.3 ^{1/2}	51.5 ^{1/2}	51.2 ^{1/2}	<0.8

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 26, 2023	T23AT318-0003	53.2 ^{1/2}	48.1 ^{1/2}	54.6 ^{1/2}	46.0 ^{1/2}	8.6
	02:20-02:25 HOUR					
	02:25-02:30 HOUR	51.3 ^{1/2}	48.1 ^{1/2}	51.5 ^{1/2}	46.0 ^{1/2}	5.5
	02:30-02:35 HOUR	49.6 ^{1/2}	49.2 ^{1/2}	42.0 ^{1/2}	47.0 ^{1/2}	<0.8
	02:35-02:40 HOUR	51.1 ^{1/2}	49.2 ^{1/2}	49.6 ^{1/2}	47.0 ^{1/2}	2.6
	02:40-02:45 HOUR	51.4 ^{1/2}	49.2 ^{1/2}	50.4 ^{1/2}	47.0 ^{1/2}	3.4
	02:45-02:50 HOUR	51.2 ^{1/2}	48.7 ^{1/2}	50.6 ^{1/2}	46.1 ^{1/2}	4.5
	02:50-02:55 HOUR	52.0 ^{1/2}	48.7 ^{1/2}	52.3 ^{1/2}	46.1 ^{1/2}	6.2
	02:55-03:00 HOUR	50.8 ^{1/2}	48.7 ^{1/2}	49.6 ^{1/2}	46.1 ^{1/2}	3.5
	03:00-03:05 HOUR	52.3 ^{1/2}	49.6 ^{1/2}	52.0 ^{1/2}	46.9 ^{1/2}	5.1
	03:05-03:10 HOUR	50.8 ^{1/2}	49.6 ^{1/2}	47.6 ^{1/2}	46.9 ^{1/2}	<0.8
	03:10-03:15 HOUR	51.8 ^{1/2}	49.6 ^{1/2}	50.8 ^{1/2}	46.9 ^{1/2}	3.9
	03:15-03:20 HOUR	49.9 ^{1/2}	48.6 ^{1/2}	47.0 ^{1/2}	46.3 ^{1/2}	<0.8
	03:20-03:25 HOUR	50.9 ^{1/2}	48.6 ^{1/2}	50.0 ^{1/2}	46.3 ^{1/2}	3.7
	03:25-03:30 HOUR	51.1 ^{1/2}	48.6 ^{1/2}	50.5 ^{1/2}	46.3 ^{1/2}	4.2
	03:30-03:35 HOUR	52.2 ^{1/2}	49.2 ^{1/2}	52.2 ^{1/2}	45.8 ^{1/2}	6.4
	03:35-03:40 HOUR	52.6 ^{1/2}	49.2 ^{1/2}	52.9 ^{1/2}	45.8 ^{1/2}	7.1
	03:40-03:45 HOUR	52.7 ^{1/2}	49.2 ^{1/2}	53.1 ^{1/2}	45.8 ^{1/2}	7.3
	03:45-03:50 HOUR	49.4 ^{1/2}	47.4 ^{1/2}	48.1 ^{1/2}	44.9 ^{1/2}	3.2
	03:50-03:55 HOUR	50.1 ^{1/2}	47.4 ^{1/2}	49.8 ^{1/2}	44.9 ^{1/2}	4.9
	03:55-04:00 HOUR	49.8 ^{1/2}	47.4 ^{1/2}	49.1 ^{1/2}	44.9 ^{1/2}	4.2
	04:00-04:05 HOUR	49.8 ^{1/2}	48.6 ^{1/2}	46.1 ^{1/2}	46.1 ^{1/2}	<0.8
	04:05-04:10 HOUR	50.5 ^{1/2}	48.6 ^{1/2}	49.0 ^{1/2}	46.1 ^{1/2}	2.9
	04:10-04:15 HOUR	51.1 ^{1/2}	48.6 ^{1/2}	50.5 ^{1/2}	46.1 ^{1/2}	4.4
	04:15-04:20 HOUR	50.4 ^{1/2}	50.3 ^{1/2}	37.0 ^{1/2}	46.7 ^{1/2}	<0.8
	04:20-04:25 HOUR	51.2 ^{1/2}	50.3 ^{1/2}	46.9 ^{1/2}	46.7 ^{1/2}	<0.8
	04:25-04:30 HOUR	50.2 ^{1/2}	50.3 ^{1/2}	<0.8 ^{1/2}	46.7 ^{1/2}	<0.8
	04:30-04:35 HOUR	52.4 ^{1/2}	48.6 ^{1/2}	53.1 ^{1/2}	46.1 ^{1/2}	7.0
	04:35-04:40 HOUR	49.7 ^{1/2}	48.6 ^{1/2}	46.2 ^{1/2}	46.1 ^{1/2}	<0.8
	04:40-04:45 HOUR	49.0 ^{1/2}	48.6 ^{1/2}	41.4 ^{1/2}	46.1 ^{1/2}	<0.8
	04:45-04:50 HOUR	48.6 ^{1/2}	48.5 ^{1/2}	35.2 ^{1/2}	45.3 ^{1/2}	<0.8
	04:50-04:55 HOUR	50.3 ^{1/2}	48.5 ^{1/2}	48.6 ^{1/2}	45.3 ^{1/2}	3.3
	04:55-05:00 HOUR	50.3 ^{1/2}	48.5 ^{1/2}	48.6 ^{1/2}	45.3 ^{1/2}	3.3
	05:00-05:05 HOUR	52.4 ^{1/2}	48.6 ^{1/2}	53.1 ^{1/2}	46.2 ^{1/2}	6.9
	05:05-05:10 HOUR	50.5 ^{1/2}	48.6 ^{1/2}	49.0 ^{1/2}	46.2 ^{1/2}	2.8
	05:10-05:15 HOUR	50.3 ^{1/2}	48.6 ^{1/2}	48.4 ^{1/2}	46.7 ^{1/2}	2.2
	05:15-05:20 HOUR	51.3 ^{1/2}	49.2 ^{1/2}	50.1 ^{1/2}	46.7 ^{1/2}	3.4
	05:20-05:25 HOUR	50.4 ^{1/2}	49.2 ^{1/2}	47.2 ^{1/2}	46.7 ^{1/2}	<0.8
	05:25-05:30 HOUR	50.0 ^{1/2}	49.2 ^{1/2}	45.3 ^{1/2}	46.7 ^{1/2}	<0.8
	05:30-05:35 HOUR	49.9 ^{1/2}	50.0 ^{1/2}	<0.8 ^{1/2}	47.1 ^{1/2}	<0.8
	05:35-05:40 HOUR	52.4 ^{1/2}	50.0 ^{1/2}	51.7 ^{1/2}	47.1 ^{1/2}	4.6
	05:40-05:45 HOUR	51.2 ^{1/2}	50.0 ^{1/2}	48.0 ^{1/2}	47.1 ^{1/2}	0.9
	05:45-05:50 HOUR	51.4 ^{1/2}	49.8 ^{1/2}	49.3 ^{1/2}	47.8 ^{1/2}	1.5
	05:50-05:55 HOUR	50.6 ^{1/2}	49.8 ^{1/2}	45.9 ^{1/2}	47.8 ^{1/2}	<0.8
	05:55-06:00 HOUR	50.7 ^{1/2}	49.8 ^{1/2}	46.4 ^{1/2}	47.8 ^{1/2}	<0.8

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 27, 2023 TZ3AT318-0004	NIGHT TIME ^{2/}					
	03:50-03:55 HOUR	53.7 ^{2/}	50.7 ^{***}	53.7 ^{2/}	49.0 ^{***}	4.7
	03:55-04:00 HOUR	52.4 ^{2/}	50.7 ^{***}	50.5 ^{2/}	49.0 ^{***}	1.5
	04:00-04:05 HOUR	54.1 ^{2/}	51.6 ^{***}	53.5 ^{2/}	49.2 ^{***}	4.3
	04:05-04:10 HOUR	53.1 ^{2/}	51.6 ^{***}	50.8 ^{2/}	49.2 ^{***}	1.6
	04:10-04:15 HOUR	53.9 ^{2/}	51.6 ^{***}	53.0 ^{2/}	49.2 ^{***}	3.8
	04:15-04:20 HOUR	53.7 ^{2/}	52.2 ^{***}	51.4 ^{2/}	49.6 ^{***}	1.8
	04:20-04:25 HOUR	54.2 ^{2/}	52.2 ^{***}	52.9 ^{2/}	49.6 ^{***}	3.3
	04:25-04:30 HOUR	54.4 ^{2/}	52.2 ^{***}	53.4 ^{2/}	49.6 ^{***}	3.8
	04:30-04:35 HOUR	54.1 ^{2/}	53.6 ^{***}	47.5 ^{2/}	50.8 ^{***}	<0.8
	04:35-04:40 HOUR	54.5 ^{2/}	53.6 ^{***}	50.2 ^{2/}	50.8 ^{***}	<0.8
	04:40-04:45 HOUR	58.2 ^{2/}	53.6 ^{***}	55.4 ^{2/}	50.8 ^{***}	8.6
	04:45-04:50 HOUR	54.9 ^{2/}	51.3 ^{***}	53.2 ^{2/}	49.1 ^{***}	4.1
	04:50-04:55 HOUR	53.8 ^{2/}	51.3 ^{***}	49.1 ^{2/}	49.1 ^{***}	2.0
	04:55-05:00 HOUR	53.0 ^{2/}	51.3 ^{***}	49.1 ^{2/}	49.1 ^{***}	2.0
	05:00-05:05 HOUR	54.5 ^{2/}	53.0 ^{***}	52.2 ^{2/}	50.3 ^{***}	1.9
	05:05-05:10 HOUR	54.6 ^{2/}	53.0 ^{***}	52.5 ^{2/}	50.3 ^{***}	2.2
	05:10-05:15 HOUR	55.2 ^{2/}	53.0 ^{***}	54.2 ^{2/}	50.3 ^{***}	3.9
	05:15-05:20 HOUR	54.1 ^{2/}	52.5 ^{***}	52.0 ^{2/}	49.4 ^{***}	2.6
	05:20-05:25 HOUR	53.0 ^{2/}	52.5 ^{***}	46.4 ^{2/}	49.4 ^{***}	<0.8
	05:25-05:30 HOUR	55.4 ^{2/}	52.5 ^{***}	55.3 ^{2/}	49.4 ^{***}	5.9
	05:30-05:35 HOUR	55.7 ^{2/}	53.2 ^{***}	55.1 ^{2/}	48.2 ^{***}	6.9
	05:35-05:40 HOUR	51.4 ^{2/}	<0.8 ^{2/}	48.2 ^{2/}	48.2 ^{***}	<0.8
	05:40-05:45 HOUR	56.2 ^{2/}	53.2 ^{***}	56.2 ^{2/}	48.2 ^{***}	8.0
	05:45-05:50 HOUR	52.7 ^{2/}	51.8 ^{***}	48.4 ^{2/}	46.8 ^{***}	1.6
	05:50-05:55 HOUR	52.6 ^{2/}	51.8 ^{***}	47.9 ^{2/}	46.8 ^{***}	1.1
	05:55-06:00 HOUR	53.7 ^{2/}	51.8 ^{***}	52.2 ^{2/}	46.8 ^{***}	5.4
SEPTEMBER 27, 2023 TZ3AT318-0005	DAY TIME ^{3/}					
	06:00-07:00 HOUR	60.0 ^{2/}	55.9 ^{**}	57.9 ^{2/}	50.1 ^{**}	7.8
	DAY TIME ^{4/}					
	07:00-08:00 HOUR	64.1 ^{2/}	62.1 ^{**}	59.8 ^{2/}	53.5 ^{**}	6.3
	08:00-09:00 HOUR	61.9 ^{2/}	61.3 ^{**}	53.0 ^{2/}	48.9 ^{**}	4.1
	09:00-10:00 HOUR	65.3 ^{2/}	63.9 ^{**}	59.7 ^{2/}	51.2 ^{**}	8.5
	10:00-11:00 HOUR	60.9 ^{2/}	59.9 ^{**}	54.0 ^{2/}	48.8 ^{**}	5.2
	11:00-12:00 HOUR	56.6 ^{2/}	52.5 ^{**}	54.5 ^{2/}	47.6 ^{**}	6.9
	12:00-13:00 HOUR	56.3 ^{2/}	53.1 ^{**}	53.5 ^{2/}	51.5 ^{**}	2.0
	13:00-14:00 HOUR	57.7 ^{2/}	54.0 ^{**}	55.3 ^{2/}	53.2 ^{**}	2.1
	14:00-15:00 HOUR	53.9 ^{2/}	49.9 ^{**}	51.7 ^{2/}	48.9 ^{**}	2.8
	15:00-16:00 HOUR	53.3 ^{2/}	50.5 ^{**}	50.1 ^{2/}	49.6 ^{**}	<0.8
	16:00-17:00 HOUR	51.2 ^{2/}	47.9 ^{**}	48.5 ^{2/}	46.6 ^{**}	1.9
	17:00-18:00 HOUR	51.4 ^{2/}	45.4 ^{**}	50.1 ^{2/}	43.2 ^{**}	6.9
	18:00-19:00 HOUR	48.7 ^{2/}	45.5 ^{**}	45.9 ^{2/}	43.3 ^{**}	2.6
	19:00-20:00 HOUR	50.6 ^{2/}	45.9 ^{**}	48.8 ^{2/}	43.0 ^{**}	5.8
	20:00-21:00 HOUR	57.4 ^{2/}	54.8 ^{**}	53.9 ^{2/}	45.3 ^{**}	8.6
	21:00-22:00 HOUR	60.0 ^{2/}	57.5 ^{**}	56.4 ^{2/}	49.8 ^{**}	6.6
	NIGHT TIME ^{2/}					

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2023-U085590

11/14

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 27, 2023 TZ3AT318-0004	NIGHT TIME ^{2/}					
	00:10-00:15 HOUR	53.9 ^{2/}	52.3 ^{***}	51.8 ^{2/}	51.2 ^{***}	<0.8
	00:15-00:20 HOUR	54.0 ^{2/}	52.6 ^{***}	51.4 ^{2/}	51.5 ^{***}	<0.8
	00:20-00:25 HOUR	53.6 ^{2/}	52.6 ^{***}	49.7 ^{2/}	51.5 ^{***}	<0.8
	00:25-00:30 HOUR	53.3 ^{2/}	52.6 ^{***}	48.0 ^{2/}	51.5 ^{***}	<0.8
	00:30-00:35 HOUR	53.4 ^{2/}	51.9 ^{***}	51.1 ^{2/}	50.7 ^{***}	<0.8
	00:35-00:40 HOUR	53.5 ^{2/}	51.9 ^{***}	51.4 ^{2/}	50.7 ^{***}	<0.8
	00:40-00:45 HOUR	53.1 ^{2/}	51.9 ^{***}	49.9 ^{2/}	50.7 ^{***}	<0.8
	00:45-00:50 HOUR	55.7 ^{2/}	52.3 ^{***}	56.0 ^{2/}	51.2 ^{***}	4.8
	00:50-00:55 HOUR	53.8 ^{2/}	52.3 ^{***}	51.5 ^{2/}	51.2 ^{***}	<0.8
	00:55-01:00 HOUR	53.7 ^{2/}	52.3 ^{***}	51.1 ^{2/}	51.2 ^{***}	<0.8
	01:00-01:05 HOUR	54.3 ^{2/}	52.2 ^{***}	53.1 ^{2/}	50.9 ^{***}	2.2
	01:05-01:10 HOUR	53.9 ^{2/}	52.2 ^{***}	52.0 ^{2/}	50.9 ^{***}	1.1
	01:10-01:15 HOUR	53.1 ^{2/}	52.2 ^{***}	48.8 ^{2/}	50.9 ^{***}	<0.8
	01:15-01:20 HOUR	53.0 ^{2/}	51.9 ^{***}	49.5 ^{2/}	50.6 ^{***}	<0.8
	01:20-01:25 HOUR	53.8 ^{2/}	51.9 ^{***}	52.3 ^{2/}	50.6 ^{***}	1.7
	01:25-01:30 HOUR	54.2 ^{2/}	51.9 ^{***}	53.3 ^{2/}	50.6 ^{***}	2.7
	01:30-01:35 HOUR	54.1 ^{2/}	52.3 ^{***}	52.4 ^{2/}	51.3 ^{***}	1.1
	01:35-01:40 HOUR	53.8 ^{2/}	52.3 ^{***}	51.5 ^{2/}	51.3 ^{***}	<0.8
	01:40-01:45 HOUR	53.1 ^{2/}	52.3 ^{***}	48.4 ^{2/}	51.3 ^{***}	<0.8
	01:45-01:50 HOUR	53.3 ^{2/}	52.9 ^{***}	45.7 ^{2/}	51.6 ^{***}	<0.8
	01:50-01:55 HOUR	54.2 ^{2/}	52.9 ^{***}	51.3 ^{2/}	51.6 ^{***}	<0.8
	01:55-02:00 HOUR	53.6 ^{2/}	52.9 ^{***}	48.3 ^{2/}	51.6 ^{***}	<0.8
SEPTEMBER 27, 2023 TZ3AT318-0005	DAY TIME ^{3/}					
	02:00-02:05 HOUR	54.1 ^{2/}	51.8 ^{***}	53.2 ^{2/}	50.7 ^{***}	2.5
	02:05-02:10 HOUR	54.1 ^{2/}	51.8 ^{***}	53.2 ^{2/}	50.7 ^{***}	2.5
	02:10-02:15 HOUR	53.7 ^{2/}	51.8 ^{***}	52.2 ^{2/}	50.7 ^{***}	1.5
	02:15-02:20 HOUR	53.7 ^{2/}	52.8 ^{***}	49.4 ^{2/}	51.2 ^{***}	<0.8
	02:20-02:25 HOUR	54.6 ^{2/}	52.8 ^{***}	52.9 ^{2/}	51.2 ^{***}	1.7
	02:25-02:30 HOUR	54.1 ^{2/}	52.8 ^{***}	51.2 ^{2/}	51.2 ^{***}	<0.8
	02:30-02:35 HOUR	55.8 ^{2/}	52.2 ^{***}	56.3 ^{2/}	50.4 ^{***}	5.9
	02:35-02:40 HOUR	53.3 ^{2/}	52.2 ^{***}	49.8 ^{2/}	50.4 ^{***}	<0.8
	02:40-02:45 HOUR	53.3 ^{2/}	52.2 ^{***}	49.8 ^{2/}	50.4 ^{***}	<0.8
	02:45-02:50 HOUR	56.2 ^{2/}	51.8 ^{***}	57.2 ^{2/}	49.9 ^{***}	7.3
	02:50-02:55 HOUR	55.2 ^{2/}	51.8 ^{***}	55.5 ^{2/}	49.9 ^{***}	5.6
	02:55-03:00 HOUR	53.4 ^{2/}	51.8 ^{***}	51.3 ^{2/}	49.9 ^{***}	1.4
	03:00-03:05 HOUR	55.1 ^{2/}	52.7 ^{***}	54.4 ^{2/}	51.4 ^{***}	3.0
	03:05-03:10 HOUR	53.0 ^{2/}	52.7 ^{***}	47.4 ^{2/}	51.4 ^{***}	<0.8
	03:10-03:15 HOUR	53.3 ^{2/}	52.7 ^{***}	44.2 ^{2/}	51.4 ^{***}	<0.8
	03:15-03:20 HOUR	53.3 ^{2/}	50.3 ^{***}	53.3 ^{2/}	49.2 ^{***}	4.1
	03:20-03:25 HOUR	52.9 ^{2/}	50.3 ^{***}	52.9 ^{2/}	49.2 ^{***}	3.2
	03:25-03:30 HOUR	52.7 ^{2/}	50.3 ^{***}	52.0 ^{2/}	49.2 ^{***}	2.8
	03:30-03:35 HOUR	52.5 ^{2/}	51.8 ^{***}	47.2 ^{2/}	50.5 ^{***}	<0.8
	03:35-03:40 HOUR	52.0 ^{2/}	51.8 ^{***}	41.5 ^{2/}	50.5 ^{***}	<0.8
	03:40-03:45 HOUR	54.0 ^{2/}	51.8 ^{***}	53.0 ^{2/}	50.5 ^{***}	2.5
	03:45-03:50 HOUR	55.7 ^{2/}	50.7 ^{***}	57.0 ^{2/}	49.0 ^{***}	8.0

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

10/14

2023-U085590

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 28, 2023 T23AT318-0005	NIGHT TIME 2/					
	01:40-01:45 HOUR	48.4 ^{2/}	47.0 ***	45.8 ^{2/}	44.4 ***	1.4
	01:45-01:50 HOUR	50.9 ^{2/}	50.7 ***	40.4 ^{2/}	45.9 ***	<0.8
	01:50-01:55 HOUR	53.3 ^{2/}	50.7 ***	52.8 ^{2/}	45.9 ***	6.9
	01:55-02:00 HOUR	50.8 ^{2/}	50.7 ***	37.4 ^{2/}	45.9 ***	<0.8
	02:00-02:05 HOUR	53.1 ^{2/}	52.5 ***	47.2 ^{2/}	45.8 ***	1.4
	02:05-02:10 HOUR	52.6 ^{2/}	52.5 ***	39.2 ^{2/}	45.8 ***	<0.8
	02:10-02:15 HOUR	53.0 ^{2/}	52.5 ***	46.4 ^{2/}	45.8 ***	<0.8
	02:15-02:20 HOUR	53.8 ^{2/}	51.8 ***	52.5 ^{2/}	50.4 ***	2.1
	02:20-02:25 HOUR	54.4 ^{2/}	51.8 ***	53.9 ^{2/}	50.4 ***	3.5
	02:25-02:30 HOUR	48.7 ^{2/}	51.8 ***	48.7 ^{2/}	50.4 ***	<0.8
	02:30-02:35 HOUR	48.6 ^{2/}	48.2 ***	41.0 ^{2/}	45.5 ***	<0.8
	02:35-02:40 HOUR	48.7 ^{2/}	48.2 ***	42.1 ^{2/}	45.5 ***	<0.8
	02:40-02:45 HOUR	50.1 ^{2/}	48.2 ***	48.6 ^{2/}	45.5 ***	3.1
	02:45-02:50 HOUR	51.7 ^{2/}	51.3 ***	44.1 ^{2/}	47.3 ***	<0.8
	02:50-02:55 HOUR	53.4 ^{2/}	51.3 ***	52.2 ^{2/}	47.3 ***	4.9
	02:55-03:00 HOUR	50.5 ^{2/}	51.3 ***	<0.8 ^{2/}	47.3 ***	<0.8
	03:00-03:05 HOUR	50.8 ^{2/}	49.8 ***	46.9 ^{2/}	47.2 ***	<0.8
	03:05-03:10 HOUR	49.9 ^{2/}	49.8 ***	36.5 ^{2/}	47.2 ***	<0.8
	03:10-03:15 HOUR	50.8 ^{2/}	49.8 ***	46.9 ^{2/}	47.2 ***	<0.8
	03:15-03:20 HOUR	51.3 ^{2/}	52.9 ***	<0.8	48.8 ***	<0.8
	03:20-03:25 HOUR	52.0 ^{2/}	52.9 ***	<0.8 ^{2/}	48.8 ***	<0.8
	03:25-03:30 HOUR	54.1 ^{2/}	52.9 ***	50.9 ^{2/}	48.8 ***	2.1
	03:30-03:35 HOUR	54.5 ^{2/}	51.3 ***	47.3 ^{2/}	47.3 ***	7.2
	03:35-03:40 HOUR	54.1 ^{2/}	51.3 ***	53.9 ^{2/}	47.3 ***	6.6
	03:40-03:45 HOUR	53.6 ^{2/}	51.3 ***	52.7 ^{2/}	47.3 ***	5.4
	03:45-03:50 HOUR	54.2 ^{2/}	51.8 ***	53.5 ^{2/}	49.0 ***	4.5
	03:50-03:55 HOUR	54.9 ^{2/}	51.8 ***	55.0 ^{2/}	49.0 ***	6.0
	03:55-04:00 HOUR	52.5 ^{2/}	51.8 ***	47.2 ^{2/}	50.2 ***	<0.8
	04:00-04:05 HOUR	52.9 ^{2/}	53.3 ***	<0.8 ^{2/}	50.2 ***	<0.8
	04:05-04:10 HOUR	52.9 ^{2/}	53.3 ***	50.2 ***	50.2 ***	7.9
	04:10-04:15 HOUR	57.3 ^{2/}	53.3 ***	58.1 ^{2/}	50.2 ***	7.9
	04:15-04:20 HOUR	54.6 ^{2/}	54.4 ***	44.1 ^{2/}	51.8 ***	<0.8
	04:20-04:25 HOUR	54.5 ^{2/}	54.4 ***	41.1 ^{2/}	51.8 ***	<0.8
	04:25-04:30 HOUR	54.8 ^{2/}	54.4 ***	47.2 ^{2/}	51.8 ***	<0.8
	04:30-04:35 HOUR	55.8 ^{2/}	52.2 ***	56.3 ^{2/}	49.7 ***	6.6
	04:35-04:40 HOUR	56.7 ^{2/}	52.2 ***	56.7 ^{2/}	49.7 ***	7.0
	04:40-04:45 HOUR	53.1 ^{2/}	52.2 ***	48.8 ^{2/}	49.7 ***	<0.8
	04:45-04:50 HOUR	53.8 ^{2/}	52.2 ***	51.7 ^{2/}	49.3 ***	2.4
	04:50-04:55 HOUR	53.3 ^{2/}	52.2 ***	49.8 ^{2/}	49.3 ***	<0.8
	04:55-05:00 HOUR	56.0 ^{2/}	52.2 ***	56.7 ^{2/}	49.3 ***	7.4
	05:00-05:05 HOUR	55.3 ^{2/}	52.2 ***	55.4 ^{2/}	49.3 ***	6.1
	05:05-05:10 HOUR	56.7 ^{2/}	52.2 ***	57.8 ^{2/}	49.3 ***	8.5
	05:10-05:15 HOUR	53.1 ^{2/}	52.2 ***	48.8 ^{2/}	49.3 ***	<0.8
	05:15-05:20 HOUR	53.6 ^{2/}	53.9 ***	<0.8 ^{2/}	49.9 ***	<0.8

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO., LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2023-U085590

13/14

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 27, 2023 T23AT318-0005	NIGHT TIME 2/					
	22:00-22:05 HOUR	54.6 ^{2/}	54.4 ***	44.1 ^{2/}	52.0 ***	<0.8
	22:05-22:10 HOUR	54.5 ^{2/}	54.4 ***	41.1 ^{2/}	52.0 ***	<0.8
	22:10-22:15 HOUR	56.3 ^{2/}	54.4 ***	54.8 ^{2/}	52.0 ***	2.8
	22:15-22:20 HOUR	55.8 ^{2/}	52.9 ***	55.7 ^{2/}	51.1 ***	4.6
	22:20-22:25 HOUR	54.3 ^{2/}	52.9 ***	51.7 ^{2/}	51.1 ***	<0.8
	22:25-22:30 HOUR	53.4 ^{2/}	52.9 ***	46.8 ^{2/}	51.1 ***	<0.8
	22:30-22:35 HOUR	53.1 ^{2/}	53.2 ***	<0.8 ^{2/}	51.4 ***	<0.8
	22:35-22:40 HOUR	54.3 ^{2/}	53.2 ***	50.8 ^{2/}	51.4 ***	<0.8
	22:40-22:45 HOUR	53.9 ^{2/}	53.2 ***	48.6 ^{2/}	51.4 ***	<0.8
	22:45-22:50 HOUR	53.5 ^{2/}	52.6 ***	49.2 ^{2/}	49.7 ***	<0.8
	22:50-22:55 HOUR	54.9 ^{2/}	52.6 ***	54.0 ^{2/}	49.7 ***	4.3
	22:55-23:00 HOUR	53.5 ^{2/}	52.6 ***	49.2 ^{2/}	49.7 ***	<0.8
	23:00-23:05 HOUR	54.2 ^{2/}	53.1 ***	50.7 ^{2/}	50.3 ***	<0.8
	23:05-23:10 HOUR	53.8 ^{2/}	53.1 ***	48.5 ^{2/}	50.3 ***	<0.8
	23:10-23:15 HOUR	56.7 ^{2/}	53.1 ***	57.2 ^{2/}	50.3 ***	6.9
	23:15-23:20 HOUR	53.0 ^{2/}	51.4 ***	50.9 ^{2/}	48.7 ***	2.2
	23:20-23:25 HOUR	52.9 ^{2/}	51.4 ***	50.6 ^{2/}	48.7 ***	1.9
	23:25-23:30 HOUR	52.1 ^{2/}	51.4 ***	46.8 ^{2/}	48.7 ***	<0.8
	23:30-23:35 HOUR	53.2 ^{2/}	50.1 ***	53.3 ^{2/}	48.1 ***	5.2
	23:35-23:40 HOUR	52.1 ^{2/}	50.1 ***	50.8 ^{2/}	48.1 ***	2.7
	23:40-23:45 HOUR	51.5 ^{2/}	50.1 ***	48.9 ^{2/}	48.1 ***	0.8
	23:45-23:50 HOUR	51.4 ^{2/}	49.4 ***	50.1 ^{2/}	47.3 ***	2.8
	23:50-23:55 HOUR	51.6 ^{2/}	49.4 ***	50.6 ^{2/}	47.3 ***	3.3
	23:55-00:00 HOUR	51.4 ^{2/}	49.4 ***	50.1 ^{2/}	47.3 ***	2.8
SEPTEMBER 28, 2023 T23AT318-0005	NIGHT TIME 2/					
	00:00-00:05 HOUR	52.5 ^{2/}	49.7 ***	52.3 ^{2/}	47.9 ***	4.4
	00:05-00:10 HOUR	51.0 ^{2/}	49.7 ***	48.1 ^{2/}	47.9 ***	<0.8
	00:10-00:15 HOUR	50.0 ^{2/}	49.7 ***	41.2 ^{2/}	47.9 ***	<0.8
	00:15-00:20 HOUR	51.2 ^{2/}	49.0 ***	50.2 ^{2/}	47.2 ***	3.0
	00:20-00:25 HOUR	50.9 ^{2/}	49.0 ***	49.4 ^{2/}	47.2 ***	2.2
	00:25-00:30 HOUR	50.9 ^{2/}	49.0 ***	49.4 ^{2/}	47.2 ***	2.2
	00:30-00:35 HOUR	51.6 ^{2/}	51.4 ***	41.1 ^{2/}	47.1 ***	<0.8
	00:35-00:40 HOUR	55.0 ^{2/}	51.4 ***	55.5 ^{2/}	47.1 ***	8.4
	00:40-00:45 HOUR	51.3 ^{2/}	51.4 ***	<0.8 ^{2/}	47.1 ***	<0.8
	00:45-00:50 HOUR	52.6 ^{2/}	49.8 ***	52.4 ^{2/}	48.0 ***	4.4
	00:50-00:55 HOUR	53.2 ^{2/}	49.8 ***	53.5 ^{2/}	48.0 ***	5.5
	00:55-01:00 HOUR	51.2 ^{2/}	49.8 ***	48.6 ^{2/}	48.0 ***	<0.8
	01:00-01:05 HOUR	51.4 ^{2/}	49.3 ***	50.2 ^{2/}	47.5 ***	2.7
	01:05-01:10 HOUR	51.3 ^{2/}	49.3 ***	50.0 ^{2/}	47.5 ***	2.5
	01:10-01:15 HOUR	49.8 ^{2/}	49.3 ***	43.2 ^{2/}	47.5 ***	<0.8
	01:15-01:20 HOUR	51.2 ^{2/}	48.5 ***	50.9 ^{2/}	46.2 ***	4.7
	01:20-01:25 HOUR	50.9 ^{2/}	48.5 ***	50.2 ^{2/}	46.2 ***	4.0
	01:25-01:30 HOUR	50.9 ^{2/}	48.5 ***	50.2 ^{2/}	46.2 ***	4.0
	01:30-01:35 HOUR	48.9 ^{2/}	47.0 ***	47.4 ^{2/}	44.4 ***	3.0
	01:35-01:40 HOUR	48.6 ^{2/}	47.0 ***	46.5 ^{2/}	44.4 ***	2.1

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO., LTD.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2023-U085590

12/14

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเรือสินค้า รถบรรทุก และ รถยนต์ ท่าเรือ รังสิต
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : โทรศัพท์ 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
MEASURING PLACE : ท่าเรือท่าเรือสินค้าท่าเรือ รังสิต
MEASURING TYPE : AMBIENT (NOYANCE) SOUND LEVEL
MEASURING DATE : SEPTEMBER 23-28, 2023
MEASURING TIME : *
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER AND CALCULATION
MEASURED BY : MR SIRIPAT JONGPHADUNGKIEET
ANALYSIS NO. : T23AT318-0006 - T23AT318-0010
RECEIVED DATE : SEPTEMBER 23-28, 2023
ANALYTICAL DATE : SEPTEMBER 23-28, 2023
REPORT NO. : 2023-U085591
WORK NO. : 2022-008114

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 23, 2023 T23AT318-0006	DAY TIME 1/					
	07:00-08:00 HOUR	51.1 1/	48.3 **	47.9 1/	40.4 **	7.5
	08:00-09:00 HOUR	49.9 1/	46.4 **	47.3 1/	38.8 **	8.5
	09:00-10:00 HOUR	51.5 1/	50.9 **	42.6 1/	40.5 **	2.1
	10:00-11:00 HOUR	48.6 1/	46.5 **	44.4 1/	38.3 **	6.1
	11:00-12:00 HOUR	47.5 1/	42.4 **	45.9 1/	37.5 **	8.4
	12:00-13:00 HOUR	48.6 1/	44.9 **	46.2 1/	37.7 **	8.5
	13:00-14:00 HOUR	49.6 1/	45.7 **	47.3 1/	39.3 **	8.0
	14:00-15:00 HOUR	49.1 1/	45.4 **	46.7 1/	39.8 **	6.9
	15:00-16:00 HOUR	53.8 1/	49.7 **	51.7 1/	45.2 **	6.5
	16:00-17:00 HOUR	53.3 1/	51.6 **	48.4 1/	42.6 **	5.8
	17:00-18:00 HOUR	48.5 1/	44.2 **	46.5 1/	37.9 **	8.6
	18:00-19:00 HOUR	48.6 1/	43.3 **	47.1 1/	39.7 **	7.4
	19:00-20:00 HOUR	41.2 1/	38.0 **	38.4 1/	35.7 **	2.7
	20:00-21:00 HOUR	44.9 1/	39.0 **	43.6 1/	37.7 **	5.9
	21:00-22:00 HOUR	40.9 1/	38.0 **	37.8 1/	36.1 **	1.7
NIGHT TIME 2/						
	22:00-22:05 HOUR	40.8 1/	38.9 **	39.3 1/	36.6 **	2.7
	22:05-22:10 HOUR	40.8 1/	38.9 **	39.3 1/	36.6 **	2.7
	22:10-22:15 HOUR	43.2 1/	38.9 **	44.2 1/	36.6 **	7.6
	22:15-22:20 HOUR	40.2 1/	37.6 **	39.7 1/	35.8 **	3.9
	22:20-22:25 HOUR	40.5 1/	37.6 **	40.4 1/	35.8 **	4.6
	22:25-22:30 HOUR	39.5 1/	37.6 **	38.0 1/	35.8 **	2.2
	22:30-22:35 HOUR	40.1 1/	38.6 **	37.8 1/	36.2 **	1.6
	22:35-22:40 HOUR	41.2 1/	38.6 **	40.7 1/	36.2 **	4.5
	22:40-22:45 HOUR	39.5 1/	38.6 **	35.2 1/	36.2 **	<0.8
	22:45-22:50 HOUR	43.4 1/	41.3 **	42.2 1/	36.7 **	5.5
	22:50-22:55 HOUR	42.5 1/	41.3 **	39.3 1/	36.7 **	2.6
	22:55-23:00 HOUR	39.9 1/	41.3 **	<0.8 1/	36.7 **	<0.8
	23:00-23:05 HOUR	42.2 1/	40.0 **	41.2 1/	36.4 **	4.8
	23:05-23:10 HOUR	40.8 1/	40.0 **	36.1 1/	36.4 **	<0.8
	23:10-23:15 HOUR	40.4 1/	40.0 **	32.8 1/	36.4 **	<0.8
	23:15-23:20 HOUR	41.3 1/	40.5 **	36.6 1/	36.6 **	<0.8

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

RESULT (dB(A))

DATE	TIME*	ผลการทดสอบเบื้องต้นรายการ				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 28, 2023 T23AT318-0005	NIGHT TIME 2/					
	05:20-05:25 HOUR	54.8 1/	53.9 ***	50.5 1/	49.9 ***	<0.8
	05:25-05:30 HOUR	54.1 1/	53.9 ***	43.6 1/	49.9 ***	<0.8
	05:30-05:35 HOUR	54.8 1/	54.3 ***	48.2 1/	49.8 ***	<0.8
	05:35-05:40 HOUR	57.4 1/	54.3 ***	57.5 1/	49.8 ***	7.7
	05:40-05:45 HOUR	56.2 1/	54.3 ***	54.7 1/	49.8 ***	4.9
	05:45-05:50 HOUR	51.6 1/	50.9 ***	46.3 1/	47.0 ***	<0.8
	05:50-05:55 HOUR	51.0 1/	50.9 ***	37.6 1/	47.0 ***	<0.8
	DAY TIME 1/					
	05:55-06:00 HOUR	53.8 1/	50.9 ***	53.7 1/	47.0 ***	6.7
	06:00-07:00 HOUR	53.5 1/	51.3 **	49.5 1/	48.4 **	1.1

REMARK : 1/ CASE 1 CALCULATION (DURING 06:00 TO 22:00 HOUR) : SPECIFIC SOUND LEVEL CONTINUOUSLY OCCUR AT LEAST 1 HOUR, MEASURING AS L_{Aeq} 1 hour
2/ CASE 4 CALCULATION (DURING 22:00 TO 06:00 HOUR) : SPECIFIC SOUND LEVEL OCCUR IN RESTFUL AREA OR NIGHT TIME, MEASURING AS L_{Aeq} 5 minutes.
** PERCENTILE LEVEL 90 (L₉₀) IS THE MIDDLE VALUE OF 11 TIMES MEASURING, (55 MINUTES MEASURING DURING 06:00 TO 22:00 HOUR)
*** AND RESIDUAL SOUND LEVEL (L_{Aeq} 5 minutes) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.
(15 MINUTES MEASURING DURING 22:00 TO 06:00 HOUR)
AND RESIDUAL SOUND LEVEL (L_{Aeq} 5 minutes) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.

hid 78

(MR SILA BANDONGJAIKUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

- End of Analysis Report -

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 24, 2023 T23AT318-0006	NIGHT TIME ^{2/}					
	03:00-03:05 HOUR	50.3 ^{2/}	49.7 ***	44.4 ^{2/}	40.9 ***	3.5
	03:05-03:10 HOUR	50.5 ^{2/}	49.7 ***	45.8 ^{2/}	40.9 ***	4.9
	03:10-03:15 HOUR	47.4 ^{2/}	49.7 ***	<0.8 ^{2/}	40.9 ***	<0.8
	03:15-03:20 HOUR	46.7 ^{2/}	48.8 ***	<0.8 ^{2/}	41.4 ***	<0.8
	03:20-03:25 HOUR	51.0 ^{2/}	48.8 ***	50.0 ^{2/}	41.4 ***	8.6
	03:25-03:30 HOUR	51.1 ^{2/}	48.8 ***	50.2 ^{2/}	41.4 ***	8.8
	03:30-03:35 HOUR	49.4 ^{2/}	47.8 ***	47.3 ^{2/}	41.5 ***	5.8
	03:35-03:40 HOUR	48.9 ^{2/}	47.8 ***	45.4 ^{2/}	41.5 ***	3.9
	03:40-03:45 HOUR	49.7 ^{2/}	47.8 ***	48.2 ^{2/}	41.5 ***	6.7
	03:45-03:50 HOUR	49.5 ^{2/}	49.1 ***	41.9 ^{2/}	39.9 ***	2.0
	03:50-03:55 HOUR	50.4 ^{2/}	49.1 ***	47.5 ^{2/}	39.9 ***	7.6
	03:55-04:00 HOUR	49.3 ^{2/}	49.1 ***	38.8 ^{2/}	39.9 ***	<0.8
	04:00-04:05 HOUR	47.4 ^{2/}	47.3 ***	34.0 ^{2/}	45.2 ***	<0.8
	04:05-04:10 HOUR	49.7 ^{2/}	47.3 ***	49.0 ^{2/}	45.2 ***	3.8
	04:10-04:15 HOUR	49.9 ^{2/}	47.3 ***	49.4 ^{2/}	45.2 ***	4.2
SEPTEMBER 24, 2023 T23AT318-0006	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	41.0 ^{2/}	41.9 ***	<0.8 ^{2/}	36.9 ***	<0.8
	00:05-00:10 HOUR	42.2 ^{2/}	41.9 ***	33.4 ^{2/}	36.9 ***	<0.8
	00:10-00:15 HOUR	40.3 ^{2/}	41.9 ***	<0.8 ^{2/}	36.9 ***	<0.8
	00:15-00:20 HOUR	44.9 ^{2/}	43.1 ***	43.2 ^{2/}	37.4 ***	5.8
	00:20-00:25 HOUR	43.8 ^{2/}	43.1 ***	38.5 ^{2/}	37.4 ***	1.1
	00:25-00:30 HOUR	43.0 ^{2/}	43.1 ***	<0.8 ^{2/}	37.4 ***	<0.8
	00:30-00:35 HOUR	41.1 ^{2/}	44.6 ***	<0.8 ^{2/}	37.7 ***	<0.8
	00:35-00:40 HOUR	45.5 ^{2/}	44.6 ***	41.2 ^{2/}	37.7 ***	3.5
	00:40-00:45 HOUR	44.2 ^{2/}	44.6 ***	<0.8 ^{2/}	37.7 ***	<0.8
	00:45-00:50 HOUR	45.7 ^{2/}	44.5 ***	42.5 ^{2/}	37.7 ***	4.8
	00:50-00:55 HOUR	46.0 ^{2/}	44.5 ***	43.7 ^{2/}	37.7 ***	6.0
	00:55-01:00 HOUR	42.8 ^{2/}	44.5 ***	<0.8 ^{2/}	37.7 ***	<0.8
	01:00-01:05 HOUR	45.6 ^{2/}	43.3 ***	44.7 ^{2/}	36.6 ***	8.1
	01:05-01:10 HOUR	44.6 ^{2/}	43.3 ***	41.7 ^{2/}	36.6 ***	5.1
	01:10-01:15 HOUR	43.5 ^{2/}	43.3 ***	33.0 ^{2/}	36.6 ***	<0.8
SEPTEMBER 24, 2023 T23AT318-0007	DAY TIME ^{3/}					
	01:15-01:20 HOUR	45.3 ^{2/}	46.4 ***	<0.8 ^{2/}	41.2 ***	<0.8
	01:20-01:25 HOUR	47.5 ^{2/}	46.4 ***	44.0 ^{2/}	41.2 ***	2.8
	01:25-01:30 HOUR	46.6 ^{2/}	46.4 ***	36.1 ^{2/}	41.2 ***	<0.8
	01:30-01:35 HOUR	46.9 ^{2/}	43.3 ***	47.4 ^{2/}	40.3 ***	7.1
	01:35-01:40 HOUR	46.1 ^{2/}	43.3 ***	45.9 ^{2/}	40.3 ***	5.6
	01:40-01:45 HOUR	46.7 ^{2/}	43.3 ***	47.0 ^{2/}	40.3 ***	6.7
	01:45-01:50 HOUR	47.7 ^{2/}	46.2 ***	45.4 ^{2/}	39.6 ***	5.8
	01:50-01:55 HOUR	48.4 ^{2/}	46.2 ***	47.4 ^{2/}	39.6 ***	7.8
	01:55-02:00 HOUR	44.5 ^{2/}	46.2 ***	<0.8 ^{2/}	39.6 ***	<0.8
	02:00-02:05 HOUR	48.2 ^{2/}	47.0 ***	45.0 ^{2/}	37.7 ***	7.7
	02:05-02:10 HOUR	45.8 ^{2/}	47.0 ***	<0.8 ^{2/}	37.3 ***	<0.8
	02:10-02:15 HOUR	48.4 ^{2/}	47.0 ***	45.8 ^{2/}	37.3 ***	8.5
	02:15-02:20 HOUR	48.7 ^{2/}	46.2 ***	48.1 ^{2/}	39.9 ***	8.2
	02:20-02:25 HOUR	48.1 ^{2/}	46.2 ***	46.6 ^{2/}	39.9 ***	6.7
	02:25-02:30 HOUR	48.5 ^{2/}	46.2 ***	47.6 ^{2/}	39.9 ***	7.7
SEPTEMBER 24, 2023 T23AT318-0007	DAY TIME ^{3/}					
	02:30-02:35 HOUR	47.1 ^{2/}	45.4 ***	45.2 ^{2/}	38.8 ***	6.4
	02:35-02:40 HOUR	46.9 ^{2/}	45.4 ***	44.6 ^{2/}	38.8 ***	5.8
	02:40-02:45 HOUR	46.7 ^{2/}	45.4 ***	43.8 ^{2/}	38.8 ***	5.0
	02:45-02:50 HOUR	50.4 ^{2/}	49.0 ***	47.8 ^{2/}	41.6 ***	6.2
	02:50-02:55 HOUR	50.4 ^{2/}	49.0 ***	47.8 ^{2/}	41.6 ***	6.2
	02:55-03:00 HOUR	49.2 ^{2/}	49.0 ***	38.7 ^{2/}	41.6 ***	<0.8
	03:00-03:05 HOUR	47.4 ^{2/}	43.6 **	45.1 ^{2/}	37.1 **	8.0
	03:05-03:10 HOUR	47.9 ^{2/}	43.6 **	45.9 ^{2/}	40.4 **	5.5
	03:10-03:15 HOUR	49.5 ^{2/}	44.6 **	47.8 ^{2/}	39.5 **	8.3
	03:15-03:20 HOUR	54.3 ^{2/}	50.8 **	51.7 ^{2/}	42.9 **	8.8
	03:20-03:25 HOUR	50.4 ^{2/}	44.9 **	49.0 ^{2/}	40.8 **	8.2
	03:25-03:30 HOUR	50.3 ^{2/}	45.0 **	48.8 ^{2/}	41.3 **	7.5
	03:30-03:35 HOUR	48.1 ^{2/}	47.2 **	40.8 ^{2/}	40.1 **	<0.8
	03:35-03:40 HOUR	47.4 ^{2/}	43.6 **	45.1 ^{2/}	37.1 **	8.0
	03:40-03:45 HOUR	47.9 ^{2/}	43.6 **	45.9 ^{2/}	40.4 **	5.5

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 23, 2023 T23AT318-0006	NIGHT TIME ^{2/}					
	23:20-23:25 HOUR	41.9 ^{2/}	40.5 ***	39.3 ^{2/}	36.6 ***	2.7
	23:25-23:30 HOUR	41.7 ^{2/}	40.5 ***	38.5 ^{2/}	36.6 ***	1.9
	23:30-23:35 HOUR	42.1 ^{2/}	40.5 ***	40.0 ^{2/}	37.3 ***	2.7
	23:35-23:40 HOUR	41.8 ^{2/}	40.5 ***	38.9 ^{2/}	37.3 ***	1.6
	23:40-23:45 HOUR	41.2 ^{2/}	40.5 ***	35.9 ^{2/}	37.3 ***	<0.8
	23:45-23:50 HOUR	42.8 ^{2/}	39.1 ***	43.4 ^{2/}	35.6 ***	7.8
	23:50-23:55 HOUR	40.8 ^{2/}	39.1 ***	38.9 ^{2/}	35.6 ***	3.3
	23:55-00:00 HOUR	42.1 ^{2/}	39.1 ***	42.1 ^{2/}	35.6 ***	6.5
	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	41.0 ^{2/}	41.9 ***	<0.8 ^{2/}	36.9 ***	<0.8
	00:05-00:10 HOUR	42.2 ^{2/}	41.9 ***	33.4 ^{2/}	36.9 ***	<0.8
	00:10-00:15 HOUR	40.3 ^{2/}	41.9 ***	<0.8 ^{2/}	36.9 ***	<0.8
	00:15-00:20 HOUR	44.9 ^{2/}	43.1 ***	43.2 ^{2/}	37.4 ***	5.8
	00:20-00:25 HOUR	43.8 ^{2/}	43.1 ***	38.5 ^{2/}	37.4 ***	1.1
	00:25-00:30 HOUR	43.0 ^{2/}	43.1 ***	<0.8 ^{2/}	37.4 ***	<0.8
SEPTEMBER 24, 2023 T23AT318-0006	NIGHT TIME ^{2/}					
	00:30-00:35 HOUR	41.1 ^{2/}	44.6 ***	<0.8 ^{2/}	37.7 ***	<0.8
	00:35-00:40 HOUR	45.5 ^{2/}	44.6 ***	41.2 ^{2/}	37.7 ***	3.5
	00:40-00:45 HOUR	44.2 ^{2/}	44.6 ***	<0.8 ^{2/}	37.7 ***	<0.8
	00:45-00:50 HOUR	45.7 ^{2/}	44.5 ***	42.5 ^{2/}	37.7 ***	4.8
	00:50-00:55 HOUR	46.0 ^{2/}	44.5 ***	43.7 ^{2/}	37.7 ***	6.0
	00:55-01:00 HOUR	42.8 ^{2/}	44.5 ***	<0.8 ^{2/}	37.7 ***	<0.8
	01:00-01:05 HOUR	45.6 ^{2/}	43.3 ***	44.7 ^{2/}	36.6 ***	8.1
	01:05-01:10 HOUR	44.6 ^{2/}	43.3 ***	41.7 ^{2/}	36.6 ***	5.1
	01:10-01:15 HOUR	43.5 ^{2/}	43.3 ***	33.0 ^{2/}	36.6 ***	<0.8
	01:15-01:20 HOUR	45.3 ^{2/}	46.4 ***	<0.8 ^{2/}	41.2 ***	<0.8
	01:20-01:25 HOUR	47.5 ^{2/}	46.4 ***	44.0 ^{2/}	41.2 ***	2.8
	01:25-01:30 HOUR	46.6 ^{2/}	46.4 ***	36.1 ^{2/}	41.2 ***	<0.8
	01:30-01:35 HOUR	46.9 ^{2/}	43.3 ***	47.4 ^{2/}	40.3 ***	7.1
	01:35-01:40 HOUR	46.1 ^{2/}	43.3 ***	45.9 ^{2/}	40.3 ***	5.6
	01:40-01:45 HOUR	46.7 ^{2/}	43.3 ***	47.0 ^{2/}	40.3 ***	6.7
SEPTEMBER 24, 2023 T23AT318-0007	DAY TIME ^{3/}					
	01:45-01:50 HOUR	47.7 ^{2/}	46.2 ***	45.4 ^{2/}	39.6 ***	5.8
	01:50-01:55 HOUR	48.4 ^{2/}	46.2 ***	47.4 ^{2/}	39.6 ***	7.8
	01:55-02:00 HOUR	44.5 ^{2/}	46.2 ***	<0.8 ^{2/}	39.6 ***	<0.8
	02:00-02:05 HOUR	48.2 ^{2/}	47.0 ***	45.0 ^{2/}	37.7 ***	7.7
	02:05-02:10 HOUR	45.8 ^{2/}	47.0 ***	<0.8 ^{2/}	37.3 ***	<0.8
	02:10-02:15 HOUR	48.4 ^{2/}	47.0 ***	45.8 ^{2/}	37.3 ***	8.5
	02:15-02:20 HOUR	48.7 ^{2/}	46.2 ***	48.1 ^{2/}	39.9 ***	8.2
	02:20-02:25 HOUR	48.1 ^{2/}	46.2 ***	46.6 ^{2/}	39.9 ***	6.7
	02:25-02:30 HOUR	48.5 ^{2/}	46.2 ***	47.6 ^{2/}	39.9 ***	7.7
	02:30-02:35 HOUR	47.1 ^{2/}	45.4 ***	45.2 ^{2/}	38.8 ***	6.4
	02:35-02:40 HOUR	46.9 ^{2/}	45.4 ***	44.6 ^{2/}	38.8 ***	5.8
	02:40-02:45 HOUR	46.7 ^{2/}	45.4 ***	43.8 ^{2/}	38.8 ***	5.0
	02:45-02:50 HOUR	50.4 ^{2/}	49.0 ***	47.8 ^{2/}	41.6 ***	6.2
	02:50-02:55 HOUR	50.4 ^{2/}	49.0 ***	47.8 ^{2/}	41.6 ***	6.2
	02:55-03:00 HOUR	49.2 ^{2/}	49.0 ***	38.7 ^{2/}	41.6 ***	<0.8

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 25, 2023 TZSAT318-0007	NIGHT TIME 2/					
	00:50-00:55 HOUR	49.8 ^{1/2}	47.1 ***	49.5 ^{1/2}	48.9 ***	8.6
	00:55-01:00 HOUR	48.7 ^{1/2}	47.1 ***	46.6 ^{1/2}	40.9 ***	5.7
	01:00-01:05 HOUR	44.9 ^{1/2}	43.7 ***	41.7 ^{1/2}	40.6 ***	1.1
	01:05-01:10 HOUR	45.2 ^{1/2}	43.7 ***	42.9 ^{1/2}	40.6 ***	2.3
	01:10-01:15 HOUR	45.3 ^{1/2}	43.7 ***	43.2 ^{1/2}	40.6 ***	2.6
	01:15-01:20 HOUR	48.3 ^{1/2}	46.8 ***	46.0 ^{1/2}	41.9 ***	4.1
	01:20-01:25 HOUR	50.3 ^{1/2}	46.8 ***	50.7 ^{1/2}	41.9 ***	8.8
	01:25-01:30 HOUR	47.9 ^{1/2}	46.8 ***	44.4 ^{1/2}	41.9 ***	2.5
	01:30-01:35 HOUR	49.0 ^{1/2}	47.6 ***	46.4 ^{1/2}	39.8 ***	6.6
	01:35-01:40 HOUR	47.9 ^{1/2}	47.6 ***	39.1 ^{1/2}	39.8 ***	<0.8
	01:40-01:45 HOUR	47.8 ^{1/2}	47.6 ***	37.3 ^{1/2}	39.8 ***	<0.8
	01:45-01:50 HOUR	47.1 ^{1/2}	46.8 ***	41.5 ^{1/2}	39.9 ***	1.6
	01:50-01:55 HOUR	48.6 ^{1/2}	46.8 ***	38.3 ^{1/2}	39.9 ***	<0.8
	01:55-02:00 HOUR	48.9 ^{1/2}	46.8 ***	46.9 ^{1/2}	39.9 ***	7.0
	02:00-02:05 HOUR	48.9 ^{1/2}	46.8 ***	38.4 ^{1/2}	39.8 ***	<0.8
	02:05-02:10 HOUR	47.1 ^{1/2}	48.7 ***	<0.8 ^{1/2}	39.8 ***	<0.8
	02:10-02:15 HOUR	46.9 ^{1/2}	48.7 ***	44.0 ^{1/2}	39.8 ***	<0.8
	02:15-02:20 HOUR	45.5 ^{1/2}	43.6 ***	40.2 ^{1/2}	40.2 ***	3.8
	02:20-02:25 HOUR	46.3 ^{1/2}	43.6 ***	46.0 ^{1/2}	40.2 ***	5.8
	02:25-02:30 HOUR	46.2 ^{1/2}	43.6 ***	45.7 ^{1/2}	40.2 ***	5.5
	02:30-02:35 HOUR	44.4 ^{1/2}	44.3 ***	31.0 ^{1/2}	40.1 ***	<0.8
	02:35-02:40 HOUR	47.1 ^{1/2}	44.3 ***	46.9 ^{1/2}	40.1 ***	6.8
	02:40-02:45 HOUR	46.4 ^{1/2}	44.3 ***	45.2 ^{1/2}	40.1 ***	5.1
	02:45-02:50 HOUR	50.8 ^{1/2}	49.0 ***	49.1 ^{1/2}	44.2 ***	4.9
	02:50-02:55 HOUR	49.4 ^{1/2}	49.0 ***	41.8 ^{1/2}	44.2 ***	<0.8
	02:55-03:00 HOUR	50.5 ^{1/2}	49.0 ***	48.2 ^{1/2}	44.2 ***	4.0
	03:00-03:05 HOUR	47.9 ^{1/2}	47.5 ***	40.3 ^{1/2}	40.0 ***	<0.8
	03:05-03:10 HOUR	48.3 ^{1/2}	47.5 ***	43.6 ^{1/2}	40.0 ***	3.6
	03:10-03:15 HOUR	45.5 ^{1/2}	47.5 ***	<0.8 ^{1/2}	40.0 ***	<0.8
	03:15-03:20 HOUR	46.6 ^{1/2}	44.2 ***	45.9 ^{1/2}	38.5 ***	7.4
	03:20-03:25 HOUR	46.6 ^{1/2}	44.2 ***	45.9 ^{1/2}	38.5 ***	7.4
	03:25-03:30 HOUR	46.8 ^{1/2}	44.2 ***	46.3 ^{1/2}	38.5 ***	7.8
	03:30-03:35 HOUR	46.9 ^{1/2}	45.4 ***	44.6 ^{1/2}	39.0 ***	5.6
	03:35-03:40 HOUR	44.2 ^{1/2}	45.4 ***	<0.8 ^{1/2}	39.0 ***	<0.8
	03:40-03:45 HOUR	47.5 ^{1/2}	45.4 ***	46.3 ^{1/2}	39.0 ***	7.3
	03:45-03:50 HOUR	46.3 ^{1/2}	47.0 ***	<0.8 ^{1/2}	40.6 ***	<0.8
	03:50-03:55 HOUR	49.5 ^{1/2}	47.0 ***	48.9 ^{1/2}	40.6 ***	8.3
	03:55-04:00 HOUR	48.1 ^{1/2}	47.0 ***	44.6 ^{1/2}	40.6 ***	4.0
	04:00-04:05 HOUR	50.1 ^{1/2}	49.9 ***	39.6 ^{1/2}	47.9 ***	<0.8
	04:05-04:10 HOUR	50.2 ^{1/2}	49.9 ***	41.4 ^{1/2}	47.9 ***	<0.8
	04:10-04:15 HOUR	50.9 ^{1/2}	49.9 ***	47.0 ^{1/2}	47.9 ***	<0.8
	04:15-04:20 HOUR	50.3 ^{1/2}	50.2 ***	36.9 ^{1/2}	46.6 ***	<0.8
	04:20-04:25 HOUR	50.9 ^{1/2}	50.2 ***	45.6 ^{1/2}	46.6 ***	<0.8
	04:25-04:30 HOUR	50.3 ^{1/2}	50.2 ***	36.9 ^{1/2}	46.6 ***	<0.8

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

5/14

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 24, 2023 TZSAT318-0007	DAY TIME 2/					
	13:00-14:00 HOUR	47.5 ^{1/2}	46.5 **	40.6 ^{1/2}	42.5 **	<0.8
	14:00-15:00 HOUR	47.6 ^{1/2}	44.5 **	44.7 ^{1/2}	42.1 **	2.6
	15:00-16:00 HOUR	45.9 ^{1/2}	44.0 **	41.4 ^{1/2}	42.4 **	<0.8
	16:00-17:00 HOUR	54.4 ^{1/2}	48.6 **	53.1 ^{1/2}	45.1 **	8.0
	17:00-18:00 HOUR	43.7 ^{1/2}	42.3 **	38.1 ^{1/2}	39.5 **	<0.8
	18:00-19:00 HOUR	43.7 ^{1/2}	41.3 **	40.0 ^{1/2}	39.7 **	<0.8
	19:00-20:00 HOUR	47.2 ^{1/2}	40.8 **	46.1 ^{1/2}	38.6 **	7.2
	20:00-21:00 HOUR	43.2 ^{1/2}	41.4 **	38.5 ^{1/2}	38.6 **	<0.8
	21:00-22:00 HOUR	41.3 ^{1/2}	40.2 **	34.8 ^{1/2}	38.2 **	<0.8
	NIGHT TIME 2/					
	22:00-22:05 HOUR	41.3 ^{1/2}	39.6 ***	39.4 ^{1/2}	37.9 ***	1.5
	22:05-22:10 HOUR	42.5 ^{1/2}	39.6 ***	42.4 ^{1/2}	37.9 ***	4.5
	22:10-22:15 HOUR	40.1 ^{1/2}	39.6 ***	33.5 ^{1/2}	37.9 ***	<0.8
	22:15-22:20 HOUR	40.8 ^{1/2}	40.1 ***	35.5 ^{1/2}	38.3 ***	<0.8
	22:20-22:25 HOUR	40.4 ^{1/2}	40.1 ***	31.6 ^{1/2}	38.3 ***	<0.8
	22:25-22:30 HOUR	41.1 ^{1/2}	40.1 ***	37.2 ^{1/2}	38.3 ***	<0.8
	22:30-22:35 HOUR	47.4 ^{1/2}	46.9 ***	40.8 ^{1/2}	41.0 ***	<0.8
	22:35-22:40 HOUR	46.9 ^{1/2}	46.9 ***	<0.8 ^{1/2}	41.0 ***	<0.8
	22:40-22:45 HOUR	47.6 ^{1/2}	46.9 ***	42.3 ^{1/2}	41.0 ***	1.3
	22:45-22:50 HOUR	43.4 ^{1/2}	43.4 ***	<0.8 ^{1/2}	39.0 ***	<0.8
	22:50-22:55 HOUR	46.9 ^{1/2}	43.4 ***	47.3 ^{1/2}	39.0 ***	8.3
	22:55-23:00 HOUR	43.6 ^{1/2}	43.4 ***	33.1 ^{1/2}	39.0 ***	<0.8
	23:00-23:05 HOUR	42.4 ^{1/2}	41.0 ***	39.8 ^{1/2}	38.0 ***	1.8
	23:05-23:10 HOUR	42.6 ^{1/2}	41.0 ***	40.5 ^{1/2}	38.0 ***	2.5
	23:10-23:15 HOUR	43.2 ^{1/2}	41.0 ***	42.2 ^{1/2}	38.0 ***	4.2
	23:15-23:20 HOUR	41.6 ^{1/2}	40.4 ***	38.4 ^{1/2}	38.7 ***	<0.8
	23:20-23:25 HOUR	41.4 ^{1/2}	40.4 ***	37.5 ^{1/2}	38.7 ***	<0.8
	23:25-23:30 HOUR	40.7 ^{1/2}	40.4 ***	31.9 ^{1/2}	38.7 ***	<0.8
	23:30-23:35 HOUR	41.8 ^{1/2}	39.6 ***	40.8 ^{1/2}	38.1 ***	2.7
	23:35-23:40 HOUR	40.7 ^{1/2}	39.6 ***	37.2 ^{1/2}	38.1 ***	<0.8
	23:40-23:45 HOUR	41.1 ^{1/2}	39.6 ***	38.8 ^{1/2}	38.1 ***	<0.8
	23:45-23:50 HOUR	43.4 ^{1/2}	39.7 ***	44.0 ^{1/2}	37.4 ***	6.6
	23:50-23:55 HOUR	41.1 ^{1/2}	39.7 ***	38.5 ^{1/2}	37.4 ***	1.1
	23:55-00:00 HOUR	40.8 ^{1/2}	39.7 ***	37.3 ^{1/2}	37.4 ***	<0.8
SEPTEMBER 25, 2023 TZSAT318-0007	NIGHT TIME 2/					
	00:00-00:05 HOUR	43.5 ^{1/2}	41.1 ***	42.8 ^{1/2}	38.5 ***	4.3
	00:05-00:10 HOUR	42.1 ^{1/2}	41.1 ***	38.2 ^{1/2}	38.5 ***	<0.8
	00:10-00:15 HOUR	42.5 ^{1/2}	41.1 ***	39.9 ^{1/2}	38.5 ***	1.4
	00:15-00:20 HOUR	42.7 ^{1/2}	42.4 ***	<0.8 ^{1/2}	39.0 ***	<0.8
	00:20-00:25 HOUR	42.9 ^{1/2}	42.4 ***	33.9 ^{1/2}	39.0 ***	<0.8
	00:25-00:30 HOUR	46.2 ^{1/2}	42.4 ***	46.9 ^{1/2}	39.0 ***	7.9
	00:30-00:35 HOUR	48.9 ^{1/2}	48.1 ***	<0.8 ^{1/2}	39.5 ***	<0.8
	00:35-00:40 HOUR	48.6 ^{1/2}	48.1 ***	42.0 ^{1/2}	39.5 ***	2.5
	00:40-00:45 HOUR	46.1 ^{1/2}	48.1 ***	<0.8 ^{1/2}	39.5 ***	<0.8
	00:45-00:50 HOUR	48.8 ^{1/2}	47.1 ***	46.9 ^{1/2}	40.5 ***	6.0

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

4/14

DATE	TIME*	RESULT (dB(A)) ผลการตรวจระดับความดังเสียง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 25, 2023 T23AT318-0008	NIGHT TIME ^{2/}					
	22:40-22:45 HOUR	42.0 ^{2/}	41.6 ***	34.4 ^{2/}	39.2 ***	<0.8
	22:45-22:50 HOUR	43.7 ^{2/}	42.4 ***	40.8 ^{2/}	39.9 ***	0.9
	22:50-22:55 HOUR	42.1 ^{2/}	42.4 ***	<0.8 ^{2/}	39.9 ***	<0.8
	22:55-23:00 HOUR	43.8 ^{2/}	42.4 ***	41.2 ^{2/}	39.9 ***	1.3
	23:00-23:05 HOUR	43.8 ^{2/}	41.8 ***	42.5 ^{2/}	38.7 ***	3.8
	23:05-23:10 HOUR	42.6 ^{2/}	41.8 ***	37.9 ^{2/}	38.7 ***	<0.8
	23:10-23:15 HOUR	44.8 ^{2/}	41.8 ***	44.8 ^{2/}	38.7 ***	6.1
	23:15-23:20 HOUR	41.8 ^{2/}	41.1 ***	36.5 ^{2/}	38.9 ***	<0.8
	23:20-23:25 HOUR	43.9 ^{2/}	41.1 ***	43.7 ^{2/}	38.9 ***	4.8
	23:25-23:30 HOUR	41.9 ^{2/}	41.1 ***	37.2 ^{2/}	38.9 ***	<0.8
	23:30-23:35 HOUR	42.6 ^{2/}	43.8 ***	<0.8 ^{2/}	40.3 ***	<0.8
	23:35-23:40 HOUR	45.0 ^{2/}	43.8 ***	41.8 ^{2/}	40.3 ***	1.5
	23:40-23:45 HOUR	45.6 ^{2/}	43.8 ***	43.9 ^{2/}	40.3 ***	3.6
	23:45-23:50 HOUR	43.1 ^{2/}	41.2 ***	41.6 ^{2/}	39.0 ***	2.6
	23:50-23:55 HOUR	41.0 ^{2/}	41.2 ***	<0.8 ^{2/}	39.0 ***	<0.8
	23:55-00:00 HOUR	41.5 ^{2/}	41.2 ***	32.7 ^{2/}	39.0 ***	<0.8
SEPTEMBER 26, 2023 T23AT318-0008	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	42.3 ^{2/}	43.4 ***	<0.8 ^{2/}	39.0 ***	<0.8
	00:05-00:10 HOUR	43.5 ^{2/}	43.4 ***	30.1 ^{2/}	39.0 ***	<0.8
	00:10-00:15 HOUR	44.0 ^{2/}	43.4 ***	38.1 ^{2/}	39.0 ***	<0.8
	00:15-00:20 HOUR	46.8 ^{2/}	43.6 ***	47.0 ^{2/}	39.9 ***	7.1
	00:20-00:25 HOUR	46.0 ^{2/}	43.6 ***	45.3 ^{2/}	39.9 ***	5.4
	00:25-00:30 HOUR	43.2 ^{2/}	43.6 ***	<0.8 ^{2/}	39.9 ***	<0.8
	00:30-00:35 HOUR	44.2 ^{2/}	44.4 ***	<0.8 ^{2/}	39.3 ***	<0.8
	00:35-00:40 HOUR	44.8 ^{2/}	44.4 ***	37.2 ^{2/}	39.3 ***	<0.8
	00:40-00:45 HOUR	46.2 ^{2/}	44.4 ***	44.5 ^{2/}	39.3 ***	5.2
	00:45-00:50 HOUR	47.2 ^{2/}	46.3 ***	42.9 ^{2/}	38.7 ***	4.2
	00:50-00:55 HOUR	47.5 ^{2/}	46.3 ***	44.3 ^{2/}	38.7 ***	5.6
	00:55-01:00 HOUR	47.6 ^{2/}	46.3 ***	44.7 ^{2/}	38.7 ***	6.0
	01:00-01:05 HOUR	49.1 ^{2/}	47.8 ***	46.2 ^{2/}	40.0 ***	6.2
	01:05-01:10 HOUR	49.7 ^{2/}	47.8 ***	48.2 ^{2/}	40.0 ***	8.2
	01:10-01:15 HOUR	48.5 ^{2/}	47.8 ***	43.2 ^{2/}	40.0 ***	3.2
	01:15-01:20 HOUR	51.2 ^{2/}	49.3 ***	49.7 ^{2/}	44.2 ***	5.5
	01:20-01:25 HOUR	49.7 ^{2/}	49.3 ***	42.1 ^{2/}	44.2 ***	<0.8
	01:25-01:30 HOUR	50.2 ^{2/}	49.3 ***	45.9 ^{2/}	44.2 ***	1.7
	01:30-01:35 HOUR	50.7 ^{2/}	48.2 ***	50.1 ^{2/}	43.9 ***	6.2
SEPTEMBER 26, 2023 T23AT318-0008	01:35-01:40 HOUR	48.8 ^{2/}	48.2 ***	42.9 ^{2/}	43.9 ***	<0.8
	01:40-01:45 HOUR	48.9 ^{2/}	48.2 ***	43.6 ^{2/}	43.9 ***	<0.8
	01:45-01:50 HOUR	51.4 ^{2/}	51.1 ***	42.6 ^{2/}	44.5 ***	<0.8
	01:50-01:55 HOUR	51.4 ^{2/}	51.1 ***	42.6 ^{2/}	44.5 ***	<0.8
	01:55-02:00 HOUR	51.9 ^{2/}	51.1 ***	42.6 ^{2/}	44.5 ***	<0.8
	02:00-02:05 HOUR	49.7 ^{2/}	49.6 ***	36.3 ^{2/}	42.8 ***	<0.8
	02:05-02:10 HOUR	47.3 ^{2/}	49.6 ***	<0.8 ^{2/}	42.8 ***	<0.8
	02:10-02:15 HOUR	46.4 ^{2/}	49.6 ***	<0.8 ^{2/}	42.8 ***	<0.8
	02:15-02:20 HOUR	50.5 ^{2/}	48.9 ***	48.4 ^{2/}	45.7 ***	2.7

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

DATE	TIME*	RESULT (dB(A)) ผลการตรวจระดับความดังเสียง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 25, 2023 T23AT318-0007	NIGHT TIME ^{2/}					
	04:30-04:35 HOUR	50.3 ^{2/}	49.4 ***	46.0 ^{2/}	45.0 ***	1.0
	04:35-04:40 HOUR	50.5 ^{2/}	49.4 ***	47.0 ^{2/}	45.0 ***	2.0
	04:40-04:45 HOUR	50.2 ^{2/}	49.4 ***	45.5 ^{2/}	45.0 ***	<0.8
	04:45-04:50 HOUR	50.4 ^{2/}	48.2 ***	49.4 ^{2/}	46.1 ***	3.3
	04:50-04:55 HOUR	51.2 ^{2/}	48.2 ***	51.2 ^{2/}	46.1 ***	5.1
	04:55-05:00 HOUR	51.6 ^{2/}	48.2 ***	51.9 ^{2/}	46.1 ***	5.8
	05:00-05:05 HOUR	51.2 ^{2/}	48.1 ***	51.3 ^{2/}	44.6 ***	6.7
	05:05-05:10 HOUR	50.8 ^{2/}	48.1 ***	50.5 ^{2/}	44.6 ***	5.9
	05:10-05:15 HOUR	50.4 ^{2/}	48.1 ***	49.5 ^{2/}	44.6 ***	4.9
	05:15-05:20 HOUR	47.7 ^{2/}	48.5 ***	<0.8 ^{2/}	39.9 ***	<0.8
	05:20-05:25 HOUR	48.5 ***	48.5 ***	42.4 ^{2/}	39.9 ***	2.5
	05:25-05:30 HOUR	48.8 ^{2/}	48.5 ***	40.0 ^{2/}	39.9 ***	<0.8
	05:30-05:35 HOUR	48.6 ^{2/}	50.4 ***	<0.8 ^{2/}	46.7 ***	<0.8
	05:35-05:40 HOUR	52.9 ^{2/}	50.4 ***	52.3 ^{2/}	46.7 ***	5.6
	05:40-05:45 HOUR	51.1 ^{2/}	50.4 ***	45.8 ^{2/}	46.7 ***	<0.8
	05:45-05:50 HOUR	47.3 ^{2/}	45.7 ***	45.2 ^{2/}	42.1 ***	3.1
	05:50-05:55 HOUR	46.1 ^{2/}	45.7 ***	38.5 ^{2/}	42.1 ***	<0.8
	05:55-06:00 HOUR	46.4 ^{2/}	45.7 ***	41.1 ^{2/}	42.1 ***	<0.8
SEPTEMBER 25, 2023 T23AT318-0008	DAY TIME ^{1/}					
	06:00-07:00 HOUR	46.2 ^{1/}	43.5 **	42.9 ^{1/}	39.7 **	3.2
	07:00-08:00 HOUR	51.3 ^{1/}	49.2 **	47.1 ^{1/}	45.7 **	1.4
	08:00-09:00 HOUR	51.4 ^{1/}	48.1 **	48.7 ^{1/}	45.0 **	3.7
	09:00-10:00 HOUR	48.7 ^{1/}	44.1 **	46.9 ^{1/}	40.4 **	6.5
	10:00-11:00 HOUR	47.6 ^{1/}	44.5 **	44.7 ^{1/}	41.7 **	3.0
	11:00-12:00 HOUR	49.6 ^{1/}	46.3 **	46.9 ^{1/}	41.1 **	5.8
	12:00-13:00 HOUR	48.9 ^{1/}	45.5 **	46.2 ^{1/}	41.6 **	4.6
	13:00-14:00 HOUR	47.7 ^{1/}	47.6 **	31.3 ^{1/}	41.8 **	<0.8
	14:00-15:00 HOUR	49.4 ^{1/}	45.3 **	47.3 ^{1/}	39.6 **	7.7
	15:00-16:00 HOUR	45.4 ^{1/}	43.4 **	41.1 ^{1/}	38.3 **	2.8
	16:00-17:00 HOUR	55.9 ^{1/}	51.5 **	53.9 ^{1/}	46.0 **	7.9
	17:00-18:00 HOUR	54.7 ^{1/}	52.8 **	50.2 ^{1/}	43.7 **	6.5
	18:00-19:00 HOUR	53.5 ^{1/}	49.9 **	51.0 ^{1/}	46.1 **	4.9
	19:00-20:00 HOUR	53.2 ^{1/}	48.9 **	51.2 ^{1/}	45.2 **	6.0
	20:00-21:00 HOUR	53.9 ^{1/}	47.9 **	52.6 ^{1/}	44.8 **	7.8
	21:00-22:00 HOUR	52.1 ^{1/}	49.4 **	48.8 ^{1/}	41.5 **	7.3
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	52.3 ^{2/}	52.0 ***	43.5 ^{2/}	39.7 ***	3.8
	22:05-22:10 HOUR	52.6 ^{2/}	52.0 ***	46.7 ^{2/}	39.7 ***	7.0
	22:10-22:15 HOUR	52.4 ^{2/}	52.0 ***	44.8 ^{2/}	39.7 ***	5.1
	22:15-22:20 HOUR	43.4 ^{2/}	41.7 ***	41.5 ^{2/}	38.6 ***	2.9
	22:20-22:25 HOUR	43.5 ^{2/}	41.7 ***	41.8 ^{2/}	38.6 ***	3.2
	22:25-22:30 HOUR	42.0 ^{2/}	41.7 ***	33.2 ^{2/}	38.6 ***	<0.8
	22:30-22:35 HOUR	44.1 ^{2/}	41.6 ***	43.5 ^{2/}	39.2 ***	4.3
	22:35-22:40 HOUR	43.7 ^{2/}	41.6 ***	42.5 ^{2/}	39.2 ***	3.3

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 26, 2023 T23AT318-0008	DAY TIME ^{1/} 06:00-07:00 HOUR	47.6 ^{1/}	45.1 ^{1/}	44.0 ^{1/}	40.2 ^{1/}	3.8
	DAY TIME ^{1/} 07:00-08:00 HOUR	48.7 ^{1/}	46.3 ^{1/}	45.0 ^{1/}	40.7 ^{1/}	4.3
SEPTEMBER 26, 2023 T23AT318-0009	08:00-09:00 HOUR	47.4 ^{1/}	41.3 ^{1/}	46.2 ^{1/}	38.3 ^{1/}	7.9
	09:00-10:00 HOUR	48.9 ^{1/}	44.8 ^{1/}	46.8 ^{1/}	40.3 ^{1/}	6.5
	10:00-11:00 HOUR	47.4 ^{1/}	45.0 ^{1/}	43.7 ^{1/}	41.2 ^{1/}	2.5
	11:00-12:00 HOUR	50.0 ^{1/}	46.5 ^{1/}	47.4 ^{1/}	41.3 ^{1/}	6.1
	12:00-13:00 HOUR	46.8 ^{1/}	44.7 ^{1/}	42.6 ^{1/}	40.7 ^{1/}	1.9
	13:00-14:00 HOUR	51.0 ^{1/}	49.0 ^{1/}	43.3 ^{1/}	43.3 ^{1/}	5.7
	14:00-15:00 HOUR	52.9 ^{1/}	50.9 ^{1/}	48.6 ^{1/}	49.8 ^{1/}	<0.8
	15:00-16:00 HOUR	52.9 ^{1/}	49.5 ^{1/}	50.2 ^{1/}	48.1 ^{1/}	2.1
	16:00-17:00 HOUR	55.7 ^{1/}	54.3 ^{1/}	50.1 ^{1/}	52.2 ^{1/}	<0.8
	17:00-18:00 HOUR	54.1 ^{1/}	52.3 ^{1/}	49.4 ^{1/}	51.1 ^{1/}	<0.8
	18:00-19:00 HOUR	55.2 ^{1/}	51.1 ^{1/}	49.9 ^{1/}	50.1 ^{1/}	5.2
	19:00-20:00 HOUR	57.0 ^{1/}	52.0 ^{1/}	55.3 ^{1/}	50.1 ^{1/}	7.3
	20:00-21:00 HOUR	59.4 ^{1/}	53.4 ^{1/}	58.1 ^{1/}	50.8 ^{1/}	8.5
	21:00-22:00 HOUR	57.8 ^{1/}	50.4 ^{1/}	48.4 ^{1/}		
	NIGHT TIME ^{2/} 22:00-22:05 HOUR	43.1 ^{1/}	43.0 ^{1/}	29.7 ^{1/}	41.0 ^{1/}	<0.8
	22:05-22:10 HOUR	43.6 ^{1/}	43.0 ^{1/}	37.7 ^{1/}	41.0 ^{1/}	<0.8
	22:10-22:15 HOUR	43.7 ^{1/}	43.0 ^{1/}	38.4 ^{1/}	41.0 ^{1/}	<0.8
	22:15-22:20 HOUR	46.0 ^{1/}	42.5 ^{1/}	42.2 ^{1/}	42.2 ^{1/}	<0.8
	22:20-22:25 HOUR	45.0 ^{1/}	44.9 ^{1/}	31.6 ^{1/}	42.2 ^{1/}	<0.8
	22:25-22:30 HOUR	45.6 ^{1/}	44.9 ^{1/}	40.3 ^{1/}	42.2 ^{1/}	<0.8
	22:30-22:35 HOUR	46.2 ^{1/}	46.1 ^{1/}	32.8 ^{1/}	40.2 ^{1/}	<0.8
	22:35-22:40 HOUR	46.3 ^{1/}	46.1 ^{1/}	35.8 ^{1/}	40.2 ^{1/}	<0.8
	22:40-22:45 HOUR	46.2 ^{1/}	46.1 ^{1/}	32.8 ^{1/}	40.2 ^{1/}	<0.8
	22:45-22:50 HOUR	43.0 ^{1/}	40.7 ^{1/}	42.1 ^{1/}	39.1 ^{1/}	3.0
	22:50-22:55 HOUR	43.8 ^{1/}	40.7 ^{1/}	43.9 ^{1/}	39.1 ^{1/}	4.8
	22:55-23:00 HOUR	43.4 ^{1/}	40.7 ^{1/}	43.1 ^{1/}	39.1 ^{1/}	4.0
	23:00-23:05 HOUR	41.9 ^{1/}	42.2 ^{1/}	<0.8 ^{1/}	39.7 ^{1/}	<0.8
	23:05-23:10 HOUR	43.2 ^{1/}	42.2 ^{1/}	39.3 ^{1/}	39.7 ^{1/}	<0.8
	23:10-23:15 HOUR	43.3 ^{1/}	42.2 ^{1/}	39.8 ^{1/}	39.7 ^{1/}	<0.8
	23:15-23:20 HOUR	44.0 ^{1/}	42.2 ^{1/}	42.3 ^{1/}	40.3 ^{1/}	2.0
	23:20-23:25 HOUR	43.2 ^{1/}	42.2 ^{1/}	39.3 ^{1/}	40.3 ^{1/}	<0.8
	23:25-23:30 HOUR	42.3 ^{1/}	42.2 ^{1/}	28.9 ^{1/}	40.3 ^{1/}	<0.8
	23:30-23:35 HOUR	43.1 ^{1/}	42.4 ^{1/}	37.8 ^{1/}	39.9 ^{1/}	<0.8
	23:35-23:40 HOUR	43.7 ^{1/}	42.4 ^{1/}	40.8 ^{1/}	39.9 ^{1/}	0.9
	23:40-23:45 HOUR	44.6 ^{1/}	42.4 ^{1/}	43.6 ^{1/}	39.9 ^{1/}	3.7
	23:45-23:50 HOUR	43.5 ^{1/}	41.7 ^{1/}	41.8 ^{1/}	40.2 ^{1/}	1.6
	23:50-23:55 HOUR	44.4 ^{1/}	41.7 ^{1/}	44.1 ^{1/}	40.2 ^{1/}	3.9
	23:55-00:00 HOUR	42.3 ^{1/}	41.7 ^{1/}	36.4 ^{1/}	40.2 ^{1/}	<0.8
SEPTEMBER 27, 2023 T23AT318-0009	NIGHT TIME ^{2/} 00:00-00:05 HOUR	42.5 ^{1/}	41.0 ^{1/}	40.2 ^{1/}	39.6 ^{1/}	<0.8
	00:05-00:10 HOUR	41.7 ^{1/}	41.0 ^{1/}	36.4 ^{1/}	39.6 ^{1/}	<0.8

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO., LTD.

2023-U085591

9/14

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 26, 2023 T23AT318-0008	NIGHT TIME ^{2/} 02:20-02:25 HOUR	51.9 ^{1/}	48.9 ^{1/}	51.9 ^{1/}	45.7 ^{1/}	6.2
	02:25-02:30 HOUR	51.4 ^{1/}	48.9 ^{1/}	50.8 ^{1/}	45.7 ^{1/}	5.1
	02:30-02:35 HOUR	48.7 ^{1/}	48.2 ^{1/}	42.1 ^{1/}	40.3 ^{1/}	1.8
	02:35-02:40 HOUR	48.2 ^{1/}	48.2 ^{1/}	<0.8 ^{1/}	40.3 ^{1/}	<0.8
	02:40-02:45 HOUR	48.6 ^{1/}	48.2 ^{1/}	41.0 ^{1/}	40.3 ^{1/}	<0.8
	02:45-02:50 HOUR	49.6 ^{1/}	46.6 ^{1/}	49.6 ^{1/}	41.3 ^{1/}	8.3
	02:50-02:55 HOUR	45.6 ^{1/}	46.6 ^{1/}	<0.8 ^{1/}	41.3 ^{1/}	<0.8
	02:55-03:00 HOUR	46.1 ^{1/}	46.6 ^{1/}	<0.8 ^{1/}	41.3 ^{1/}	<0.8
	03:00-03:05 HOUR	47.2 ^{1/}	47.1 ^{1/}	33.8 ^{1/}	43.1 ^{1/}	<0.8
	03:05-03:10 HOUR	49.2 ^{1/}	47.1 ^{1/}	48.0 ^{1/}	43.1 ^{1/}	4.9
	03:10-03:15 HOUR	49.0 ^{1/}	47.1 ^{1/}	47.5 ^{1/}	43.1 ^{1/}	4.4
	03:15-03:20 HOUR	52.8 ^{1/}	51.6 ^{1/}	49.6 ^{1/}	41.7 ^{1/}	7.9
	03:20-03:25 HOUR	50.8 ^{1/}	51.6 ^{1/}	<0.8 ^{1/}	41.7 ^{1/}	<0.8
	03:25-03:30 HOUR	50.5 ^{1/}	51.6 ^{1/}	<0.8 ^{1/}	41.7 ^{1/}	<0.8
	03:30-03:35 HOUR	47.6 ^{1/}	47.1 ^{1/}	41.0 ^{1/}	40.6 ^{1/}	<0.8
	03:35-03:40 HOUR	48.3 ^{1/}	47.1 ^{1/}	45.1 ^{1/}	40.6 ^{1/}	4.5
	03:40-03:45 HOUR	49.2 ^{1/}	47.1 ^{1/}	48.0 ^{1/}	40.6 ^{1/}	7.4
	03:45-03:50 HOUR	50.2 ^{1/}	49.1 ^{1/}	46.7 ^{1/}	40.9 ^{1/}	5.8
	03:50-03:55 HOUR	50.4 ^{1/}	49.1 ^{1/}	47.5 ^{1/}	40.9 ^{1/}	6.6
	03:55-04:00 HOUR	49.6 ^{1/}	49.1 ^{1/}	43.0 ^{1/}	40.9 ^{1/}	2.1
	04:00-04:05 HOUR	49.7 ^{1/}	47.0 ^{1/}	49.4 ^{1/}	41.2 ^{1/}	8.2
	04:05-04:10 HOUR	49.3 ^{1/}	47.0 ^{1/}	48.4 ^{1/}	41.2 ^{1/}	7.2
	04:10-04:15 HOUR	48.3 ^{1/}	47.0 ^{1/}	45.4 ^{1/}	41.2 ^{1/}	4.2
	04:15-04:20 HOUR	48.0 ^{1/}	46.3 ^{1/}	46.1 ^{1/}	42.3 ^{1/}	3.8
	04:20-04:25 HOUR	47.5 ^{1/}	46.3 ^{1/}	44.3 ^{1/}	42.3 ^{1/}	2.0
	04:25-04:30 HOUR	48.7 ^{1/}	46.3 ^{1/}	48.0 ^{1/}	42.3 ^{1/}	5.7
	04:30-04:35 HOUR	47.1 ^{1/}	45.6 ^{1/}	44.8 ^{1/}	39.1 ^{1/}	5.7
	04:35-04:40 HOUR	47.6 ^{1/}	45.6 ^{1/}	46.3 ^{1/}	39.1 ^{1/}	7.2
	04:40-04:45 HOUR	46.4 ^{1/}	45.6 ^{1/}	41.7 ^{1/}	39.1 ^{1/}	2.6
	04:45-04:50 HOUR	46.9 ^{1/}	43.9 ^{1/}	46.9 ^{1/}	39.2 ^{1/}	7.7
	04:50-04:55 HOUR	46.6 ^{1/}	43.9 ^{1/}	46.3 ^{1/}	39.2 ^{1/}	7.1
	04:55-05:00 HOUR	44.4 ^{1/}	43.9 ^{1/}	37.8 ^{1/}	39.2 ^{1/}	<0.8
	05:00-05:05 HOUR	46.1 ^{1/}	42.6 ^{1/}	46.5 ^{1/}	39.1 ^{1/}	7.4
	05:05-05:10 HOUR	44.2 ^{1/}	42.6 ^{1/}	42.1 ^{1/}	39.1 ^{1/}	3.0
	05:10-05:15 HOUR	44.9 ^{1/}	42.6 ^{1/}	44.0 ^{1/}	39.1 ^{1/}	4.9
	05:15-05:20 HOUR	49.4 ^{1/}	48.8 ^{1/}	43.5 ^{1/}	45.5 ^{1/}	<0.8
	05:20-05:25 HOUR	49.8 ^{1/}	48.8 ^{1/}	45.9 ^{1/}	45.5 ^{1/}	<0.8
	05:25-05:30 HOUR	49.6 ^{1/}	48.8 ^{1/}	44.9 ^{1/}	45.5 ^{1/}	<0.8
	05:30-05:35 HOUR	47.4 ^{1/}	46.9 ^{1/}	40.8 ^{1/}	43.0 ^{1/}	<0.8
	05:35-05:40 HOUR	49.0 ^{1/}	46.9 ^{1/}	47.8 ^{1/}	43.0 ^{1/}	4.8
	05:40-05:45 HOUR	49.3 ^{1/}	46.9 ^{1/}	48.6 ^{1/}	43.0 ^{1/}	5.6
	05:45-05:50 HOUR	49.7 ^{1/}	48.6 ^{1/}	46.2 ^{1/}	43.4 ^{1/}	2.8
	05:50-05:55 HOUR	49.3 ^{1/}	48.6 ^{1/}	44.0 ^{1/}	43.4 ^{1/}	<0.8
	05:55-06:00 HOUR	49.8 ^{1/}	48.6 ^{1/}	46.6 ^{1/}	43.4 ^{1/}	3.2

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO., LTD.

2023-U085591

8/14

PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 27, 2023 T23AT318-0009	NIGHT TIME ^{2/}					
	03:55-04:00 HOUR	47.4 ^{2/}	48.1 ***	<0.8 ^{2/}	42.1 ***	<0.8
	04:00-04:05 HOUR	49.7 ^{2/}	48.1 ***	47.6 ^{2/}	42.1 ***	5.5
	04:05-04:10 HOUR	48.8 ^{2/}	54.7 ***	<0.8 ^{2/}	44.9 ***	<0.8
	04:10-04:15 HOUR	55.7 ^{2/}	54.7 ***	51.8 ^{2/}	44.9 ***	6.9
	04:15-04:20 HOUR	53.2 ^{2/}	54.7 ***	<0.8 ^{2/}	44.9 ***	<0.8
	04:20-04:25 HOUR	48.0 ^{2/}	46.3 ***	46.1 ^{2/}	41.5 ***	4.6
	04:25-04:30 HOUR	47.2 ^{2/}	46.3 ***	42.9 ^{2/}	41.5 ***	1.4
	04:30-04:35 HOUR	47.4 ^{2/}	46.3 ***	43.9 ^{2/}	41.5 ***	2.4
	04:35-04:40 HOUR	47.3 ^{2/}	47.1 ***	36.8 ^{2/}	41.5 ***	<0.8
	04:40-04:45 HOUR	47.1 ^{2/}	47.1 ***	<0.8 ^{2/}	41.5 ***	<0.8
	04:45-04:50 HOUR	47.6 ^{2/}	47.1 ***	41.0 ^{2/}	41.5 ***	<0.8
	04:50-04:55 HOUR	46.9 ^{2/}	47.3 ***	43.4 ^{2/}	42.8 ***	<0.8
	04:55-05:00 HOUR	48.4 ^{2/}	47.3 ***	44.9 ^{2/}	42.8 ***	2.1
	05:00-05:05 HOUR	47.4 ^{2/}	46.0 ***	44.8 ^{2/}	41.2 ***	3.6
	05:05-05:10 HOUR	46.3 ^{2/}	46.0 ***	37.5 ^{2/}	41.2 ***	<0.8
	05:10-05:15 HOUR	47.1 ^{2/}	46.0 ***	43.6 ^{2/}	42.1 ***	2.4
	05:15-05:20 HOUR	46.7 ^{2/}	46.1 ***	40.8 ^{2/}	42.1 ***	<0.8
	05:20-05:25 HOUR	47.9 ^{2/}	46.1 ***	46.2 ^{2/}	42.1 ***	4.1
	05:25-05:30 HOUR	48.1 ^{2/}	46.1 ***	42.1 ***	42.1 ***	4.7
	05:30-05:35 HOUR	52.3 ^{2/}	52.2 ***	38.9 ^{2/}	46.9 ***	<0.8
	05:35-05:40 HOUR	52.8 ^{2/}	52.2 ***	46.9 ^{2/}	46.9 ***	<0.8
	05:40-05:45 HOUR	53.0 ^{2/}	52.2 ***	48.3 ^{2/}	46.9 ***	1.4
	05:45-05:50 HOUR	49.8 ^{2/}	47.7 ***	48.6 ^{2/}	43.5 ***	5.1
	05:50-05:55 HOUR	49.7 ^{2/}	47.7 ***	43.8 ^{2/}	43.5 ***	<0.8
	05:55-06:00 HOUR	49.4 ^{2/}	47.7 ***	47.5 ^{2/}	43.5 ***	4.0
SEPTEMBER 27, 2023 T23AT318-0010	DAY TIME ^{2/}					
	06:00-07:00 HOUR	50.3 ^{2/}	46.3 **	48.1 ^{2/}	42.1 **	6.0
	07:00-08:00 HOUR	48.4 ^{2/}	44.2 **	46.3 ^{2/}	40.2 **	5.1
	08:00-09:00 HOUR	47.3 ^{2/}	45.5 **	42.6 ^{2/}	40.5 **	2.1
	09:00-10:00 HOUR	48.7 ^{2/}	45.1 **	46.2 ^{2/}	39.7 **	6.5
	10:00-11:00 HOUR	53.8 ^{2/}	47.9 **	52.5 ^{2/}	44.0 **	8.5
	11:00-12:00 HOUR	49.7 ^{2/}	45.9 **	47.4 ^{2/}	41.5 **	5.9
	12:00-13:00 HOUR	51.5 ^{2/}	45.8 **	50.1 ^{2/}	42.3 **	7.8
	13:00-14:00 HOUR	49.2 ^{2/}	48.1 **	42.7 ^{2/}	42.0 **	<0.8
	14:00-15:00 HOUR	47.7 ^{2/}	43.7 **	45.5 ^{2/}	39.9 **	5.6
	15:00-16:00 HOUR	50.4 ^{2/}	43.2 **	49.5 ^{2/}	41.5 **	8.0
	16:00-17:00 HOUR	52.7 ^{2/}	50.9 **	48.0 ^{2/}	49.6 **	<0.8
	17:00-18:00 HOUR	62.2 ^{2/}	57.7 **	60.3 ^{2/}	56.9 **	3.4
	18:00-19:00 HOUR	58.8 ^{2/}	54.0 **	57.1 ^{2/}	52.9 **	4.2
	19:00-20:00 HOUR	54.6 ^{2/}	53.0 **	49.5 ^{2/}	52.1 **	<0.8
	20:00-21:00 HOUR	49.6 ^{2/}	47.4 **	45.6 ^{2/}	45.7 **	<0.8
	21:00-22:00 HOUR	45.4 ^{2/}	42.8 **	41.9 ^{2/}	41.3 **	<0.8
	NIGHT TIME ^{2/}					

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 27, 2023 T23AT318-0009	NIGHT TIME ^{2/}					
	00:10-00:15 HOUR	41.5 ^{2/}	41.0 ***	34.9 ^{2/}	39.6 ***	<0.8
	00:15-00:20 HOUR	43.1 ^{2/}	42.4 ***	37.8 ^{2/}	40.1 ***	<0.8
	00:20-00:25 HOUR	44.1 ^{2/}	42.4 ***	42.2 ^{2/}	40.1 ***	2.1
	00:25-00:30 HOUR	45.1 ^{2/}	42.4 ***	44.8 ^{2/}	40.1 ***	4.7
	00:30-00:35 HOUR	44.0 ^{2/}	43.7 ***	35.2 ^{2/}	39.2 ***	<0.8
	00:35-00:40 HOUR	43.6 ^{2/}	43.7 ***	<0.8 ^{2/}	39.2 ***	<0.8
	00:40-00:45 HOUR	43.9 ^{2/}	43.7 ***	33.4 ^{2/}	39.2 ***	<0.8
	00:45-00:50 HOUR	49.1 ^{2/}	50.6 ***	<0.8 ^{2/}	40.5 ***	<0.8
	00:50-00:55 HOUR	51.1 ^{2/}	50.6 ***	44.5 ^{2/}	40.5 ***	4.0
	00:55-01:00 HOUR	49.8 ^{2/}	50.6 ***	<0.8 ^{2/}	40.5 ***	<0.8
	01:00-01:05 HOUR	47.5 ^{2/}	47.4 ***	34.1 ^{2/}	42.0 ***	<0.8
	01:05-01:10 HOUR	48.6 ^{2/}	47.4 ***	45.4 ^{2/}	42.0 ***	3.4
	01:10-01:15 HOUR	48.9 ^{2/}	47.4 ***	46.6 ^{2/}	42.0 ***	4.6
	01:15-01:20 HOUR	48.2 ^{2/}	48.1 ***	34.8 ^{2/}	41.7 ***	<0.8
	01:20-01:25 HOUR	48.3 ^{2/}	48.1 ***	37.8 ^{2/}	41.7 ***	<0.8
	01:25-01:30 HOUR	48.9 ^{2/}	48.1 ***	44.2 ^{2/}	41.7 ***	2.5
	01:30-01:35 HOUR	47.1 ^{2/}	45.9 ***	43.9 ^{2/}	42.6 ***	1.3
	01:35-01:40 HOUR	48.1 ^{2/}	45.9 ***	47.1 ^{2/}	42.6 ***	4.5
	01:40-01:45 HOUR	47.8 ^{2/}	45.9 ***	46.3 ^{2/}	42.6 ***	3.7
	01:45-01:50 HOUR	47.9 ^{2/}	47.6 ***	39.1 ^{2/}	42.3 ***	<0.8
	01:50-01:55 HOUR	50.5 ^{2/}	47.6 ***	50.4 ^{2/}	42.3 ***	8.1
	01:55-02:00 HOUR	49.5 ^{2/}	47.6 ***	48.0 ^{2/}	42.3 ***	5.7
	02:00-02:05 HOUR	49.3 ^{2/}	46.5 ***	49.1 ^{2/}	41.0 ***	8.1
	02:05-02:10 HOUR	48.5 ^{2/}	46.5 ***	47.2 ^{2/}	41.0 ***	6.2
	02:10-02:15 HOUR	47.6 ^{2/}	46.5 ***	44.1 ^{2/}	41.0 ***	3.1
	02:15-02:20 HOUR	48.3 ^{2/}	49.8 ***	<0.8 ^{2/}	42.3 ***	<0.8
	02:20-02:25 HOUR	46.7 ^{2/}	49.8 ***	<0.8 ^{2/}	42.3 ***	<0.8
	02:25-02:30 HOUR	50.4 ^{2/}	49.8 ***	44.5 ^{2/}	42.3 ***	2.2
	02:30-02:35 HOUR	50.9 ^{2/}	50.8 ***	37.5 ^{2/}	44.2 ***	<0.8
	02:35-02:40 HOUR	53.1 ^{2/}	50.8 ***	52.2 ^{2/}	44.2 ***	8.0
	02:40-02:45 HOUR	51.4 ^{2/}	50.8 ***	45.5 ^{2/}	44.2 ***	1.3
	02:45-02:50 HOUR	52.9 ^{2/}	50.1 ***	52.7 ^{2/}	44.2 ***	8.5
	02:50-02:55 HOUR	50.0 ^{2/}	50.1 ***	<0.8 ^{2/}	44.2 ***	<0.8
	02:55-03:00 HOUR	52.9 ^{2/}	50.1 ***	52.7 ^{2/}	44.2 ***	8.5
	03:00-03:05 HOUR	50.4 ^{2/}	48.1 ***	49.5 ^{2/}	40.9 ***	8.6
	03:05-03:10 HOUR	47.6 ^{2/}	48.1 ***	<0.8 ^{2/}	40.9 ***	<0.8
	03:10-03:15 HOUR	49.7 ^{2/}	48.1 ***	47.6 ^{2/}	40.9 ***	6.7
	03:15-03:20 HOUR	47.6 ^{2/}	47.7 ***	<0.8 ^{2/}	42.1 ***	<0.8
	03:20-03:25 HOUR	47.8 ^{2/}	47.7 ***	34.4 ^{2/}	42.1 ***	<0.8
	03:25-03:30 HOUR	49.7 ^{2/}	47.7 ***	48.4 ^{2/}	42.1 ***	6.3
	03:30-03:35 HOUR	49.6 ^{2/}	47.5 ***	48.4 ^{2/}	42.0 ***	6.4
	03:35-03:40 HOUR	48.6 ^{2/}	47.5 ***	45.1 ^{2/}	42.0 ***	3.1
	03:40-03:45 HOUR	48.1 ^{2/}	47.5 ***	42.2 ^{2/}	42.0 ***	<0.8
	03:45-03:50 HOUR	49.1 ^{2/}	48.1 ***	45.2 ^{2/}	42.1 ***	3.1

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 28, 2023 T23AT318-0010	NIGHT TIME 2/					
	01:40-01:45 HOUR	48.2 2/	46.5 ***	46.3 2/	40.0 ***	6.3
	01:45-01:50 HOUR	48.0 2/	48.8 ***	<0.8 2/	43.0 ***	<0.8
	01:50-01:55 HOUR	49.2 2/	48.8 ***	41.6 2/	43.0 ***	<0.8
	01:55-02:00 HOUR	51.5 2/	48.8 ***	51.2 2/	43.0 ***	8.2
	02:00-02:05 HOUR	47.1 2/	48.7 ***	<0.8 2/	41.2 ***	<0.8
	02:05-02:10 HOUR	50.6 2/	48.7 ***	49.1 2/	41.2 ***	7.9
	02:10-02:15 HOUR	50.0 2/	48.7 ***	47.1 2/	41.2 ***	5.9
	02:15-02:20 HOUR	51.5 2/	50.7 ***	46.8 2/	42.2 ***	4.6
	02:20-02:25 HOUR	50.7 2/	50.7 ***	<0.8 2/	42.2 ***	<0.8
	02:25-02:30 HOUR	51.9 2/	50.7 ***	48.7 2/	42.2 ***	6.5
	02:30-02:35 HOUR	51.7 2/	51.3 ***	44.1 2/	42.5 ***	1.6
	02:35-02:40 HOUR	51.6 2/	51.3 ***	42.8 2/	42.5 ***	<0.8
	02:40-02:45 HOUR	51.8 2/	51.3 ***	45.2 2/	42.5 ***	2.7
	02:45-02:50 HOUR	49.8 2/	47.5 ***	48.9 2/	42.1 ***	6.8
	02:50-02:55 HOUR	49.6 2/	47.5 ***	48.4 2/	42.1 ***	6.3
	02:55-03:00 HOUR	48.0 2/	47.5 ***	41.4 2/	42.1 ***	<0.8
	03:00-03:05 HOUR	50.2 2/	49.8 ***	42.6 2/	42.3 ***	<0.8
	03:05-03:10 HOUR	50.5 2/	49.8 ***	42.3 2/	42.3 ***	2.9
	03:10-03:15 HOUR	51.2 2/	49.8 ***	48.6 2/	42.3 ***	5.3
	03:15-03:20 HOUR	46.8 2/	46.8 ***	43.2 2/	43.2 ***	<0.8
	03:20-03:25 HOUR	47.4 2/	46.8 ***	41.5 2/	43.2 ***	<0.8
	03:25-03:30 HOUR	48.6 2/	46.8 ***	46.9 2/	43.2 ***	3.7
	03:30-03:35 HOUR	49.1 2/	48.3 ***	<0.8 2/	40.0 ***	<0.8
	03:35-03:40 HOUR	48.3 2/	48.3 ***	48.7 2/	40.0 ***	8.7
	03:40-03:45 HOUR	50.2 2/	48.6 ***	<0.8 2/	43.5 ***	<0.8
	03:45-03:50 HOUR	48.4 2/	48.6 ***	45.2 2/	43.5 ***	1.7
	03:50-03:55 HOUR	49.5 2/	48.6 ***	<0.8 2/	43.5 ***	<0.8
	03:55-04:00 HOUR	48.6 2/	48.6 ***	52.6 2/	45.4 ***	7.2
	04:00-04:05 HOUR	52.2 2/	48.7 ***	51.9 2/	45.4 ***	6.5
	04:05-04:10 HOUR	51.8 2/	48.7 ***	<0.8 2/	45.4 ***	<0.8
	04:10-04:15 HOUR	47.9 2/	48.7 ***	48.7 2/	43.3 ***	7.4
	04:15-04:20 HOUR	49.4 2/	49.0 ***	41.8 2/	43.3 ***	<0.8
	04:20-04:25 HOUR	51.4 2/	49.0 ***	50.7 2/	43.3 ***	5.5
	04:25-04:30 HOUR	50.7 2/	49.0 ***	48.8 2/	44.2 ***	6.6
	04:30-04:35 HOUR	51.1 2/	48.4 ***	50.8 2/	44.2 ***	3.0
	04:35-04:40 HOUR	49.8 2/	48.4 ***	47.2 2/	44.2 ***	<0.8
	04:40-04:45 HOUR	48.7 2/	48.4 ***	39.9 2/	44.2 ***	4.9
	04:45-04:50 HOUR	50.0 2/	47.8 ***	49.0 2/	44.1 ***	3.2
	04:50-04:55 HOUR	49.4 2/	47.8 ***	47.3 2/	44.1 ***	1.3
	04:55-05:00 HOUR	48.9 2/	47.8 ***	45.4 2/	44.1 ***	2.0
	05:00-05:05 HOUR	48.7 2/	47.7 ***	44.8 2/	42.8 ***	1.0
	05:05-05:10 HOUR	48.5 2/	47.7 ***	43.8 2/	42.8 ***	6.3
	05:10-05:15 HOUR	50.0 2/	47.7 ***	49.1 2/	42.8 ***	4.2
	05:15-05:20 HOUR	50.2 2/	49.1 ***	46.7 2/	42.5 ***	

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 27, 2023 T23AT318-0010	NIGHT TIME 2/					
	22:00-22:05 HOUR	42.7 2/	40.7 ***	41.4 2/	39.4 ***	2.0
	22:05-22:10 HOUR	42.7 2/	40.7 ***	43.7 2/	39.4 ***	4.3
	22:10-22:15 HOUR	42.4 2/	40.7 ***	40.5 2/	39.4 ***	1.1
	22:15-22:20 HOUR	42.4 2/	42.3 ***	29.0 2/	40.8 ***	<0.8
	22:20-22:25 HOUR	42.4 2/	42.3 ***	29.0 2/	40.8 ***	<0.8
	22:25-22:30 HOUR	43.4 2/	42.3 ***	39.9 2/	40.8 ***	<0.8
	22:30-22:35 HOUR	43.8 2/	42.9 ***	39.5 2/	40.0 ***	<0.8
	22:35-22:40 HOUR	43.0 2/	42.9 ***	29.6 2/	40.0 ***	<0.8
	22:40-22:45 HOUR	44.2 2/	42.9 ***	41.3 2/	40.0 ***	1.3
	22:45-22:50 HOUR	43.3 2/	42.4 ***	39.0 2/	38.6 ***	<0.8
	22:50-22:55 HOUR	42.3 2/	42.4 ***	<0.8 2/	38.6 ***	<0.8
	22:55-23:00 HOUR	43.8 2/	42.4 ***	41.2 2/	38.6 ***	2.6
	23:00-23:05 HOUR	41.5 2/	46.6 ***	<0.8 2/	39.7 ***	<0.8
	23:05-23:10 HOUR	47.1 2/	46.6 ***	40.5 2/	39.7 ***	0.8
	23:10-23:15 HOUR	42.5 2/	46.6 ***	<0.8 2/	39.7 ***	<0.8
	23:15-23:20 HOUR	43.3 2/	41.3 ***	42.0 2/	40.8 ***	1.2
	23:20-23:25 HOUR	43.1 2/	41.3 ***	41.4 2/	40.8 ***	<0.8
	23:25-23:30 HOUR	44.5 2/	41.3 ***	44.7 2/	40.8 ***	3.9
	23:30-23:35 HOUR	44.1 2/	46.2 ***	<0.8 2/	39.8 ***	<0.8
	23:35-23:40 HOUR	48.1 2/	46.2 ***	46.6 2/	39.8 ***	6.8
	23:40-23:45 HOUR	46.7 2/	46.2 ***	40.1 2/	39.8 ***	<0.8
	23:45-23:50 HOUR	43.2 2/	41.0 ***	42.2 2/	38.5 ***	3.7
	23:50-23:55 HOUR	43.2 2/	41.0 ***	42.2 2/	38.5 ***	3.7
	23:55-00:00 HOUR	41.6 2/	41.0 ***	35.7 2/	38.5 ***	<0.8
SEPTEMBER 28, 2023 T23AT318-0010	NIGHT TIME 2/					
	00:00-00:05 HOUR	43.2 2/	41.2 ***	41.9 2/	38.4 ***	3.5
	00:05-00:10 HOUR	41.8 2/	41.2 ***	35.9 2/	38.4 ***	<0.8
	00:10-00:15 HOUR	41.9 2/	41.2 ***	36.6 2/	38.4 ***	<0.8
	00:15-00:20 HOUR	42.5 2/	42.6 ***	<0.8 2/	39.1 ***	<0.8
	00:20-00:25 HOUR	46.2 2/	42.6 ***	46.7 2/	39.1 ***	7.6
	00:25-00:30 HOUR	43.1 2/	42.6 ***	36.5 2/	39.1 ***	<0.8
	00:30-00:35 HOUR	44.6 2/	44.2 ***	37.0 2/	40.1 ***	<0.8
	00:35-00:40 HOUR	45.4 2/	44.2 ***	42.2 2/	40.1 ***	2.1
	00:40-00:45 HOUR	46.4 2/	44.2 ***	45.4 2/	40.1 ***	5.3
	00:45-00:50 HOUR	47.7 2/	46.2 ***	45.4 2/	41.1 ***	4.3
	00:50-00:55 HOUR	48.1 2/	46.2 ***	46.6 2/	41.1 ***	5.5
	00:55-01:00 HOUR	49.2 2/	46.2 ***	49.2 2/	41.1 ***	8.1
	01:00-01:05 HOUR	48.0 2/	47.0 ***	44.1 2/	41.6 ***	2.5
	01:05-01:10 HOUR	48.3 2/	47.0 ***	45.4 2/	41.6 ***	3.8
	01:10-01:15 HOUR	47.7 2/	47.0 ***	42.4 2/	41.6 ***	0.8
	01:15-01:20 HOUR	47.7 2/	48.5 ***	<0.8 2/	41.0 ***	<0.8
	01:20-01:25 HOUR	49.6 2/	48.5 ***	46.1 2/	41.0 ***	5.1
	01:25-01:30 HOUR	48.1 2/	48.5 ***	<0.8 2/	41.0 ***	<0.8
	01:30-01:35 HOUR	48.4 2/	46.5 ***	46.9 2/	40.0 ***	6.9
	01:35-01:40 HOUR	48.4 2/	46.5 ***	46.9 2/	40.0 ***	6.9



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uaee@uaeconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเรือขนส่งสินค้า

CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED

ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230

CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com

MEASURING TYPE : AMBIENT (NOISE SOUND LEVEL)

MEASURING DATE : SEPTEMBER 23-28, 2023

MEASURING TIME : *

MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER AND CALCULATION

MEASURED BY : MR SIRAPAT JONGPHADUKIET

ANALYSIS NO. : T23AT318-0011 - T23AT318-0015

RECEIVED DATE : SEPTEMBER 23-28, 2023

ANALYTICAL DATE : SEPTEMBER 23-28, 2023

REPORT NO. : 2023-U085592

WORK NO. : 2022-008114

RESULT (dB(A))

วันที่วัดค่าเสียง

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 23, 2023 T23AT318-0011	DAY TIME ^{1/}					
	07:00-08:00 HOUR	56.8 ^{1/}	53.5 ^{**}	54.1 ^{1/}	49.9 ^{**}	4.2
	08:00-09:00 HOUR	53.1 ^{1/}	50.8 ^{**}	49.2 ^{1/}	43.3 ^{**}	5.9
	09:00-10:00 HOUR	51.4 ^{1/}	48.1 ^{**}	48.7 ^{1/}	43.1 ^{**}	5.6
	10:00-11:00 HOUR	55.4 ^{1/}	52.5 ^{**}	52.3 ^{1/}	47.4 ^{**}	4.9
	11:00-12:00 HOUR	55.6 ^{1/}	53.2 ^{**}	51.9 ^{1/}	44.9 ^{**}	7.0
	12:00-13:00 HOUR	54.4 ^{1/}	51.0 ^{**}	51.7 ^{1/}	44.4 ^{**}	7.3
	13:00-14:00 HOUR	55.3 ^{1/}	53.2 ^{**}	51.1 ^{1/}	44.2 ^{**}	6.9
	14:00-15:00 HOUR	58.0 ^{1/}	52.1 ^{**}	56.7 ^{1/}	48.6 ^{**}	8.1
	15:00-16:00 HOUR	54.1 ^{1/}	50.7 ^{**}	51.4 ^{1/}	45.3 ^{**}	6.1
	16:00-17:00 HOUR	59.1 ^{1/}	53.5 ^{**}	57.7 ^{1/}	49.0 ^{**}	8.7
	17:00-18:00 HOUR	49.2 ^{1/}	47.1 ^{**}	45.0 ^{1/}	43.8 ^{**}	1.2
	18:00-19:00 HOUR	50.7 ^{1/}	48.6 ^{**}	46.5 ^{1/}	42.1 ^{**}	4.4
	19:00-20:00 HOUR	48.1 ^{1/}	46.0 ^{**}	43.9 ^{1/}	44.0 ^{**}	<0.8
	20:00-21:00 HOUR	47.6 ^{1/}	46.8 ^{**}	39.9 ^{1/}	42.1 ^{**}	<0.8
	21:00-22:00 HOUR	48.7 ^{1/}	43.0 ^{**}	47.3 ^{1/}	41.5 ^{**}	5.8
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	45.5 ^{1/}	43.1 ^{***}	44.8 ^{1/}	40.6 ^{***}	4.2
	22:05-22:10 HOUR	43.4 ^{1/}	43.1 ^{***}	34.6 ^{1/}	40.6 ^{***}	<0.8
	22:10-22:15 HOUR	43.9 ^{1/}	43.1 ^{***}	39.2 ^{1/}	40.6 ^{***}	<0.8
	22:15-22:20 HOUR	43.3 ^{1/}	39.3 ^{***}	44.1 ^{1/}	35.6 ^{***}	8.5
	22:20-22:25 HOUR	38.6 ^{1/}	39.3 ^{***}	<0.8 ^{1/}	35.6 ^{***}	<0.8
	22:25-22:30 HOUR	40.6 ^{1/}	39.3 ^{***}	37.7 ^{1/}	35.6 ^{***}	2.1
	22:30-22:35 HOUR	40.8 ^{1/}	40.7 ^{***}	27.4 ^{1/}	37.3 ^{***}	<0.8
	22:35-22:40 HOUR	40.7 ^{1/}	40.7 ^{***}	<0.8 ^{1/}	37.3 ^{***}	<0.8
	22:40-22:45 HOUR	42.5 ^{1/}	40.7 ^{***}	40.8 ^{1/}	37.3 ^{***}	3.5
	22:45-22:50 HOUR	42.8 ^{1/}	41.6 ^{***}	39.6 ^{1/}	38.9 ^{***}	<0.8
	22:50-22:55 HOUR	42.4 ^{1/}	41.6 ^{***}	37.7 ^{1/}	38.9 ^{***}	<0.8
	22:55-23:00 HOUR	41.8 ^{1/}	41.6 ^{***}	31.3 ^{1/}	38.9 ^{***}	<0.8
	23:00-23:05 HOUR	52.9 ^{1/}	50.9 ^{***}	51.6 ^{1/}	46.9 ^{***}	4.7
	23:05-23:10 HOUR	51.1 ^{1/}	50.9 ^{***}	40.6 ^{1/}	46.9 ^{***}	<0.8
	23:10-23:15 HOUR	53.3 ^{1/}	50.9 ^{***}	52.6 ^{1/}	46.9 ^{***}	5.7
	23:15-23:20 HOUR	54.1 ^{1/}	50.9 ^{***}	54.3 ^{1/}	47.0 ^{***}	7.3

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/14



BY ESI GROUP (THAILAND) CO., LTD



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel 0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uaee@uaeconsultant.com

RESULT (dB(A))

วันที่วัดค่าเสียง

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 28, 2023 T23AT318-0010	NIGHT TIME ^{3/}					
	05:20-05:25 HOUR	50.5 ^{1/}	49.1 ^{***}	47.9 ^{1/}	42.5 ^{***}	5.4
	05:25-05:30 HOUR	49.6 ^{1/}	49.1 ^{***}	43.0 ^{1/}	42.5 ^{***}	<0.8
	05:30-05:35 HOUR	49.2 ^{1/}	47.1 ^{***}	48.0 ^{1/}	41.3 ^{***}	6.7
	05:35-05:40 HOUR	49.8 ^{1/}	47.1 ^{***}	49.5 ^{1/}	41.3 ^{***}	8.2
	05:40-05:45 HOUR	48.3 ^{1/}	47.1 ^{***}	45.1 ^{1/}	41.3 ^{***}	3.8
	05:45-05:50 HOUR	45.6 ^{1/}	49.7 ^{***}	<0.8 ^{1/}	43.6 ^{***}	<0.8
	DAY TIME ^{4/}					
	05:50-05:55 HOUR	50.3 ^{1/}	49.7 ^{***}	44.4 ^{1/}	43.6 ^{***}	0.8
	05:55-06:00 HOUR	50.2 ^{1/}	49.7 ^{***}	43.6 ^{1/}	43.6 ^{***}	<0.8
	06:00-07:00 HOUR	49.0 ^{1/}	47.5 ^{**}	43.7 ^{1/}	41.1 ^{**}	2.6

REMARK : 1/ CASE 1 CALCULATION (DURING 06:00 TO 22:00 HOUR) : SPECIFIC SOUND LEVEL CONTINUOUSLY OCCUR AT LEAST 1 HOUR, MEASURING AS L_{Aeq} 1 hour.

2/ CASE 4 CALCULATION (DURING 22:00 TO 06:00 HOUR) : SPECIFIC SOUND LEVEL OCCUR IN RESTFUL AREA OR NIGHT TIME, MEASURING AS L_{Aeq} 5 minutes.

** PERCENTILE LEVEL 90 (L_{A90}) IS THE MIDDLE VALUE OF 11 TIMES MEASURING.

AND RESIDUAL SOUND LEVEL (L_{Aeq} 5 minutes) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.

*** PERCENTILE LEVEL 90 (L_{A90}) IS THE MIDDLE VALUE OF 3 TIMES MEASURING.

(15 MINUTES MEASURING DURING 22:00 TO 06:00 HOUR)

AND RESIDUAL SOUND LEVEL (L_{Aeq} 5 minutes) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.

hid 78

(MR. SULA BANONGJAIKUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

14/14



BY ESI GROUP (THAILAND) CO., LTD

- End of Analysis Report -

2023-U085591

DATE	TIME*	RESULT (dB(A)) ผลการวัดระดับความดัง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 24, 2023 T23AT318-0011	NIGHT TIME ^{2/}					
	03:00-03:05 HOUR	43.9 ^{2/}	43.7 ***	33.4 ^{2/}	42.7 ***	<0.8
	03:05-03:10 HOUR	44.2 ^{2/}	43.7 ***	37.6 ^{2/}	42.7 ***	<0.8
	03:10-03:15 HOUR	44.6 ^{2/}	43.7 ***	40.3 ^{2/}	42.7 ***	<0.8
	03:15-03:20 HOUR	44.2 ^{2/}	42.8 ***	41.6 ^{2/}	41.8 ***	<0.8
	03:20-03:25 HOUR	43.7 ^{2/}	42.8 ***	39.4 ^{2/}	41.8 ***	<0.8
	03:25-03:30 HOUR	44.4 ^{2/}	42.8 ***	42.3 ^{2/}	41.8 ***	<0.8
	03:30-03:35 HOUR	43.9 ^{2/}	43.0 ***	39.6 ^{2/}	42.3 ***	<0.8
	03:35-03:40 HOUR	44.0 ^{2/}	43.0 ***	40.1 ^{2/}	42.3 ***	<0.8
	03:40-03:45 HOUR	43.8 ^{2/}	43.0 ***	39.1 ^{2/}	42.3 ***	<0.8
	03:45-03:50 HOUR	43.8 ^{2/}	43.2 ***	37.9 ^{2/}	41.9 ***	<0.8
	03:50-03:55 HOUR	44.6 ^{2/}	43.2 ***	42.0 ^{2/}	41.9 ***	<0.8
	03:55-04:00 HOUR	45.2 ^{2/}	43.2 ***	41.9 ***	41.9 ***	2.0
	04:00-04:05 HOUR	44.2 ^{2/}	42.2 ***	42.9 ^{2/}	41.6 ***	1.3
	04:05-04:10 HOUR	43.9 ^{2/}	42.2 ***	42.0 ^{2/}	41.6 ***	<0.8
	04:10-04:15 HOUR	43.9 ^{2/}	42.2 ***	42.0 ^{2/}	41.6 ***	<0.8
SEPTEMBER 24, 2023 T23AT318-0011	NIGHT TIME ^{2/}					
	04:15-04:20 HOUR	43.7 ^{2/}	41.7 ***	42.4 ^{2/}	41.2 ***	1.2
	04:20-04:25 HOUR	43.7 ^{2/}	41.7 ***	41.2 ***	41.2 ***	1.9
	04:25-04:30 HOUR	44.0 ^{2/}	41.7 ***	43.1 ^{2/}	41.0 ***	2.1
	04:30-04:35 HOUR	44.0 ^{2/}	41.7 ***	42.9 ^{2/}	41.0 ***	1.9
	04:35-04:40 HOUR	43.9 ^{2/}	41.7 ***	42.4 ^{2/}	41.0 ***	1.4
	04:40-04:45 HOUR	43.7 ^{2/}	41.7 ***	42.1 ^{2/}	41.3 ***	0.8
	04:45-04:50 HOUR	44.0 ^{2/}	42.3 ***	41.1 ^{2/}	41.3 ***	<0.8
	04:50-04:55 HOUR	43.7 ^{2/}	42.3 ***	41.8 ^{2/}	41.3 ***	<0.8
	04:55-05:00 HOUR	43.9 ^{2/}	42.3 ***	41.9 ^{2/}	43.6 ***	<0.8
	05:00-05:05 HOUR	46.2 ^{2/}	45.3 ***	42.9 ^{2/}	43.6 ***	<0.8
	05:05-05:10 HOUR	46.4 ^{2/}	45.3 ***	43.7 ^{2/}	43.6 ***	<0.8
	05:10-05:15 HOUR	46.6 ^{2/}	47.6 ***	42.3 ^{2/}	44.0 ***	<0.8
	05:15-05:20 HOUR	48.2 ^{2/}	47.6 ***	44.2 ^{2/}	44.0 ***	<0.8
	05:20-05:25 HOUR	48.5 ^{2/}	47.6 ***	44.2 ^{2/}	44.0 ***	<0.8
	05:25-05:30 HOUR	49.1 ^{2/}	47.6 ***	46.8 ^{2/}	44.0 ***	2.8
SEPTEMBER 24, 2023 T23AT318-0012	DAY TIME ^{3/}					
	06:00-07:00 HOUR	46.8 ^{2/}	45.5 **	40.9 ^{2/}	44.1 **	<0.8
	DAY TIME ^{1/}					
	07:00-08:00 HOUR	57.3 ^{2/}	56.6 **	49.0 ^{2/}	54.5 **	<0.8
	08:00-09:00 HOUR	58.3 ^{2/}	54.3 **	56.1 ^{2/}	53.2 **	2.9
	09:00-10:00 HOUR	56.6 ^{2/}	54.9 **	51.7 ^{2/}	48.4 **	3.3
	10:00-11:00 HOUR	57.3 ^{2/}	53.6 **	54.9 ^{2/}	46.7 **	8.2
	11:00-12:00 HOUR	58.4 ^{2/}	54.4 **	56.2 ^{2/}	49.5 **	6.7
	12:00-13:00 HOUR	52.6 ^{2/}	51.2 **	47.0 ^{2/}	43.8 **	3.2
* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY. * THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.						

DATE	TIME*	RESULT (dB(A)) ผลการวัดระดับความดัง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 23, 2023 T23AT318-0011	NIGHT TIME ^{2/}					
	23:20-23:25 HOUR	53.2 ^{2/}	50.9 ***	52.3 ^{2/}	47.0 ***	5.3
	23:25-23:30 HOUR	54.2 ^{2/}	50.9 ***	54.5 ^{2/}	47.0 ***	7.5
	23:30-23:35 HOUR	49.1 ^{2/}	47.0 ***	47.9 ^{2/}	45.8 ***	2.1
	23:35-23:40 HOUR	48.6 ^{2/}	47.0 ***	46.5 ^{2/}	45.8 ***	<0.8
	23:40-23:45 HOUR	48.0 ^{2/}	47.0 ***	44.1 ^{2/}	45.8 ***	<0.8
	23:45-23:50 HOUR	47.4 ^{2/}	43.8 ***	47.9 ^{2/}	39.8 ***	8.1
	23:50-23:55 HOUR	47.3 ^{2/}	43.8 ***	47.7 ^{2/}	39.8 ***	7.9
	23:55-00:00 HOUR	44.1 ^{2/}	43.8 ***	35.3 ^{2/}	39.8 ***	<0.8
	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	44.1 ^{2/}	44.0 ***	30.7 ^{2/}	39.3 ***	<0.8
	00:05-00:10 HOUR	44.4 ^{2/}	44.0 ***	36.8 ^{2/}	39.3 ***	<0.8
	00:10-00:15 HOUR	44.9 ^{2/}	44.0 ***	40.6 ^{2/}	39.3 ***	1.3
	00:15-00:20 HOUR	45.4 ^{2/}	44.4 ***	41.5 ^{2/}	38.5 ***	3.0
	00:20-00:25 HOUR	45.4 ^{2/}	44.4 ***	41.5 ^{2/}	38.5 ***	3.0
	00:25-00:30 HOUR	46.2 ^{2/}	44.4 ***	44.5 ^{2/}	38.5 ***	6.0
SEPTEMBER 24, 2023 T23AT318-0011	NIGHT TIME ^{2/}					
	00:30-00:35 HOUR	47.3 ^{2/}	45.9 ***	44.7 ^{2/}	40.6 ***	7.1
	00:35-00:40 HOUR	48.6 ^{2/}	45.9 ***	48.3 ^{2/}	40.6 ***	4.7
	00:40-00:45 HOUR	46.9 ^{2/}	45.9 ***	43.0 ^{2/}	40.6 ***	2.4
	00:45-00:50 HOUR	48.9 ^{2/}	48.3 ***	43.0 ^{2/}	40.0 ***	3.0
	00:50-00:55 HOUR	48.4 ^{2/}	48.3 ***	35.0 ^{2/}	40.0 ***	<0.8
	00:55-01:00 HOUR	49.6 ^{2/}	48.3 ***	46.7 ^{2/}	40.0 ***	6.7
	01:00-01:05 HOUR	50.7 ^{2/}	51.6 ***	<0.8 ^{2/}	40.7 ***	<0.8
	01:05-01:10 HOUR	52.5 ^{2/}	51.6 ***	48.2 ^{2/}	40.7 ***	7.5
	01:10-01:15 HOUR	51.1 ^{2/}	51.6 ***	<0.8 ^{2/}	40.7 ***	<0.8
	01:15-01:20 HOUR	53.3 ^{2/}	51.8 ***	51.0 ^{2/}	42.4 ***	8.6
	01:20-01:25 HOUR	50.4 ^{2/}	51.8 ***	<0.8 ^{2/}	42.4 ***	<0.8
	01:25-01:30 HOUR	52.7 ^{2/}	51.8 ***	48.4 ^{2/}	42.4 ***	6.0
	01:30-01:35 HOUR	53.1 ^{2/}	52.7 ***	45.5 ^{2/}	42.1 ***	3.4
	01:35-01:40 HOUR	52.9 ^{2/}	52.7 ***	42.4 ^{2/}	42.1 ***	<0.8
	01:40-01:45 HOUR	53.9 ^{2/}	52.7 ***	50.7 ^{2/}	42.1 ***	8.6
SEPTEMBER 24, 2023 T23AT318-0012	DAY TIME ^{3/}					
	01:45-01:50 HOUR	54.0 ^{2/}	53.5 ***	47.4 ^{2/}	43.9 ***	3.5
	01:50-01:55 HOUR	53.8 ^{2/}	53.5 ***	45.0 ^{2/}	43.9 ***	1.1
	01:55-02:00 HOUR	53.2 ^{2/}	53.5 ***	<0.8 ^{2/}	43.9 ***	<0.8
	02:00-02:05 HOUR	54.7 ^{2/}	52.7 ***	53.4 ^{2/}	44.7 ***	8.7
	02:05-02:10 HOUR	54.2 ^{2/}	52.7 ***	51.9 ^{2/}	44.7 ***	7.2
	02:10-02:15 HOUR	53.4 ^{2/}	52.7 ***	48.1 ^{2/}	44.7 ***	3.4
	02:15-02:20 HOUR	54.1 ^{2/}	53.3 ***	49.4 ^{2/}	45.0 ***	4.4
	02:20-02:25 HOUR	52.3 ^{2/}	53.3 ***	<0.8 ^{2/}	45.0 ***	<0.8
	02:25-02:30 HOUR	52.1 ^{2/}	53.3 ***	<0.8 ^{2/}	45.0 ***	<0.8
	02:30-02:35 HOUR	53.5 ^{2/}	52.7 ***	48.8 ^{2/}	42.7 ***	6.1
	02:35-02:40 HOUR	53.2 ^{2/}	52.7 ***	46.6 ^{2/}	42.7 ***	3.9
	02:40-02:45 HOUR	52.3 ^{2/}	52.7 ***	<0.8 ^{2/}	42.7 ***	<0.8
	02:45-02:50 HOUR	44.6 ^{2/}	41.3 ***	44.9 ^{2/}	39.0 ***	5.9
	02:50-02:55 HOUR	44.5 ^{2/}	41.3 ***	44.7 ^{2/}	39.0 ***	5.7
	02:55-03:00 HOUR	43.8 ^{2/}	41.3 ***	43.2 ^{2/}	39.0 ***	4.2
* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY. * THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.						

DATE	TIME*	RESULT (dB(A)) ผลการวัดระดับความดัง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 25, 2023 TZ3AT318-0012	NIGHT TIME 2/					
	00:50-00:55 HOUR	52.4 2/	48.3 ***	53.3 2/	46.1 ***	7.2
	00:55-01:00 HOUR	48.1 2/	48.3 ***	<0.8 2/	46.1 ***	<0.8
	01:00-01:05 HOUR	47.9 2/	47.1 ***	43.2 2/	45.5 ***	<0.8
	01:05-01:10 HOUR	49.0 2/	47.1 ***	47.5 2/	45.5 ***	2.0
	01:10-01:15 HOUR	49.4 2/	47.1 ***	48.5 2/	45.5 ***	3.0
	01:15-01:20 HOUR	47.6 2/	45.7 ***	46.1 2/	45.0 ***	1.1
	01:20-01:25 HOUR	47.2 2/	45.7 ***	44.9 2/	45.0 ***	<0.8
	01:25-01:30 HOUR	47.4 2/	45.7 ***	45.5 2/	45.0 ***	<0.8
	01:30-01:35 HOUR	46.8 2/	44.9 ***	45.3 2/	44.3 ***	1.0
	01:35-01:40 HOUR	46.3 2/	44.9 ***	43.7 2/	44.3 ***	<0.8
	01:40-01:45 HOUR	46.3 2/	44.9 ***	43.7 2/	44.3 ***	<0.8
	01:45-01:50 HOUR	46.4 2/	44.8 ***	44.3 2/	43.7 ***	<0.8
	01:50-01:55 HOUR	46.9 2/	44.8 ***	45.7 2/	43.7 ***	2.0
	01:55-02:00 HOUR	46.8 2/	44.8 ***	45.5 2/	43.7 ***	1.8
	02:00-02:05 HOUR	47.0 2/	45.0 ***	45.7 2/	43.9 ***	1.8
	02:05-02:10 HOUR	46.6 2/	45.0 ***	44.5 2/	43.9 ***	<0.8
	02:10-02:15 HOUR	45.5 2/	45.0 ***	38.9 2/	43.9 ***	<0.8
	02:15-02:20 HOUR	45.6 2/	46.9 ***	<0.8 2/	44.0 ***	<0.8
	02:20-02:25 HOUR	47.0 2/	46.9 ***	33.6 2/	44.0 ***	<0.8
	02:25-02:30 HOUR	49.9 2/	46.9 ***	49.9 2/	44.0 ***	5.9
SEPTEMBER 25, 2023 TZ3AT318-0012	NIGHT TIME 2/					
	02:30-02:35 HOUR	45.3 2/	44.5 ***	40.6 2/	43.4 ***	<0.8
	02:35-02:40 HOUR	46.3 2/	44.5 ***	44.6 2/	43.4 ***	1.2
	02:40-02:45 HOUR	47.3 2/	44.5 ***	47.1 2/	43.4 ***	3.7
	02:45-02:50 HOUR	45.7 2/	44.9 ***	41.0 2/	44.1 ***	<0.8
	02:50-02:55 HOUR	46.0 2/	44.9 ***	42.5 2/	44.1 ***	<0.8
	02:55-03:00 HOUR	46.0 2/	44.9 ***	44.3 2/	43.9 ***	<0.8
	03:00-03:05 HOUR	48.2 2/	47.2 ***	43.3 2/	43.9 ***	<0.8
	03:05-03:10 HOUR	48.0 2/	47.2 ***	46.4 2/	43.9 ***	2.5
	03:10-03:15 HOUR	48.7 2/	47.2 ***	50.6 2/	43.1 ***	7.5
	03:15-03:20 HOUR	49.2 2/	44.0 ***	43.1 ***	43.1 ***	2.8
	03:20-03:25 HOUR	46.5 2/	44.0 ***	45.9 2/	43.1 ***	2.6
	03:25-03:30 HOUR	46.4 2/	44.0 ***	45.7 2/	43.1 ***	<0.8
	03:30-03:35 HOUR	46.2 2/	44.9 ***	43.3 2/	43.7 ***	<0.8
	03:35-03:40 HOUR	46.4 2/	44.9 ***	44.1 2/	43.7 ***	<0.8
	03:40-03:45 HOUR	46.2 2/	44.9 ***	43.3 2/	43.7 ***	<0.8
	03:45-03:50 HOUR	45.6 2/	45.9 ***	<0.8 2/	45.9 ***	<0.8
	03:50-03:55 HOUR	55.1 2/	53.8 ***	52.2 2/	45.9 ***	6.3
	03:55-04:00 HOUR	52.3 2/	53.8 ***	<0.8 2/	45.9 ***	<0.8
	04:00-04:05 HOUR	47.8 2/	45.2 ***	47.3 2/	43.0 ***	4.3
SEPTEMBER 25, 2023 TZ3AT318-0012	NIGHT TIME 2/					
	04:05-04:10 HOUR	48.0 2/	45.2 ***	47.8 2/	43.0 ***	4.8
	04:10-04:15 HOUR	47.5 2/	45.2 ***	46.6 2/	43.0 ***	3.6
	04:15-04:20 HOUR	46.1 2/	44.7 ***	43.5 2/	42.1 ***	1.4
SEPTEMBER 25, 2023 TZ3AT318-0012	NIGHT TIME 2/					
	04:20-04:25 HOUR	46.2 2/	44.7 ***	43.9 2/	42.1 ***	1.8
	04:25-04:30 HOUR	48.7 2/	44.7 ***	49.5 2/	42.1 ***	7.4

DATE	TIME*	RESULT (dB(A)) ผลการวัดระดับความดัง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 24, 2023 TZ3AT318-0012	DAY TIME 1/					
	13:00-14:00 HOUR	51.0 1/	48.2 **	47.8 1/	40.4 **	7.4
	14:00-15:00 HOUR	52.2 1/	46.5 **	50.8 1/	43.1 **	7.7
	15:00-16:00 HOUR	51.3 1/	48.8 **	47.7 1/	47.5 **	<0.8
	16:00-17:00 HOUR	48.3 1/	44.5 **	46.0 1/	40.9 **	5.1
	17:00-18:00 HOUR	50.1 1/	47.1 **	47.1 1/	42.1 **	5.0
	18:00-19:00 HOUR	47.2 1/	42.4 **	45.5 1/	39.5 **	6.0
	19:00-20:00 HOUR	47.3 1/	42.7 **	45.5 1/	39.6 **	5.9
	20:00-21:00 HOUR	48.3 1/	46.3 **	44.0 1/	45.7 **	<0.8
	21:00-22:00 HOUR	51.4 1/	50.9 **	41.8 1/	43.9 **	<0.8
	NIGHT TIME 2/					
	22:00-22:05 HOUR	45.9 2/	45.4 ***	39.3 2/	39.2 ***	<0.8
	22:05-22:10 HOUR	43.2 2/	45.4 ***	<0.8 2/	39.2 ***	<0.8
	22:10-22:15 HOUR	47.6 2/	45.4 ***	46.6 2/	39.2 ***	7.4
	22:15-22:20 HOUR	47.2 2/	46.7 ***	40.6 2/	38.9 ***	1.7
	22:20-22:25 HOUR	45.9 2/	46.7 ***	<0.8 2/	38.9 ***	<0.8
	22:25-22:30 HOUR	48.0 2/	46.7 ***	45.1 2/	38.9 ***	6.2
	22:30-22:35 HOUR	47.9 2/	47.4 ***	41.3 2/	44.6 ***	<0.8
	22:35-22:40 HOUR	47.7 2/	47.4 ***	38.9 2/	44.6 ***	<0.8
	22:40-22:45 HOUR	47.7 2/	47.4 ***	38.9 2/	44.6 ***	<0.8
	22:45-22:50 HOUR	47.3 2/	48.3 ***	<0.8 2/	44.4 ***	<0.8
SEPTEMBER 25, 2023 TZ3AT318-0012	DAY TIME 1/					
	22:50-22:55 HOUR	51.6 2/	48.3 ***	51.9 2/	44.4 ***	7.5
	22:55-23:00 HOUR	51.9 2/	48.3 ***	52.4 2/	44.4 ***	8.0
	23:00-23:05 HOUR	50.6 2/	47.9 ***	50.3 2/	43.6 ***	6.7
	23:05-23:10 HOUR	49.4 2/	47.9 ***	47.1 2/	43.6 ***	3.5
	23:10-23:15 HOUR	50.2 2/	47.9 ***	49.3 2/	43.6 ***	5.7
	23:15-23:20 HOUR	49.6 2/	46.9 ***	49.3 2/	44.7 ***	4.6
	23:20-23:25 HOUR	48.8 2/	46.9 ***	47.3 2/	44.7 ***	2.6
	23:25-23:30 HOUR	48.7 2/	46.9 ***	47.0 2/	44.7 ***	2.3
	23:30-23:35 HOUR	48.8 2/	47.0 ***	47.1 2/	45.0 ***	2.1
	23:35-23:40 HOUR	47.5 2/	47.0 ***	40.9 2/	45.0 ***	<0.8
	23:40-23:45 HOUR	47.1 2/	47.0 ***	33.7 2/	45.0 ***	<0.8
	23:45-23:50 HOUR	46.8 2/	47.6 ***	<0.8 2/	45.6 ***	<0.8
	23:50-23:55 HOUR	50.1 2/	47.6 ***	49.5 2/	45.6 ***	3.9
	23:55-00:00 HOUR	48.9 2/	47.6 ***	46.0 2/	45.6 ***	<0.8
	NIGHT TIME 2/					
	00:00-00:05 HOUR	48.7 2/	48.8 ***	<0.8 2/	45.6 ***	<0.8
	00:05-00:10 HOUR	49.0 2/	48.8 ***	38.5 2/	45.6 ***	<0.8
	00:10-00:15 HOUR	48.1 2/	48.8 ***	<0.8 2/	45.6 ***	<0.8
	00:15-00:20 HOUR	50.7 2/	46.4 ***	51.7 2/	44.9 ***	6.8
SEPTEMBER 25, 2023 TZ3AT318-0012	NIGHT TIME 2/					
	00:20-00:25 HOUR	47.6 2/	46.4 ***	44.4 2/	44.9 ***	<0.8
	00:25-00:30 HOUR	48.2 2/	46.4 ***	46.5 2/	44.9 ***	1.6
	00:30-00:35 HOUR	47.9 2/	45.0 ***	47.8 2/	43.8 ***	4.0
SEPTEMBER 25, 2023 TZ3AT318-0012	NIGHT TIME 2/					
	00:35-00:40 HOUR	47.3 2/	45.0 ***	46.4 2/	43.8 ***	2.6
	00:40-00:45 HOUR	47.3 2/	45.0 ***	46.4 2/	43.8 ***	2.6
	00:45-00:50 HOUR	47.5 2/	48.3 ***	<0.8 2/	46.1 ***	<0.8

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 25, 2023 T23AT318-0013	NIGHT TIME ^{2/}					
	22:40-22:45 HOUR	41.5 ^{2/}	38.0 ^{***}	41.9 ^{2/}	35.2 ^{***}	6.7
	22:45-22:50 HOUR	47.6 ^{2/}	46.4 ^{***}	44.4 ^{2/}	44.0 ^{***}	<0.8
	22:50-22:55 HOUR	46.6 ^{2/}	46.4 ^{***}	36.1 ^{2/}	44.0 ^{***}	<0.8
	22:55-23:00 HOUR	47.3 ^{2/}	46.4 ^{***}	43.0 ^{2/}	44.0 ^{***}	<0.8
	23:00-23:05 HOUR	44.4 ^{2/}	41.5 ^{***}	44.3 ^{2/}	36.1 ^{***}	8.2
	23:05-23:10 HOUR	44.0 ^{2/}	41.5 ^{***}	43.4 ^{2/}	36.1 ^{***}	7.3
	23:10-23:15 HOUR	40.7 ^{2/}	41.5 ^{***}	<0.8 ^{2/}	36.1 ^{***}	<0.8
	23:15-23:20 HOUR	46.6 ^{2/}	44.6 ^{***}	45.3 ^{2/}	37.5 ^{***}	7.8
	23:20-23:25 HOUR	45.3 ^{2/}	44.6 ^{***}	40.0 ^{2/}	37.5 ^{***}	2.5
	23:25-23:30 HOUR	42.1 ^{2/}	44.6 ^{***}	<0.8 ^{2/}	37.5 ^{***}	<0.8
	23:30-23:35 HOUR	44.1 ^{2/}	40.6 ^{***}	44.5 ^{2/}	38.4 ^{***}	6.1
	23:35-23:40 HOUR	42.3 ^{2/}	40.6 ^{***}	40.4 ^{2/}	38.4 ^{***}	2.0
	23:40-23:45 HOUR	40.1 ^{2/}	40.6 ^{***}	<0.8 ^{2/}	38.4 ^{***}	<0.8
	23:45-23:50 HOUR	42.9 ^{2/}	39.1 ^{***}	43.6 ^{2/}	37.2 ^{***}	6.4
	23:50-23:55 HOUR	41.3 ^{2/}	39.1 ^{***}	40.3 ^{2/}	37.2 ^{***}	3.1
SEPTEMBER 26, 2023 T23AT318-0013	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	40.6 ^{2/}	42.8 ^{***}	<0.8 ^{2/}	37.5 ^{***}	<0.8
	00:05-00:10 HOUR	44.6 ^{2/}	42.8 ^{***}	42.9 ^{2/}	37.5 ^{***}	5.4
	00:10-00:15 HOUR	43.0 ^{2/}	42.8 ^{***}	32.5 ^{2/}	37.5 ^{***}	<0.8
	00:15-00:20 HOUR	49.4 ^{2/}	49.2 ^{***}	38.9 ^{2/}	38.6 ^{***}	8.6
	00:20-00:25 HOUR	50.4 ^{2/}	49.2 ^{***}	47.2 ^{2/}	38.6 ^{***}	4.5
	00:25-00:30 HOUR	49.7 ^{2/}	49.2 ^{***}	44.1 ^{2/}	37.1 ^{***}	7.8
	00:30-00:35 HOUR	45.8 ^{2/}	43.5 ^{***}	44.9 ^{2/}	37.1 ^{***}	1.1
	00:35-00:40 HOUR	44.1 ^{2/}	43.5 ^{***}	38.2 ^{2/}	37.1 ^{***}	7.3
	00:40-00:45 HOUR	45.6 ^{2/}	43.5 ^{***}	44.4 ^{2/}	38.4 ^{***}	3.5
	00:45-00:50 HOUR	46.2 ^{2/}	45.3 ^{***}	41.9 ^{2/}	38.4 ^{***}	4.5
	00:50-00:55 HOUR	46.4 ^{2/}	45.3 ^{***}	42.9 ^{2/}	38.4 ^{***}	7.3
	00:55-01:00 HOUR	47.2 ^{2/}	45.3 ^{***}	45.7 ^{2/}	38.4 ^{***}	5.9
	01:00-01:05 HOUR	51.2 ^{2/}	50.2 ^{***}	47.3 ^{2/}	41.4 ^{***}	7.6
	01:05-01:10 HOUR	51.6 ^{2/}	50.2 ^{***}	49.0 ^{2/}	41.4 ^{***}	<0.8
	01:10-01:15 HOUR	49.8 ^{2/}	50.2 ^{***}	<0.8 ^{2/}	41.4 ^{***}	2.4
SEPTEMBER 25, 2023 T23AT318-0013	DAY TIME ^{1/}					
	07:00-08:00 HOUR	53.2 ^{2/}	52.1 ^{**}	46.7 ^{2/}	42.8 ^{**}	3.9
	08:00-09:00 HOUR	56.1 ^{2/}	52.9 ^{**}	53.3 ^{2/}	48.5 ^{**}	3.8
	09:00-10:00 HOUR	51.8 ^{2/}	49.9 ^{**}	47.3 ^{2/}	43.5 ^{**}	4.0
	10:00-11:00 HOUR	52.0 ^{2/}	50.4 ^{**}	46.9 ^{2/}	42.9 ^{**}	6.2
	11:00-12:00 HOUR	55.4 ^{2/}	52.9 ^{**}	51.8 ^{2/}	45.6 ^{**}	8.1
	12:00-13:00 HOUR	52.6 ^{2/}	48.9 ^{**}	50.2 ^{2/}	42.1 ^{**}	<0.8
	13:00-14:00 HOUR	51.8 ^{2/}	51.4 ^{**}	41.2 ^{2/}	42.0 ^{**}	8.6
	14:00-15:00 HOUR	52.9 ^{2/}	49.0 ^{**}	50.6 ^{2/}	42.0 ^{**}	3.1
	15:00-16:00 HOUR	49.4 ^{2/}	47.5 ^{**}	44.9 ^{2/}	41.8 ^{**}	8.4
	16:00-17:00 HOUR	58.1 ^{2/}	54.4 ^{**}	55.7 ^{2/}	44.0 ^{**}	8.8
	17:00-18:00 HOUR	55.5 ^{2/}	52.6 ^{**}	52.4 ^{2/}	40.1 ^{**}	2.4
	18:00-19:00 HOUR	50.1 ^{2/}	43.8 ^{**}	48.9 ^{2/}	40.9 ^{**}	6.3
	19:00-20:00 HOUR	52.2 ^{2/}	51.6 ^{**}	43.3 ^{2/}	43.8 ^{**}	<0.8
	20:00-21:00 HOUR	51.6 ^{2/}	46.2 ^{**}	50.1 ^{2/}	42.5 ^{**}	<0.8
	21:00-22:00 HOUR	46.2 ^{2/}	43.7 ^{**}	42.6 ^{2/}	35.2 ^{**}	<0.8
SEPTEMBER 25, 2023 T23AT318-0013	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	45.9 ^{2/}	45.8 ^{***}	32.5 ^{2/}	43.6 ^{***}	<0.8
	22:05-22:10 HOUR	49.0 ^{2/}	45.8 ^{***}	49.2 ^{2/}	43.6 ^{***}	<0.8
	22:10-22:15 HOUR	45.5 ^{2/}	45.8 ^{***}	<0.8 ^{2/}	43.6 ^{***}	7.3
	22:15-22:20 HOUR	45.7 ^{2/}	41.8 ^{***}	46.4 ^{2/}	39.1 ^{***}	8.0
	22:20-22:25 HOUR	46.1 ^{2/}	41.8 ^{***}	47.1 ^{2/}	39.1 ^{***}	<0.8
	22:25-22:30 HOUR	42.2 ^{2/}	41.8 ^{***}	34.6 ^{2/}	39.1 ^{***}	2.9
	22:30-22:35 HOUR	39.8 ^{2/}	38.0 ^{***}	38.1 ^{2/}	35.2 ^{***}	<0.8
	22:35-22:40 HOUR	38.8 ^{2/}	38.0 ^{***}	34.1 ^{2/}	35.2 ^{***}	<0.8

DATE	TIME*	RESULT (dB(A))				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 25, 2023 T23AT318-0012	NIGHT TIME ^{2/}					
	04:30-04:35 HOUR	46.3 ^{2/}	44.9 ^{***}	43.7 ^{2/}	43.3 ^{***}	<0.8
	04:35-04:40 HOUR	45.2 ^{2/}	44.9 ^{***}	36.4 ^{2/}	43.3 ^{***}	<0.8
	04:40-04:45 HOUR	45.0 ^{2/}	44.9 ^{***}	31.6 ^{2/}	43.3 ^{***}	<0.8
	04:45-04:50 HOUR	45.5 ^{2/}	43.7 ^{***}	43.8 ^{2/}	42.3 ^{***}	5.1
	04:50-04:55 HOUR	47.1 ^{2/}	43.7 ^{***}	47.4 ^{2/}	42.3 ^{***}	<0.8
	04:55-05:00 HOUR	44.8 ^{2/}	43.7 ^{***}	41.3 ^{2/}	42.3 ^{***}	<0.8
	05:00-05:05 HOUR	44.7 ^{2/}	46.0 ^{***}	<0.8 ^{2/}	42.6 ^{***}	<0.8
	05:05-05:10 HOUR	46.6 ^{2/}	46.0 ^{***}	40.7 ^{2/}	42.6 ^{***}	<0.8
	05:10-05:15 HOUR	45.4 ^{2/}	46.0 ^{***}	<0.8 ^{2/}	42.2 ^{***}	7.0
	05:15-05:20 HOUR	48.9 ^{2/}	45.5 ^{***}	49.2 ^{2/}	42.2 ^{***}	5.4
	05:20-05:25 HOUR	48.1 ^{2/}	45.5 ^{***}	47.6 ^{2/}	42.2 ^{***}	0.9
	05:25-05:30 HOUR	46.6 ^{2/}	45.5 ^{***}	43.1 ^{2/}	43.1 ^{***}	<0.8
	05:30-05:35 HOUR	47.8 ^{2/}	47.5 ^{***}	39.0 ^{2/}	43.1 ^{***}	3.2
	05:35-05:40 HOUR	48.9 ^{2/}	47.5 ^{***}	46.3 ^{2/}	43.1 ^{***}	3.2
	05:40-05:45 HOUR	48.9 ^{2/}	47.5 ^{***}	46.3 ^{2/}	43.8 ^{***}	<0.8
SEPTEMBER 25, 2023 T23AT318-0013	DAY TIME ^{1/}					
	06:00-07:00 HOUR	55.3 ^{2/}	54.4 ^{**}	48.0 ^{2/}	47.4 ^{**}	<0.8
	07:00-08:00 HOUR	53.2 ^{2/}	52.1 ^{**}	46.7 ^{2/}	42.8 ^{**}	3.9
	08:00-09:00 HOUR	56.1 ^{2/}	52.9 ^{**}	53.3 ^{2/}	48.5 ^{**}	3.8
	09:00-10:00 HOUR	51.8 ^{2/}	49.9 ^{**}	47.3 ^{2/}	43.5 ^{**}	4.0
	10:00-11:00 HOUR	52.0 ^{2/}	50.4 ^{**}	46.9 ^{2/}	42.9 ^{**}	6.2
	11:00-12:00 HOUR	55.4 ^{2/}	52.9 ^{**}	51.8 ^{2/}	45.6 ^{**}	8.1
	12:00-13:00 HOUR	52.6 ^{2/}	48.9 ^{**}	50.2 ^{2/}	42.1 ^{**}	<0.8
	13:00-14:00 HOUR	51.8 ^{2/}	51.4 ^{**}	41.2 ^{2/}	42.0 ^{**}	8.6
	14:00-15:00 HOUR	52.9 ^{2/}	49.0 ^{**}	50.6 ^{2/}	42.0 ^{**}	3.1
	15:00-16:00 HOUR	49.4 ^{2/}	47.5 ^{**}	44.9 ^{2/}	41.8 ^{**}	8.4
	16:00-17:00 HOUR	58.1 ^{2/}	54.4 ^{**}	55.7 ^{2/}	44.0 ^{**}	8.8
	17:00-18:00 HOUR	55.5 ^{2/}	52.6 ^{**}	52.4 ^{2/}	40.1 ^{**}	2.4
	18:00-19:00 HOUR	50.1 ^{2/}	43.8 ^{**}	48.9 ^{2/}	40.9 ^{**}	6.3
	19:00-20:00 HOUR	52.2 ^{2/}	51.6 ^{**}	43.3 ^{2/}	43.8 ^{**}	<0.8
	20:00-21:00 HOUR	51.6 ^{2/}	46.2 ^{**}	50.1 ^{2/}	42.5 ^{**}	<0.8
SEPTEMBER 25, 2023 T23AT318-0013	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	45.9 ^{2/}	45.8 ^{***}	32.5 ^{2/}	43.6 ^{***}	<0.8
	22:05-22:10 HOUR	49.0 ^{2/}	45.8 ^{***}	49.2 ^{2/}	43.6 ^{***}	<0.8
	22:10-22:15 HOUR	45.5 ^{2/}	45.8 ^{***}	<0.8 ^{2/}	43.6 ^{***}	7.3
	22:15-22:20 HOUR	45.7 ^{2/}	41.8 ^{***}	46.4 ^{2/}	39.1 ^{***}	8.0
	22:20-22:25 HOUR	46.1 ^{2/}	41.8 ^{***}	47.1 ^{2/}	39.1 ^{***}	<0.8
	22:25-22:30 HOUR	42.2 ^{2/}	41.8 ^{***}	34.6 ^{2/}	39.1 ^{***}	2.9
	22:30-22:35 HOUR	39.8 ^{2/}	38.0 ^{***}	38.1 ^{2/}	35.2 ^{***}	<0.8
	22:35-22:40 HOUR	38.8 ^{2/}	38.0 ^{***}	34.1 ^{2/}	35.2 ^{***}	<0.8

DATE	TIME*	RESULT (dB(A)) ผลการวัดตามตำแหน่ง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 26, 2023 TZ3AT318-0013	DAY TIME ^{1/} 06:00-07:00 HOUR	57.2 ^{1/}	51.0 ^{1/}	56.0 ^{1/}	47.4 ^{1/}	8.6
	DAY TIME ^{1/} 07:00-08:00 HOUR	57.0 ^{1/}	54.9 ^{1/}	52.8 ^{1/}	51.1 ^{1/}	1.7
	08:00-09:00 HOUR	55.9 ^{1/}	53.8 ^{1/}	51.7 ^{1/}	50.5 ^{1/}	1.2
	09:00-10:00 HOUR	56.6 ^{1/}	55.0 ^{1/}	51.5 ^{1/}	53.4 ^{1/}	<0.8
	10:00-11:00 HOUR	62.6 ^{1/}	60.2 ^{1/}	58.9 ^{1/}	53.6 ^{1/}	5.3
	11:00-12:00 HOUR	53.1 ^{1/}	50.4 ^{1/}	49.8 ^{1/}	46.1 ^{1/}	3.7
	12:00-13:00 HOUR	52.2 ^{1/}	49.4 ^{1/}	49.0 ^{1/}	44.5 ^{1/}	4.5
	13:00-14:00 HOUR	58.2 ^{1/}	56.6 ^{1/}	53.1 ^{1/}	51.8 ^{1/}	1.3
	14:00-15:00 HOUR	53.8 ^{1/}	51.3 ^{1/}	50.2 ^{1/}	43.7 ^{1/}	6.5
	15:00-16:00 HOUR	52.8 ^{1/}	48.8 ^{1/}	50.6 ^{1/}	42.1 ^{1/}	8.5
	16:00-17:00 HOUR	49.4 ^{1/}	46.9 ^{1/}	48.4 ^{1/}	41.6 ^{1/}	6.8
	17:00-18:00 HOUR	50.7 ^{1/}	47.1 ^{1/}	45.5 ^{1/}	38.8 ^{1/}	6.7
	18:00-19:00 HOUR	47.2 ^{1/}	44.9 ^{1/}	43.3 ^{1/}	41.3 ^{1/}	2.0
	19:00-20:00 HOUR	43.8 ^{1/}	41.8 ^{1/}	39.5 ^{1/}	36.3 ^{1/}	3.2
SEPTEMBER 27, 2023 TZ3AT318-0014	20:00-21:00 HOUR	44.5 ^{1/}	40.9 ^{1/}	42.0 ^{1/}	36.5 ^{1/}	5.5
	21:00-22:00 HOUR	49.9 ^{1/}	44.8 ^{1/}	48.3 ^{1/}	42.0 ^{1/}	6.3
	NIGHT TIME ^{2/} 22:00-22:05 HOUR	45.7 ^{2/}	42.8 ^{1/}	45.6 ^{2/}	41.7 ^{1/}	3.9
	22:05-22:10 HOUR	43.7 ^{2/}	42.8 ^{1/}	39.4 ^{2/}	41.7 ^{1/}	<0.8
	22:10-22:15 HOUR	43.7 ^{2/}	42.8 ^{1/}	39.4 ^{2/}	41.7 ^{1/}	<0.8
	22:15-22:20 HOUR	44.9 ^{2/}	47.2 ^{1/}	<0.8 ^{1/}	43.1 ^{1/}	<0.8
	22:20-22:25 HOUR	44.4 ^{2/}	47.2 ^{1/}	<0.8 ^{1/}	43.1 ^{1/}	<0.8
	22:25-22:30 HOUR	47.4 ^{2/}	47.2 ^{1/}	36.9 ^{2/}	43.1 ^{1/}	<0.8
	22:30-22:35 HOUR	47.1 ^{2/}	44.9 ^{1/}	46.1 ^{2/}	42.8 ^{1/}	3.3
	22:35-22:40 HOUR	45.8 ^{2/}	44.9 ^{1/}	41.5 ^{2/}	42.8 ^{1/}	<0.8
	22:40-22:45 HOUR	47.9 ^{2/}	44.9 ^{1/}	47.9 ^{2/}	42.8 ^{1/}	5.1
	22:45-22:50 HOUR	44.7 ^{2/}	44.9 ^{1/}	41.5 ^{2/}	42.4 ^{1/}	<0.8
	22:50-22:55 HOUR	44.7 ^{2/}	43.5 ^{1/}	41.5 ^{2/}	42.4 ^{1/}	<0.8
	22:55-23:00 HOUR	44.7 ^{2/}	43.5 ^{1/}	41.5 ^{2/}	42.4 ^{1/}	<0.8
SEPTEMBER 27, 2023 TZ3AT318-0014	23:00-23:05 HOUR	45.0 ^{2/}	42.9 ^{1/}	43.8 ^{2/}	41.2 ^{1/}	2.6
	23:05-23:10 HOUR	45.2 ^{2/}	42.9 ^{1/}	44.3 ^{2/}	41.2 ^{1/}	3.1
	23:15-23:20 HOUR	45.0 ^{2/}	41.9 ^{1/}	40.5 ^{2/}	41.2 ^{1/}	<0.8
	23:20-23:25 HOUR	44.0 ^{2/}	42.9 ^{1/}	40.5 ^{2/}	41.2 ^{1/}	<0.8
	23:25-23:30 HOUR	43.6 ^{2/}	41.9 ^{1/}	40.3 ^{2/}	41.2 ^{1/}	<0.8
	23:30-23:35 HOUR	42.9 ^{2/}	41.9 ^{1/}	40.3 ^{2/}	41.2 ^{1/}	<0.8
	23:35-23:40 HOUR	44.4 ^{2/}	44.3 ^{1/}	31.0 ^{2/}	40.6 ^{1/}	<0.8
	23:40-23:45 HOUR	47.5 ^{2/}	44.3 ^{1/}	47.7 ^{2/}	40.6 ^{1/}	7.1
	23:45-23:50 HOUR	46.4 ^{2/}	44.8 ^{1/}	44.3 ^{2/}	41.4 ^{1/}	2.9
	23:50-23:55 HOUR	42.8 ^{2/}	44.8 ^{1/}	<0.8 ^{2/}	41.4 ^{1/}	<0.8
	23:55-00:00 HOUR	47.9 ^{2/}	44.8 ^{1/}	48.0 ^{2/}	41.4 ^{1/}	6.6
	NIGHT TIME ^{2/} 00:00-00:05 HOUR	43.3 ^{2/}	41.1 ^{1/}	42.3 ^{2/}	40.3 ^{1/}	2.0
	00:05-00:10 HOUR	42.5 ^{2/}	41.1 ^{1/}	39.9 ^{2/}	40.3 ^{1/}	<0.8

DATE	TIME*	RESULT (dB(A)) ผลการวัดตามตำแหน่ง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 26, 2023 TZ3AT318-0013	NIGHT TIME ^{2/} 02:20-02:25 HOUR	54.9 ^{2/}	55.0 ^{1/}	<0.8 ^{2/}	49.4 ^{1/}	<0.8
	02:25-02:30 HOUR	55.9 ^{2/}	55.0 ^{1/}	51.6 ^{2/}	49.4 ^{1/}	2.2
	02:30-02:35 HOUR	57.7 ^{2/}	54.4 ^{1/}	58.0 ^{2/}	49.2 ^{1/}	8.8
	02:35-02:40 HOUR	56.1 ^{2/}	54.4 ^{1/}	54.2 ^{2/}	49.2 ^{1/}	5.0
	02:40-02:45 HOUR	55.5 ^{2/}	54.4 ^{1/}	52.0 ^{2/}	49.2 ^{1/}	2.8
	02:45-02:50 HOUR	54.9 ^{2/}	55.0 ^{1/}	<0.8 ^{2/}	47.0 ^{1/}	<0.8
	02:50-02:55 HOUR	55.5 ^{2/}	55.0 ^{1/}	48.9 ^{2/}	47.0 ^{1/}	1.9
	02:55-03:00 HOUR	53.7 ^{2/}	55.0 ^{1/}	<0.8 ^{2/}	47.0 ^{1/}	<0.8
	03:00-03:05 HOUR	48.2 ^{2/}	46.3 ^{1/}	46.7 ^{2/}	45.0 ^{1/}	1.7
	03:05-03:10 HOUR	46.9 ^{2/}	46.3 ^{1/}	41.0 ^{2/}	45.0 ^{1/}	<0.8
	03:10-03:15 HOUR	46.2 ^{2/}	46.3 ^{1/}	<0.8 ^{2/}	45.0 ^{1/}	<0.8
	03:15-03:20 HOUR	47.1 ^{2/}	46.5 ^{1/}	41.2 ^{2/}	43.9 ^{1/}	<0.8
	03:20-03:25 HOUR	51.1 ^{2/}	46.5 ^{1/}	52.3 ^{2/}	43.9 ^{1/}	8.4
	03:25-03:30 HOUR	45.7 ^{2/}	46.5 ^{1/}	<0.8 ^{2/}	43.9 ^{1/}	<0.8
SEPTEMBER 27, 2023 TZ3AT318-0014	03:30-03:35 HOUR	47.4 ^{2/}	45.1 ^{1/}	46.5 ^{2/}	44.2 ^{1/}	2.3
	03:35-03:40 HOUR	46.9 ^{2/}	45.1 ^{1/}	45.2 ^{2/}	44.2 ^{1/}	1.0
	03:40-03:45 HOUR	46.5 ^{2/}	45.1 ^{1/}	43.9 ^{2/}	44.2 ^{1/}	<0.8
	03:45-03:50 HOUR	46.3 ^{2/}	44.4 ^{1/}	44.8 ^{2/}	42.9 ^{1/}	1.9
	03:50-03:55 HOUR	45.8 ^{2/}	44.4 ^{1/}	43.2 ^{2/}	42.9 ^{1/}	<0.8
	03:55-04:00 HOUR	47.2 ^{2/}	44.4 ^{1/}	47.0 ^{2/}	42.9 ^{1/}	4.1
	04:00-04:05 HOUR	46.0 ^{2/}	43.7 ^{1/}	45.1 ^{2/}	42.7 ^{1/}	2.4
	04:05-04:10 HOUR	45.4 ^{2/}	43.7 ^{1/}	43.5 ^{2/}	42.7 ^{1/}	0.8
	04:10-04:15 HOUR	45.3 ^{2/}	43.7 ^{1/}	43.2 ^{2/}	42.7 ^{1/}	<0.8
	04:15-04:20 HOUR	45.3 ^{2/}	44.5 ^{1/}	40.6 ^{2/}	42.3 ^{1/}	<0.8
	04:20-04:25 HOUR	45.1 ^{2/}	44.5 ^{1/}	39.2 ^{2/}	42.3 ^{1/}	<0.8
	04:25-04:30 HOUR	44.8 ^{2/}	44.5 ^{1/}	36.0 ^{2/}	42.3 ^{1/}	<0.8
	04:30-04:35 HOUR	48.5 ^{2/}	48.4 ^{1/}	35.1 ^{2/}	42.9 ^{1/}	<0.8
	04:35-04:40 HOUR	48.5 ^{2/}	48.4 ^{1/}	35.1 ^{2/}	42.9 ^{1/}	<0.8
SEPTEMBER 27, 2023 TZ3AT318-0014	04:40-04:45 HOUR	51.3 ^{2/}	48.4 ^{1/}	51.2 ^{2/}	42.9 ^{1/}	8.3
	04:45-04:50 HOUR	49.5 ^{2/}	49.3 ^{1/}	39.0 ^{2/}	41.2 ^{1/}	<0.8
	04:50-04:55 HOUR	50.0 ^{2/}	49.3 ^{1/}	44.7 ^{2/}	41.2 ^{1/}	3.5
	04:55-05:00 HOUR	51.3 ^{2/}	49.3 ^{1/}	50.0 ^{2/}	41.2 ^{1/}	8.8
	05:00-05:05 HOUR	49.8 ^{2/}	49.3 ^{1/}	43.2 ^{2/}	42.6 ^{1/}	<0.8
	05:05-05:10 HOUR	50.7 ^{2/}	49.3 ^{1/}	48.1 ^{2/}	42.6 ^{1/}	5.5
	05:10-05:15 HOUR	49.7 ^{2/}	49.3 ^{1/}	42.1 ^{2/}	42.6 ^{1/}	<0.8
	05:15-05:20 HOUR	49.4 ^{2/}	49.1 ^{1/}	40.6 ^{2/}	43.1 ^{1/}	<0.8
	05:20-05:25 HOUR	50.5 ^{2/}	49.1 ^{1/}	47.9 ^{2/}	43.1 ^{1/}	4.8
	05:25-05:30 HOUR	50.6 ^{2/}	49.1 ^{1/}	46.3 ^{2/}	43.1 ^{1/}	5.2
	05:30-05:35 HOUR	53.7 ^{2/}	51.3 ^{1/}	53.0 ^{2/}	44.5 ^{1/}	8.5
	05:35-05:40 HOUR	52.2 ^{2/}	51.3 ^{1/}	47.9 ^{2/}	44.5 ^{1/}	3.4
	05:40-05:45 HOUR	53.1 ^{2/}	51.3 ^{1/}	51.4 ^{2/}	44.5 ^{1/}	6.9
	05:45-05:50 HOUR	51.4 ^{2/}	51.1 ^{1/}	42.6 ^{2/}	45.3 ^{1/}	<0.8
SEPTEMBER 27, 2023 TZ3AT318-0014	05:50-05:55 HOUR	52.6 ^{2/}	51.1 ^{1/}	50.3 ^{2/}	45.3 ^{1/}	5.0
	05:55-06:00 HOUR	52.1 ^{2/}	51.1 ^{1/}	48.2 ^{2/}	45.3 ^{1/}	2.9

DATE	TIME*	RESULT (dB(A)) ผลการวัดระดับเสียง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 27, 2023 T23AT318-0014	NIGHT TIME ²⁾					
	03:50-03:55 HOUR	43.8 ²⁾	41.8 ***	42.5 ²⁾	40.5 ***	2.0
	03:55-04:00 HOUR	42.3 ²⁾	41.8 ***	35.7 ²⁾	40.5 ***	<0.8
	04:00-04:05 HOUR	47.5 ²⁾	43.6 ***	48.2 ²⁾	39.6 ***	8.6
	04:05-04:10 HOUR	45.6 ²⁾	43.6 ***	44.3 ²⁾	39.6 ***	4.7
	04:10-04:15 HOUR	47.0 ²⁾	43.6 ***	47.3 ²⁾	39.6 ***	7.7
	04:15-04:20 HOUR	46.7 ²⁾	41.4 ***	48.2 ²⁾	40.4 ***	7.8
	04:20-04:25 HOUR	42.6 ²⁾	41.4 ***	39.4 ²⁾	40.4 ***	<0.8
	04:25-04:30 HOUR	42.2 ²⁾	41.4 ***	37.5 ²⁾	40.4 ***	<0.8
	04:30-04:35 HOUR	42.0 ²⁾	41.9 ***	28.6 ²⁾	41.1 ***	<0.8
	04:35-04:40 HOUR	42.5 ²⁾	41.9 ***	36.6 ²⁾	41.1 ***	<0.8
	04:40-04:45 HOUR	42.4 ²⁾	41.9 ***	35.8 ²⁾	41.1 ***	<0.8
	04:45-04:50 HOUR	42.6 ²⁾	40.5 ***	41.4 ²⁾	39.6 ***	1.8
	04:50-04:55 HOUR	42.7 ²⁾	40.5 ***	41.7 ²⁾	39.6 ***	2.1
	04:55-05:00 HOUR	42.6 ²⁾	40.5 ***	41.4 ²⁾	39.6 ***	1.8
	05:00-05:05 HOUR	42.0 ²⁾	41.8 ***	31.5 ²⁾	40.2 ***	<0.8
	05:05-05:10 HOUR	42.0 ²⁾	41.8 ***	31.5 ²⁾	40.2 ***	<0.8
	05:10-05:15 HOUR	45.0 ²⁾	41.8 ***	45.2 ²⁾	40.2 ***	5.0
	05:15-05:20 HOUR	42.3 ²⁾	41.8 ***	35.7 ²⁾	40.5 ***	<0.8
	05:20-05:25 HOUR	43.0 ²⁾	41.8 ***	39.8 ²⁾	40.5 ***	<0.8
	05:25-05:30 HOUR	43.2 ²⁾	41.8 ***	40.6 ²⁾	40.5 ***	<0.8
	05:30-05:35 HOUR	46.8 ²⁾	45.5 ***	43.9 ²⁾	44.0 ***	<0.8
	05:35-05:40 HOUR	46.7 ²⁾	45.5 ***	43.5 ²⁾	44.0 ***	<0.8
	05:40-05:45 HOUR	49.7 ²⁾	45.5 ***	50.6 ²⁾	44.0 ***	6.6
	05:45-05:50 HOUR	48.6 ²⁾	47.0 ***	46.5 ²⁾	46.0 ***	<0.8
	05:50-05:55 HOUR	48.4 ²⁾	47.0 ***	45.8 ²⁾	46.0 ***	<0.8
	05:55-06:00 HOUR	49.8 ²⁾	47.0 ***	49.6 ²⁾	46.0 ***	3.6
SEPTEMBER 27, 2023 T23AT318-0015	DAY TIME ¹⁾					
	06:00-07:00 HOUR	54.2 ¹⁾	48.1 **	53.0 ¹⁾	47.2 **	5.8
	07:00-08:00 HOUR	57.6 ¹⁾	55.6 **	53.3 ¹⁾	52.8 **	<0.8
	08:00-09:00 HOUR	52.9 ¹⁾	48.9 **	50.7 ¹⁾	46.2 **	4.5
	09:00-10:00 HOUR	54.2 ¹⁾	51.8 **	50.5 ¹⁾	45.7 **	4.8
	10:00-11:00 HOUR	55.3 ¹⁾	50.3 **	53.6 ¹⁾	46.9 **	6.7
	11:00-12:00 HOUR	53.4 ¹⁾	51.1 **	49.5 ¹⁾	46.6 **	2.9
	12:00-13:00 HOUR	54.6 ¹⁾	51.8 **	51.8 ¹⁾	45.1 **	6.7
	13:00-14:00 HOUR	56.6 ¹⁾	54.9 **	51.7 ¹⁾	43.7 **	8.0
	14:00-15:00 HOUR	52.8 ¹⁾	47.6 **	51.2 ¹⁾	43.1 **	8.1
	15:00-16:00 HOUR	47.5 ¹⁾	47.1 **	36.9 ¹⁾	39.3 **	<0.8
	16:00-17:00 HOUR	48.9 ¹⁾	44.9 **	46.7 ¹⁾	39.0 **	7.7
	17:00-18:00 HOUR	51.5 ¹⁾	45.9 **	50.1 ¹⁾	42.6 **	7.5
	18:00-19:00 HOUR	49.9 ¹⁾	48.3 **	44.8 ¹⁾	43.4 **	1.4
	19:00-20:00 HOUR	52.0 ¹⁾	49.0 **	49.0 ¹⁾	44.0 **	5.0
	20:00-21:00 HOUR	52.7 ¹⁾	51.6 **	46.2 ¹⁾	46.9 **	<0.8
	21:00-22:00 HOUR	51.1 ¹⁾	48.3 **	47.9 ¹⁾	45.7 **	2.2
	NIGHT TIME ²⁾					

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO., LTD.

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2023-U085592

11/14

DATE	TIME*	RESULT (dB(A)) ผลการวัดระดับเสียง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 27, 2023 T23AT318-0014	NIGHT TIME ²⁾					
	00:10-00:15 HOUR	42.2 ²⁾	41.1 ***	38.7 ²⁾	40.3 ***	<0.8
	00:15-00:20 HOUR	42.3 ²⁾	41.9 ***	34.7 ²⁾	40.9 ***	<0.8
	00:20-00:25 HOUR	42.4 ²⁾	41.9 ***	35.8 ²⁾	40.9 ***	<0.8
	00:25-00:30 HOUR	43.1 ²⁾	41.9 ***	34.7 ²⁾	40.9 ***	<0.8
	00:30-00:35 HOUR	43.1 ²⁾	41.3 ***	41.4 ²⁾	40.0 ***	1.4
	00:35-00:40 HOUR	42.8 ²⁾	41.3 ***	40.5 ²⁾	40.0 ***	<0.8
	00:40-00:45 HOUR	42.1 ²⁾	41.3 ***	37.4 ²⁾	40.0 ***	<0.8
	00:45-00:50 HOUR	42.7 ²⁾	41.2 ***	40.4 ²⁾	39.9 ***	<0.8
	00:50-00:55 HOUR	43.1 ²⁾	41.2 ***	41.6 ²⁾	39.9 ***	1.7
	00:55-01:00 HOUR	41.6 ²⁾	41.2 ***	34.0 ²⁾	39.9 ***	<0.8
	01:00-01:05 HOUR	41.9 ²⁾	40.2 ***	40.0 ²⁾	39.2 ***	0.8
	01:05-01:10 HOUR	42.0 ²⁾	40.2 ***	40.3 ²⁾	39.2 ***	1.1
	01:10-01:15 HOUR	42.0 ²⁾	40.2 ***	40.3 ²⁾	39.2 ***	1.1
	01:15-01:20 HOUR	41.5 ²⁾	41.6 ***	<0.8 ²⁾	39.3 ***	<0.8
	01:20-01:25 HOUR	45.8 ²⁾	41.6 ***	46.7 ²⁾	39.3 ***	7.4
	01:25-01:30 HOUR	41.0 ²⁾	41.6 ***	<0.8 ²⁾	39.3 ***	<0.8
	01:30-01:35 HOUR	44.0 ²⁾	42.9 ***	40.5 ²⁾	40.2 ***	<0.8
	01:35-01:40 HOUR	43.8 ²⁾	42.9 ***	39.5 ²⁾	40.2 ***	<0.8
	01:40-01:45 HOUR	43.6 ²⁾	42.9 ***	38.3 ²⁾	40.2 ***	<0.8
	01:45-01:50 HOUR	43.8 ²⁾	42.9 ***	39.5 ²⁾	39.6 ***	<0.8
	01:50-01:55 HOUR	42.0 ²⁾	42.9 ***	<0.8 ²⁾	39.6 ***	<0.8
	01:55-02:00 HOUR	45.5 ²⁾	42.9 ***	45.0 ²⁾	39.6 ***	5.4
	02:00-02:05 HOUR	42.3 ²⁾	42.5 ***	<0.8 ²⁾	40.5 ***	<0.8
	02:05-02:10 HOUR	46.2 ²⁾	42.5 ***	46.8 ²⁾	40.5 ***	6.3
	02:10-02:15 HOUR	44.7 ²⁾	42.5 ***	43.7 ²⁾	40.5 ***	3.2
	02:15-02:20 HOUR	42.8 ²⁾	42.4 ***	35.2 ²⁾	40.3 ***	<0.8
	02:20-02:25 HOUR	42.5 ²⁾	42.4 ***	29.1 ²⁾	40.3 ***	<0.8
	02:25-02:30 HOUR	43.4 ²⁾	42.4 ***	39.5 ²⁾	40.3 ***	<0.8
	02:30-02:35 HOUR	50.5 ²⁾	48.8 ***	48.6 ²⁾	40.9 ***	7.7
	02:35-02:40 HOUR	50.8 ²⁾	48.8 ***	49.5 ²⁾	40.9 ***	8.6
	02:40-02:45 HOUR	50.8 ²⁾	48.8 ***	49.5 ²⁾	40.9 ***	8.6
	02:45-02:50 HOUR	43.4 ²⁾	42.0 ***	40.8 ²⁾	40.2 ***	<0.8
	02:50-02:55 HOUR	42.5 ²⁾	42.0 ***	35.9 ²⁾	40.2 ***	<0.8
	02:55-03:00 HOUR	42.7 ²⁾	42.0 ***	37.4 ²⁾	40.2 ***	<0.8
	03:00-03:05 HOUR	43.4 ²⁾	42.8 ***	37.5 ²⁾	40.7 ***	<0.8
	03:05-03:10 HOUR	42.9 ²⁾	42.8 ***	29.5 ²⁾	40.7 ***	<0.8
	03:10-03:15 HOUR	43.4 ²⁾	42.8 ***	37.5 ²⁾	40.7 ***	<0.8
	03:15-03:20 HOUR	42.4 ²⁾	42.2 ***	31.9 ²⁾	40.6 ***	<0.8
	03:20-03:25 HOUR	44.3 ²⁾	42.2 ***	43.1 ²⁾	40.6 ***	2.5
	03:25-03:30 HOUR	44.0 ²⁾	42.2 ***	42.3 ²⁾	40.6 ***	1.7
	03:30-03:35 HOUR	44.8 ²⁾	40.9 ***	41.3 ²⁾	39.9 ***	1.4
	03:35-03:40 HOUR	42.4 ²⁾	40.9 ***	40.1 ²⁾	39.9 ***	<0.8
	03:40-03:45 HOUR	42.5 ²⁾	40.9 ***	40.4 ²⁾	39.9 ***	<0.8
	03:45-03:50 HOUR	43.1 ²⁾	41.8 ***	40.2 ²⁾	40.5 ***	<0.8

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO., LTD.

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

10/14

2023-U085592

DATE	TIME*	RESULT (dB(A)) ผลการวัดตามตำแหน่ง			
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 28, 2023 TZ3AT318-0015	NIGHT TIME 2/				
	01:40-01:45 HOUR	46.2 ^{2/}	45.8 ***	38.6 ^{2/}	<0.8
	01:45-01:50 HOUR	52.0 ^{2/}	51.1 ***	47.7 ^{2/}	3.0
	01:50-01:55 HOUR	50.0 ^{2/}	51.1 ***	<0.8 ^{2/}	<0.8
	01:55-02:00 HOUR	52.3 ^{2/}	51.1 ***	44.7 ***	4.4
	02:00-02:05 HOUR	54.0 ^{2/}	52.5 ***	51.7 ^{2/}	5.7
	02:05-02:10 HOUR	53.2 ^{2/}	52.5 ***	47.9 ^{2/}	1.9
	02:10-02:15 HOUR	52.8 ^{2/}	52.5 ***	44.0 ^{2/}	<0.8
	02:15-02:20 HOUR	53.7 ^{2/}	53.6 ***	40.3 ^{2/}	<0.8
	02:20-02:25 HOUR	53.8 ^{2/}	53.6 ***	43.3 ^{2/}	<0.8
	02:25-02:30 HOUR	56.1 ^{2/}	53.6 ***	55.5 ^{2/}	6.8
	02:30-02:35 HOUR	54.8 ^{2/}	52.8 ***	53.5 ^{2/}	4.9
	02:35-02:40 HOUR	54.3 ^{2/}	52.8 ***	52.0 ^{2/}	3.4
	02:40-02:45 HOUR	54.2 ^{2/}	52.8 ***	51.6 ^{2/}	3.0
	02:45-02:50 HOUR	53.6 ^{2/}	51.1 ***	50.3 ^{2/}	8.4
	02:50-02:55 HOUR	52.6 ^{2/}	51.1 ***	52.0 ^{2/}	5.7
	02:55-03:00 HOUR	53.2 ^{2/}	51.1 ***	44.6 ***	7.4
	03:00-03:05 HOUR	53.2 ^{2/}	50.2 ***	53.2 ^{2/}	8.5
	03:05-03:10 HOUR	52.8 ^{2/}	50.2 ***	52.3 ^{2/}	7.6
	03:10-03:15 HOUR	52.4 ^{2/}	50.2 ***	51.4 ^{2/}	6.7
SEPTEMBER 28, 2023 TZ3AT318-0015	03:15-03:20 HOUR	52.1 ^{2/}	49.2 ***	48.7 ^{2/}	8.1
	03:20-03:25 HOUR	50.8 ^{2/}	49.2 ***	43.9 ***	4.8
	03:25-03:30 HOUR	51.9 ^{2/}	49.2 ***	51.6 ^{2/}	7.7
	03:30-03:35 HOUR	48.1 ^{2/}	49.3 ***	<0.8 ^{2/}	<0.8
	03:35-03:40 HOUR	51.3 ^{2/}	49.3 ***	50.0 ^{2/}	5.6
	03:40-03:45 HOUR	51.5 ^{2/}	49.3 ***	50.5 ^{2/}	7.1
	03:45-03:50 HOUR	50.6 ^{2/}	49.4 ***	47.4 ^{2/}	5.1
	03:50-03:55 HOUR	51.1 ^{2/}	49.4 ***	49.2 ^{2/}	6.9
	03:55-04:00 HOUR	51.1 ^{2/}	49.4 ***	42.3 ***	6.9
	04:00-04:05 HOUR	52.5 ^{2/}	50.6 ***	44.7 ***	6.3
	04:05-04:10 HOUR	52.3 ^{2/}	50.6 ***	44.7 ***	5.7
	04:10-04:15 HOUR	52.9 ^{2/}	50.6 ***	52.0 ^{2/}	7.3
	04:15-04:20 HOUR	53.7 ^{2/}	51.8 ***	52.2 ^{2/}	8.1
	04:20-04:25 HOUR	51.6 ^{2/}	51.8 ***	44.1 ***	7.5
	04:25-04:30 HOUR	51.9 ^{2/}	51.8 ***	38.5 ^{2/}	<0.8
	04:30-04:35 HOUR	47.1 ^{2/}	47.4 ***	<0.8 ^{2/}	<0.8
	04:35-04:40 HOUR	47.6 ^{2/}	47.4 ***	37.1 ^{2/}	<0.8
	04:40-04:45 HOUR	48.2 ^{2/}	47.4 ***	43.5 ^{2/}	2.2
	04:45-04:50 HOUR	47.6 ^{2/}	48.7 ***	<0.8 ^{2/}	<0.8
	04:50-04:55 HOUR	48.9 ^{2/}	48.7 ***	38.4 ^{2/}	<0.8
SEPTEMBER 28, 2023 TZ3AT318-0015	04:55-05:00 HOUR	50.0 ^{2/}	48.7 ***	47.1 ^{2/}	6.0
	05:00-05:05 HOUR	49.4 ^{2/}	51.3 ***	42.0 ***	<0.8
	05:05-05:10 HOUR	52.8 ^{2/}	51.3 ***	50.5 ^{2/}	8.5
	05:10-05:15 HOUR	50.2 ^{2/}	51.3 ***	<0.8 ^{2/}	<0.8
	05:15-05:20 HOUR	50.5 ^{2/}	50.0 ***	43.9 ^{2/}	<0.8

DATE	TIME*	RESULT (dB(A)) ผลการวัดตามตำแหน่ง			
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 27, 2023 TZ3AT318-0015	NIGHT TIME 2/				
	22:00-22:05 HOUR	47.0 ^{2/}	44.3 ***	46.7 ^{2/}	6.7
	22:05-22:10 HOUR	46.8 ^{2/}	44.3 ***	46.2 ^{2/}	6.2
	22:10-22:15 HOUR	46.9 ^{2/}	44.3 ***	46.4 ^{2/}	6.4
	22:15-22:20 HOUR	45.4 ^{2/}	44.9 ***	38.8 ^{2/}	<0.8
	22:20-22:25 HOUR	46.6 ^{2/}	44.9 ***	44.7 ^{2/}	5.4
	22:25-22:30 HOUR	45.7 ^{2/}	44.9 ***	41.0 ^{2/}	1.7
	22:30-22:35 HOUR	47.0 ^{2/}	45.4 ***	44.9 ^{2/}	7.7
	22:35-22:40 HOUR	47.3 ^{2/}	45.4 ***	45.8 ^{2/}	8.6
	22:40-22:45 HOUR	46.5 ^{2/}	45.4 ***	43.0 ^{2/}	5.8
	22:45-22:50 HOUR	40.1 ^{2/}	42.7 ***	<0.8 ^{2/}	<0.8
	22:50-22:55 HOUR	43.2 ^{2/}	42.7 ***	36.6 ^{2/}	<0.8
	22:55-23:00 HOUR	41.1 ^{2/}	42.7 ***	38.7 ***	<0.8
	23:00-23:05 HOUR	46.3 ^{2/}	41.7 ***	47.5 ^{2/}	8.7
	23:05-23:10 HOUR	45.1 ^{2/}	41.7 ***	45.4 ^{2/}	6.6
	23:10-23:15 HOUR	45.3 ^{2/}	41.7 ***	45.8 ^{2/}	7.0
	23:15-23:20 HOUR	41.4 ^{2/}	40.0 ***	38.8 ^{2/}	1.7
	23:20-23:25 HOUR	39.6 ^{2/}	40.0 ***	<0.8 ^{2/}	<0.8
	23:25-23:30 HOUR	40.3 ^{2/}	40.0 ***	31.5 ^{2/}	<0.8
	23:30-23:35 HOUR	40.7 ^{2/}	43.8 ***	<0.8 ^{2/}	<0.8
	23:35-23:40 HOUR	44.5 ^{2/}	43.8 ***	39.2 ^{2/}	<0.8
SEPTEMBER 28, 2023 TZ3AT318-0015	23:40-23:45 HOUR	44.4 ^{2/}	43.8 ***	38.5 ^{2/}	<0.8
	23:45-23:50 HOUR	45.2 ^{2/}	41.7 ***	45.6 ^{2/}	6.5
	23:50-23:55 HOUR	44.1 ^{2/}	41.7 ***	43.4 ^{2/}	4.3
	23:55-00:00 HOUR	44.5 ^{2/}	41.7 ***	44.3 ^{2/}	5.2
	NIGHT TIME 2/				
	00:00-00:05 HOUR	46.2 ^{2/}	45.8 ***	38.6 ^{2/}	1.3
	00:05-00:10 HOUR	46.0 ^{2/}	45.8 ***	35.5 ^{2/}	<0.8
	00:10-00:15 HOUR	46.3 ^{2/}	45.8 ***	39.7 ^{2/}	2.4
	00:15-00:20 HOUR	44.0 ^{2/}	41.9 ***	42.8 ^{2/}	6.1
	00:20-00:25 HOUR	42.9 ^{2/}	41.9 ***	39.0 ^{2/}	2.3
	00:25-00:30 HOUR	42.8 ^{2/}	41.9 ***	38.5 ^{2/}	1.8
	00:30-00:35 HOUR	43.9 ^{2/}	45.2 ***	<0.8 ^{2/}	<0.8
	00:35-00:40 HOUR	46.6 ^{2/}	45.2 ***	44.0 ^{2/}	6.4
	00:40-00:45 HOUR	45.7 ^{2/}	45.2 ***	39.1 ^{2/}	1.5
	00:45-00:50 HOUR	45.8 ^{2/}	45.6 ***	35.3 ^{2/}	<0.8
	00:50-00:55 HOUR	47.1 ^{2/}	45.6 ***	44.8 ^{2/}	4.8
	00:55-01:00 HOUR	47.7 ^{2/}	45.6 ***	46.5 ^{2/}	6.5
	01:00-01:05 HOUR	46.2 ^{2/}	45.9 ***	37.4 ^{2/}	<0.8
	01:05-01:10 HOUR	46.1 ^{2/}	45.9 ***	35.6 ^{2/}	<0.8
	01:10-01:15 HOUR	46.5 ^{2/}	45.9 ***	40.6 ^{2/}	<0.8
SEPTEMBER 28, 2023 TZ3AT318-0015	01:15-01:20 HOUR	47.9 ^{2/}	45.9 ***	46.6 ^{2/}	3.1
	01:20-01:25 HOUR	45.5 ^{2/}	45.9 ***	<0.8 ^{2/}	<0.8
	01:25-01:30 HOUR	47.4 ^{2/}	45.9 ***	45.1 ^{2/}	1.6
	01:30-01:35 HOUR	48.3 ^{2/}	45.8 ***	47.7 ^{2/}	5.3
	01:35-01:40 HOUR	46.4 ^{2/}	45.8 ***	40.5 ^{2/}	<0.8



DATE	TIME*	RESULT (dB(A)) ผลการวัดระดับความดัง				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
SEPTEMBER 28, 2023 TZ3AT318-0015	NIGHT TIME 2/ 05:20-05:25 HOUR	50.8 2/	50.0 ***	46.1 2/	43.8 ***	2.3
	05:25-05:30 HOUR	52.0 2/	50.0 ***	50.7 2/	43.8 ***	6.9
	05:30-05:35 HOUR	53.5 2/	50.7 ***	53.3 2/	44.6 ***	8.7
	05:35-05:40 HOUR	52.6 2/	50.7 ***	51.1 2/	44.6 ***	6.5
	05:40-05:45 HOUR	52.9 2/	50.7 ***	51.9 2/	44.6 ***	7.3
	05:45-05:50 HOUR	50.8 2/	50.7 ***	37.4 2/	49.6 ***	<0.8
	05:50-05:55 HOUR	51.8 2/	50.7 ***	48.3 2/	49.6 ***	<0.8
	DAY TIME 3/ 05:55-06:00 HOUR	51.3 2/	50.7 ***	45.4 2/	49.6 ***	<0.8
	06:00-07:00 HOUR	58.6 1/	58.0 **	49.7 1/	53.6 **	<0.8

REMARK : 1/ CASE 1 CALCULATION (DURING 06:00 TO 22:00 HOUR) : SPECIFIC SOUND LEVEL CONTINUOUSLY OCCUR AT LEAST 1 HOUR,
MEASURING AS L_{Aeq} 1 hour.
2/ CASE 4 CALCULATION (DURING 22:00 TO 06:00 HOUR) : SPECIFIC SOUND LEVEL OCCUR IN RESTFUL AREA OR NIGHT TIME,
MEASURING AS L_{Aeq} 5 minutes.
** PERCENTILE LEVEL 90 (L_{A90}) IS THE MIDDLE VALUE OF 11 TIMES MEASURING.
(55 MINUTES MEASURING DURING 06:00 TO 22:00 HOUR)
AND RESIDUAL SOUND LEVEL (L_{Aeq} 5 minutes) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.
*** PERCENTILE LEVEL 90 (L_{A90}) IS THE MIDDLE VALUE OF 3 TIMES MEASURING.
(15 MINUTES MEASURING DURING 22:00 TO 06:00 HOUR)
AND RESIDUAL SOUND LEVEL (L_{Aeq} 5 minutes) IS CHOSEN AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.


(MR. SILA BANDONGJAIYUK)
LABORATORY SUPERVISOR

OCTOBER 6, 2023

ภาคผนวก ง-3
ผลการตรวจวัดคุณภาพน้ำทะเล



ผลการตรวจวัดคุณภาพน้ำทะเล



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT หัตถ์ผลการวิเคราะห์ ภายใน 35 นาที (SW1) T23AV398-0001	REGULATORY STANDARD	DETECTION LIMIT
METALS					
ARSENIC ^c	µg/L As	PRE-CONCENTRATION AND HYDRIDE GENERATION ATOMIC ABSORPTION SPECTROMETRIC METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 10	0.300
CADMIUM ^c	µg/L Cd	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 5	0.100
HEXAVALENT CHROMIUM ^c	µg/L Cr ⁶⁺	PRE-CONCENTRATION AND ELECTROTHERMAL ATOMIC ABSORPTION SPECTROMETRIC METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 50	0.100
COPPER ^c	µg/L Cu	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.740	≤ 8	0.100
IRON ^c	µg/L Fe	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	33.8	≤ 300	0.100
LEAD ^c	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 8.5	0.100
MANGANESE ^c	µg/L Mn	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.110	≤ 100	0.100
MERCURY ^c	µg/L Hg	COLD-VAPOR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA 2005, 245.7)	ND	≤ 0.1	0.020
ZINC ^c	µg/L Zn	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	3.23	≤ 50	0.100

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

ANALYSIS REPORT

PROJECT NAME : โครงการวางผังและก่อสร้างท่าเรือบริเวณท่าเรือ 4/106

CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED

ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230

CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com

SAMPLING SOURCE : -

SAMPLE TYPE : SEAWATER

SAMPLING DATE : OCTOBER 27, 2023

SAMPLING TIME : 09:30 HOUR

SAMPLING METHOD^a : COMPOSITE

SAMPLING BY^c : MR ANUSART SUAYDEE

ANALYZED BY : MR WEERAYUT SARAPAGDEE

RECEIVED DATE : OCTOBER 27, 2023

ANALYTICAL DATE : OCTOBER 27-NOVEMBER 10, 2023

REPORT NO. : 2023-U097571

WORK NO. : 2022-008114

ANALYSIS NO. : T23AV398-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT หัตถ์ผลการวิเคราะห์ ภายใน 35 นาที (SW1) T23AV398-0001	REGULATORY STANDARD	DETECTION LIMIT
pH ^c	-	ELECTROMETRIC METHOD (AT SITE) SM, PART 4500-H ⁺ B AND 1050 B	8.0 (32°C)	7.0-8.5	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM, PART 2550 B)	32	n ^d	-
FLOATABLE OIL AND GREASE ^c	-	OBSERVATION METHOD	NOT VISIBLE	NOT VISIBLE	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM, PART 2520 B)	34.7	n ^d	0.1
TRANSPARENCY ^c	m	SECCHI DISC	2.0	n ^d	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM, PART 4500-O G)	4.1	≥ 4	0.5
SUSPENDED SOLIDS ^c	mg/L	GRAVIMETRIC METHOD (SM, PART 2540 D)	8.0	n ^d	10
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM, PART 2540 C)	36.200	-	25
NITRATE-NITROGEN ^c	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	5.56	≤ 60	0.50
PHOSPHATE-PHOSPHORUS ^b	µg/L P	IN-HOUSE METHOD: UAE-TP-WAT 002 BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS STRICKLAND AND PARSON, 1972	219	≤ 45	0.50
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE-TP-WAT 001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 23rd ED., 2017, PART 4500-NH ₄ H	174	≤ 950	10.0
PETROLEUM HYDROCARBON ^b	µg/L	INTERGOVERNMENT OCEANOGRAPHIC COMMISSION, MANUAL FOR MONITORING OIL AND DISSOLVED/ DISPERSED PETROLEUM HYDROCARBONS IN MARINE WATERS AND ON BEACHES, 1984	0.53	≤ 5	0.02

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเรือสินค้าและน้ำมัน ท่าเรือแหลมฉบัง จังหวัดชลบุรี
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : OCTOBER 27, 2023
SAMPLING TIME : 12:45 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MR WEERAYUT SARAPAGDEE

RECEIVED DATE : OCTOBER 27, 2023
ANALYTICAL DATE : OCTOBER 27-NOVEMBER 10, 2023
REPORT NO. : 2023-U097574
WORK NO. : 2022-008114
ANALYSIS NO. : T23AV398-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ค่ามาตรฐานตาม วิธีมาตรฐาน 60 นาที (SW2) T23AV398-0002	REGULATORY STANDARD	DETECTION LIMIT
pH ^c	-	ELECTROMETRIC METHOD (AT SITE) (SM, PART 4500-H ⁺ B AND 1060 B)	8.1 (31°C)	7.0-8.5	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM, PART 2550 B)	31	NOT VISIBLE	-
FLOATABLE OIL AND GREASE ^c	-	OBSERVATION METHOD	NOT VISIBLE	NOT VISIBLE	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM, PART 2520 B)	33.4	n ¹	0.1
TRANSPARENCY ^c	m	SECCHI DISC	2.0	n ²	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM, PART 4500-O ₂ G)	4.2	≥ 4	0.5
SUSPENDED SOLIDS ^c	mg/L	GRAVIMETRIC METHOD (SM, PART 2540 D)	2.5	n ⁴	1.0
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM, PART 2540 C)	35.525	-	25
NITRATE-NITROGEN ^c	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, 116))	6.39	≤ 80	0.50
PHOSPHATE-PHOSPHORUS ^b	µg/L P	IN-HOUSE METHOD (LAE TP-WAT 002 BASED ON PRACTICAL ANALYSIS STRICKLAND AND PARSON, 1972)	22.7	≤ 45	0.50
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD (LAE TP-WAT 001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 23rd ED, 2017, PART 4500-NH ₄ H)	9.15	≤ 950	10.0
PETROLEUM HYDROCARBON ^b	µg/L	INTERGOVERNMENT OCEANOGRAPHIC COMMISSION, MANUAL FOR MONITORING OIL AND DISSOLVED DISPERSED PETROLEUM HYDROCARBONS IN MARINE WATERS AND ON BEACHES, 1984	0.74	≤ 5	0.02

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/3

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ค่ามาตรฐานตาม วิธีมาตรฐาน 35 นาที (SW1) T23AV398-0001	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
Faecal COLIFORM BACTERIA ^{a, c}	CFU/100 mL	MEMBRANE FILTER TECHNIQUE (SM, PART 9222 D)	72	≤ 100	1
COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM, PART 9221 B)	140	≤ 1,000	18
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017,
REGULATORY STANDARD : SEAWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, B.E. 2564
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 138, PART 245 D, DATED OCTOBER 6, 2021.

CLASS 5 : SEAWATER QUALITY FOR INDUSTRY AND PORTS

(1) SEAWATER ADJACENT TO INDUSTRIAL ESTATES BOUNDARY ACCORDING TO THE INDUSTRIAL ESTATE AUTHORITY OF THAILAND ACT AND INDUSTRIAL ZONE ACCORDING TO INDUSTRIAL LAW WITH A BOUNDARY FROM THE HIGHEST TIDE LINE TO THE LOWEST TIDE LINE UP TO A DISTANCE OF 1000 METERS ALONG THE HORIZONTAL LINE OF THE SEAWATER SURFACE (2) SEAWATER IN THE PORTAL AREA THE MOORING AREA ACCORDING TO THE NAVIGATION IN THE THAI WATERS ACT (3) SEAWATER ADJACENT TO THE TERMINAL PORT THAT ACCEPTS SHIPS OF 500 GROSS TONS (OR ABOVE) OR THE BERTH'S LENGTH IS FROM 100 METERS (OR ABOVE), OR HAS A TOTAL BERTH AREA OF 1000 SQUARE METERS OR ABOVE, WITH A BOUNDARY STARTING FROM THE ADJACENT BERTH TO A DISTANCE OF 1000 METERS ALONG THE SEAWATER SURFACE

n¹ : ANY CHANGE SHALL NOT EXCEED 10% OF THE MINIMUM SALINITY. (THE MINIMUM LEVEL OF SALINITY SHALL BE DETERMINED BASED ON MARINE WATER SAMPLES TAKEN IN THE SAME SEASON AND FROM THE SAME STATION FOR 1 YEAR DURING WHICH OCCURRENCE OF TIDES EXISTS).

n² : AN INCREASE SHALL NOT EXCEED 2°C FROM THE NATURAL TEMPERATURE

n³ : A DECREASE SHALL NOT BE EXCEED THAN 10% OF THE MINIMUM TRANSPARENCY GOVERNED BY NATURAL CONDITION (THE MINIMUM LEVEL OF TRANSPARENCY SHALL BE ASCERTAINED BASED ON MARINE WATER SAMPLES TAKEN IN THE SAME SEASON AND FROM THE SAME STATION FOR 1 YEAR DURING WHICH OCCURRENCE OF TIDES EXISTS).

n⁴ : THE RESULTS SHOULD NOT BE CHANGED BY MORE THAN THE SUM OF DAILY OR MONTHLY OR YEARLY AVERAGE AND THE STANDARD DEVIATION. DAILY AVERAGE WAS CALCULATED FROM HOURLY MEASUREMENT OR AT LEAST 5 SAMPLES TAKEN AT EQUAL TIME INTERVAL WITHIN ONE DAY. MONTHLY AVERAGE WAS CALCULATED FROM DAILY MEASUREMENT OR AT LEAST 4 SAMPLES TAKEN AT EQUAL TIME INTERVAL WITHIN ONE MONTH. YEARLY AVERAGE WAS CALCULATED FROM MONTHLY MEASUREMENT AT EQUAL TIME INTERVAL AND THE SAME PLACE WITHIN ONE YEAR.

* : COLLECTED THE SAMPLE AT 30 CENTIMETRES UNDER THE WATER SURFACE LEVEL

ND : NON-DETECTABLE

Bruchart P.

(MR BHUCHONK PANICHLEERTUMPI)
LABORATORY SUPERVISOR

NOVEMBER 15, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

3/3

- End of Analysis Report -

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT หน่วยมาตรฐาน หรือค่า size 60 units (SW2) T23AV398-0002	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
FACIAL COLIFORM BACTERIA ^a	CFU/100 mL	MEMBRANE FILTER TECHNIQUE (SM PART 9222 D)	50	≤ 100	1
COLIFORM BACTERIA ^a	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221 B)	240	≤ 1000	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

REGULATORY STANDARD : SEAWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, B.E. 2564
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 138, PART 245 D, DATED OCTOBER 6, 2021

CLASS 5 : SEAWATER QUALITY FOR INDUSTRY AND PORTS

(1) SEAWATER ADJACENT TO INDUSTRIAL ESTATES BOUNDARY ACCORDING TO THE INDUSTRIAL ESTATE AUTHORITY OF THAILAND ACT AND INDUSTRIAL ZONE ACCORDING TO INDUSTRIAL LAW WITH A BOUNDARY FROM THE HIGHEST TIDE LINE TO THE LOWEST TIDE LINE UP TO A DISTANCE OF 1000 METERS ALONG THE HORIZONTAL LINE OF THE SEAWATER SURFACE (2) SEAWATER IN THE PORTAL AREA THE MOORING AREA ACCORDING TO THE NAVIGATION IN THE THAI WATERS ACT (3) SEAWATER ADJACENT TO THE TERMINAL PORT THAT ACCEPTS SHIPS OF 500 GROSS TONS (OR ABOVE) OR THE BERTH'S LENGTH IS FROM 100 METERS (OR ABOVE), OR HAS A TOTAL BERTH AREA OF 1000 SQUARE METERS OR ABOVE, WITH A BOUNDARY STARTING FROM THE ADJACENT BERTH TO A DISTANCE OF 1000 METERS ALONG THE SEAWATER SURFACE

ⁿ¹ : ANY CHANGE SHALL NOT EXCEED 10% OF THE MINIMUM SALINITY. (THE MINIMUM LEVEL OF SALINITY SHALL BE DETERMINED BASED ON MARINE WATER SAMPLES TAKEN IN THE SAME SEASON AND FROM THE SAME STATION FOR 1 YEAR DURING WHICH OCCURRENCE OF TIDES EXISTS).

ⁿ² : AN INCREASE SHALL NOT EXCEED 2°C FROM THE NATURAL TEMPERATURE.

ⁿ² : A DECREASE SHALL NOT BE EXCEED THAN 40% OF THE MINIMUM TRANSPARENCY GOVERNED BY NATURAL CONDITION (THE MINIMUM LEVEL OF TRANSPARENCY SHALL BE ASCERTAINED BASED ON MARINE WATER SAMPLES TAKEN IN THE SAME SEASON AND FROM THE SAME STATION FOR 1 YEAR DURING WHICH OCCURRENCE OF TIDES EXISTS).

ⁿ⁴ : THE RESULTS SHOULD NOT BE CHANGED BY MORE THAN THE SUM OF DAILY OR MONTHLY OR YEARLY AVERAGE AND THE STANDARD DIVIATION. DAILY AVERAGE WAS CALCULATED FROM HOURLY MEASUREMENT OR AT LEAST 5 SAMPLES TAKEN AT EQUAL TIME INTERVAL WITHIN ONE DAY. MONTHLY AVERAGE WAS CALCULATED FROM DAILY MEASUREMENT OR AT LEAST 4 SAMPLES TAKEN AT EQUAL TIME INTERVAL WITHIN ONE MONTH. YEARLY AVERAGE WAS CALCULATED FROM MONTHLY MEASUREMENT AT EQUAL TIME INTERVAL AND THE SAME PLACE WITHIN ONE YEAR.

* COLLECTED THE SAMPLE AT 30 CENTIMETRES UNDER THE WATER SURFACE LEVEL

ND : NON-DETECTABLE

Bruchon P.
(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT หน่วยมาตรฐาน หรือค่า size 60 units (SW2) T23AV398-0002	REGULATORY STANDARD	DETECTION LIMIT
METALS					
ARSENIC ^c	µg/L As	PRE-CONCENTRATION AND HYDRIDE GENERATION ATOMIC ABSORPTION SPECTROMETRIC METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 10	0.300
CADMIUM ^c	µg/L Cd	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 5	0.100
HEXAVALENT CHROMIUM ^c	µg/L Cr ⁶⁺	PRE-CONCENTRATION AND ELECTROTHERMAL ATOMIC ABSORPTION SPECTROMETRIC METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 50	0.100
COPPER ^c	µg/L Cu	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.550	≤ 8	0.100
IRON ^c	µg/L Fe	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	14.3	≤ 300	0.100
LEAD ^c	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.280	≤ 8.5	0.100
MANGANESE ^c	µg/L Mn	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.500	≤ 100	0.100
MERCURY ^c	µg/L Hg	COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA 2005, 245.7)	ND	≤ 0.1	0.020
ZINC ^c	µg/L Zn	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	2.57	≤ 50	0.100

UAE
UNITED ANALYST AND ENGINEERING CONSULTANT COMPANY, LIMITED

ANALYSIS REPORT

PROJECT NAME : โครงการทำเทียมเรือ บริษัท เจซี มารีน พอร์ด จำกัด

CUSTOMER NAME

ADDRESS
: 153/1 MOO 1 THUNG SUKHILA SI RACHA CHON BURI 20230

CONTACT INFORMATION
 - TEL : 08 1309 5708 0 3835 1473 e-mail : icmarineport.info@gmail.com

CONTACT AND COLD CHUTE
CAMPBELL'S SOLIDGE

SAMPLING SOURCE

SAMPLE TYPE	SEA WATER
1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24
25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50
51	52
53	54
55	56
57	58
59	60
61	62
63	64
65	66
67	68
69	70
71	72
73	74
75	76
77	78
79	80
81	82
83	84
85	86
87	88
89	90
91	92
93	94
95	96
97	98
99	100

SAMPLING DATE : OCTOBER 27, 2023

SAMPLING TIME : 11:50 HOUR

SAMPLING METHOD ° : COMPOSITE

SAMPLING BY ^a : MR. ANUSART SUAYDEE

ANALYZED BY : MR WEERAYUT SARAPAGDEE

RECEIVED DATE : OCTOBER 27 2023

RECEIVED DATE	EXPIRATION DATE
OCTOBER 27, 2023	OCTOBER 27, 2023

ANALYTICAL DATE: OCTOBER 27-1988

REPORT NO. : 2023-0097576

WORK NO. : 2022-008114

ANALYSIS NO. : T23AV398-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ผลการตรวจวิเคราะห์ เมื่อ ๙ มิ.ย. ๖๐ (SW3) T23AV398-0003		
pH ^c	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	8.2 (3°C)	7.0-8.5	-
TEMPERATURE ^e	°C	THERMOMETER AT SITE (SM: PART 2550 B)	31	n ^d	-
FLOATABLE OIL AND GREASE ^c	-	OBSERVATION METHOD	NOT VISIBLE	NOT VISIBLE	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B)	33.7	n ^d	0.1
TRANSPARENCY ^c	m	SECCHI DISC	2.0	n ^d	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O ₂ G)	4.2	≥ 4	0.5
SUSPENDED SOLIDS ^e	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	3.4	n ^d	1.0
TOTAL DISSOLVED SOLIDS ^e	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35.275	-	25
NITRATE-NITROGEN ^e	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II B))	6.99	≤ 60	0.50
PHOSPHATE-PHOSPHORUS ^b	µg/L P	IN-HOUSE METHOD: UAE TP WAT 002 BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS STRICKLAND AND PARSON, 1972	25.4	≤ 45	0.50
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE TP WAT 001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 23rd ED., 2017, PART 4500-NH ₄ H	130	≤ 950	10.0
PETROLEUM HYDROCARBON ^b	µg/L	INTERGOVERNMENT OCEANOGRAPHIC COMMISSION, MANUAL FOR MONITORING OIL AND DISSOLVED/ DISPERSED PETROLEUM HYDROCARBONS IN MARINE WATERS AND ON BEACHES, 1984	0.74	≤ 5	0.02

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

213

2023-U097576

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO.

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/3



ANALYSIS REPORT

PROJECT NAME : โครงการท่าเรือสินค้าประมงท่าเรือแหลมฉบัง
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : SEAWATER
SAMPLE TYPE : OCTOBER 27, 2023
SAMPLING DATE : OCTOBER 27, 2023
SAMPLING TIME : 10:25 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MR WEERAYUT SARAPAGDEE

RECEIVED DATE : OCTOBER 27, 2023
ANALYTICAL DATE : OCTOBER 27-NOVEMBER 10, 2023
REPORT NO. : 2023-U097578
WORK NO. : 2022-008114
ANALYSIS NO. : T23AV398-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ค่าเฉลี่ยรวม ทั้งหมด 220 ชิ้น (SW4) T23AV398-0004	REGULATORY STANDARD	DETECTION LIMIT
pH ^c	-	ELECTROMETRIC METHOD (AT SITE) SM- PART 4500-H ⁺ B AND 1090 B	8.1 (31°C)	7.0-8.5	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM- PART 2550 B)	31	n ²	-
FLOATABLE OIL AND GREASE ^c	-	OBSERVATION METHOD	NOT VISIBLE	NOT VISIBLE	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM- PART 2520 B)	34.0	n ¹	0.1
TRANSPARENCY ^c	m	SECCHI DISC	2.5	n ³	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM- PART 4500-O G)	4.2	≥ 4	0.5
SUSPENDED SOLIDS ^c	mg/L	GRAVIMETRIC METHOD (SM- PART 2540 D)	2.1	n ⁴	10
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM- PART 2540 C)	36.050	-	25
NITRATE-NITROGEN ^c	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	5.68	≤ 60	0.50
PHOSPHATE-PHOSPHORUS ^b	µg/L P	IN-HOUSE METHOD: UAE TP-WAT.002 BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS STRICKLAND AND PARSON, 1972	22.2	≤ 45	0.50
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE TP-WAT.001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 23rd ED., 2017, PART 4500-NH ₃ H	254	≤ 950	10.0
PETROLEUM HYDROCARBON ^b	µg/L	INTERGOVERNMENT OCEANOGRAPHIC COMMISSION, MANUAL FOR MONITORING OIL AND DISSOLVED DISPERSED PETROLEUM HYDROCARBONS IN MARINE WATERS AND ON BEACHES, 1984	0.40	≤ 5	0.02



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ค่าเฉลี่ยรวม ทั้งหมด 90 ชิ้น (SW3) T23AV398-0003	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA ^{a, c}	CFU/100 mL	MEMBRANE FILTER TECHNIQUE (SM- PART 9222 D)	32	≤ 100	1
COLIFORM BACTERIA ^{a, b}	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM- PART 9221 B)	330	≤ 1,000	18
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT				YELLOW/CLEAR BROWN	

a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23RD EDITION, 2017.
REGULATORY STANDARD : SEAWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, B.E. 2564
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 138, PART 245 D, DATED OCTOBER 6, 2021

CLASS 5.

: SEAWATER QUALITY FOR INDUSTRY AND PORTS

(1) SEAWATER ADJACENT TO INDUSTRIAL ESTATES BOUNDARY ACCORDING TO THE INDUSTRIAL ESTATE AUTHORITY OF THAILAND ACT AND INDUSTRIAL ZONE ACCORDING TO INDUSTRIAL LAW WITH A BOUNDARY FROM THE HIGHEST TIDE LINE TO THE LOWEST TIDE LINE UP TO A DISTANCE OF 1000 METERS ALONG THE HORIZONTAL LINE OF THE SEAWATER SURFACE (2) SEAWATER IN THE PORTAL AREA THE MOORING AREA ACCORDING TO THE NAVIGATION IN THE THAI WATERS ACT (3) SEAWATER ADJACENT TO THE TERMINAL PORT THAT ACCEPTS SHIPS OF 500 GROSS TONS (OR ABOVE) OR THE BERTH'S LENGTH IS FROM 100 METERS (OR ABOVE) OR HAS A TOTAL BERTH AREA OF 1000 SQUARE METERS OR ABOVE, WITH A BOUNDARY STARTING FROM THE ADJACENT BERTH TO A DISTANCE OF 1000 METERS ALONG THE SEAWATER SURFACE

n¹ : ANY CHANGE SHALL NOT EXCEED 10% OF THE MINIMUM SALINITY. (THE MINIMUM LEVEL OF SALINITY SHALL BE DETERMINED BASED ON MARINE WATER SAMPLES TAKEN IN THE SAME SEASON AND FROM THE SAME STATION FOR 1 YEAR DURING WHICH OCCURRENCE OF TIDES EXISTS).

n² : AN INCREASE SHALL NOT EXCEED 2°C FROM THE NATURAL TEMPERATURE

n³ : A DECREASE SHALL NOT BE EXCEED THAN 10% OF THE MINIMUM TRANSPARENCY GOVERNED BY NATURAL CONDITION (THE MINIMUM LEVEL OF TRANSPARENCY SHALL BE ASCERTAINED BASED ON MARINE WATER SAMPLES TAKEN IN THE SAME SEASON AND FROM THE SAME STATION FOR 1 YEAR DURING WHICH OCCURRENCE OF TIDES EXISTS).

n⁴ : THE RESULTS SHOULD NOT BE CHANGED BY MORE THAN THE SUM OF DAILY OR MONTHLY OR YEARLY AVERAGE AND THE STANDARD DEVIATION. DAILY AVERAGE WAS CALCULATED FROM HOURLY MEASUREMENT OR AT LEAST 5 SAMPLES TAKEN AT EQUAL TIME INTERVAL WITHIN ONE DAY. MONTHLY AVERAGE WAS CALCULATED FROM DAILY MEASUREMENT OR AT LEAST 4 SAMPLES TAKEN AT EQUAL TIME INTERVAL WITHIN ONE MONTH. YEARLY AVERAGE WAS CALCULATED FROM MONTHLY MEASUREMENT AT EQUAL TIME INTERVAL AND THE SAME PLACE WITHIN ONE YEAR.

• COLLECTED THE SAMPLE AT 30 CENTIMETRES UNDER THE WATER SURFACE LEVEL.

ND : NON-DETECTABLE

Bruchant
(MR. BHUCHONK PANICHLEERTUMPI)
LABORATORY SUPERVISOR

NOVEMBER 15, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

3/3

- End of Analysis Report -

2023-U097576

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT วิธีทดสอบ วิธีที่ 220 สาร (SW4) T23AV396-0004	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA* ^a	CFU/100 mL	MEMBRANE FILTER TECHNIQUE (SM. PART 9222 D)	5	≤ 100	1
COLIFORM BACTERIA* ^b	MPN/100 mL	MULTITUBE- TUBE FERMENTATION TECHNIQUE (SM. PART 9221 B)	130	≤ 1,000	1.8
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

REGULATORY STANDARD : SEAWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, B.E. 2564

PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 138, PART 245 D, DATED OCTOBER 6, 2021

CLASS 5

- (1) SEAWATER QUALITY FOR INDUSTRY AND PORTS
- (2) SEAWATER ADJACENT TO INDUSTRIAL ESTATES BOUNDARY ACCORDING TO THE INDUSTRIAL ESTATE AUTHORITY OF THAILAND ACT AND INDUSTRIAL ZONE ACCORDING TO INDUSTRIAL LAW WITH A BOUNDARY FROM THE HIGHEST TIDE LINE TO THE LOWEST TIDE LINE UP TO A DISTANCE OF 1000 METERS ALONG THE HORIZONTAL LINE OF THE SEAWATER SURFACE (2) SEAWATER ADJACENT TO THE MOORING AREA ACCORDING TO THE NAVIGATION IN THE THAI WATERS ACT (3) SEAWATER ADJACENT TO THE TERMINAL PORT THAT ACCEPTS SHIPS OF 500 GROSS TONS (OR ABOVE) OR THE BERTH'S LENGTH IS FROM 100 METERS (OR ABOVE), OR HAS A TOTAL BERTH AREA OF 1000 SQUARE METERS OR ABOVE, WITH A BOUNDARY STARTING FROM THE ADJACENT BERTH TO A DISTANCE OF 1000 METERS ALONG THE SEAWATER SURFACE.

ⁿ¹ : ANY INCREASE SHALL NOT EXCEED 10% OF THE MINIMUM SALINITY. (THE MINIMUM LEVEL OF SALINITY SHALL BE DETERMINED BASED ON MARINE WATER SAMPLES TAKEN IN THE SAME SEASON AND FROM THE SAME STATION FOR 1 YEAR DURING WHICH OCCURRENCE OF TIDES EXISTS).

ⁿ² : A DECREASE SHALL NOT BE EXCEED 2°C FROM THE NATURAL TEMPERATURE.

ⁿ³ : (THE MINIMUM LEVEL OF TRANSPARENCY SHALL BE ASCERTAINED BASED ON MARINE WATER SAMPLES TAKEN IN THE SAME SEASON AND FROM THE SAME STATION FOR 1 YEAR DURING WHICH OCCURRENCE OF TIDES EXISTS).

ⁿ⁴ : THE RESULTS SHOULD NOT BE CHANGED BY MORE THAN THE SUM OF DAILY OR MONTHLY OR YEARLY AVERAGE AND THE STANDARD DIVIATION. DAILY AVERAGE WAS CALCULATED FROM HOURLY MEASUREMENT OR AT LEAST 5 SAMPLES TAKEN AT EQUAL TIME INTERVAL WITHIN ONE DAY. MONTHLY AVERAGE WAS CALCULATED FROM DAILY MEASUREMENT OR AT LEAST 4 SAMPLES TAKEN AT EQUAL TIME INTERVAL WITHIN ONE MONTH. YEARLY AVERAGE WAS CALCULATED FROM MONTHLY MEASUREMENT AT EQUAL TIME INTERVAL AND THE SAME PLACE WITHIN ONE YEAR.

ⁿ⁵ : COLLECTED THE SAMPLE AT 30 CENTIMETRES UNDER THE WATER SURFACE LEVEL.

ⁿ⁶ : NON-DETECTABLE

Bruchant P.
(MR BRUCHANT PANICHLEERTUMPI)
LABORATORY SUPERVISOR

NOVEMBER 15, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

3/3

- End of Analysis Report -

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT วิธีทดสอบ วิธีที่ 220 สาร (SW4) T23AV396-0004	REGULATORY STANDARD	DETECTION LIMIT
METALS					
ARSENIC ^c	µg/L As	PRE-CONCENTRATION AND HYDRIDE GENERATION ATOMIC ABSORPTION SPECTROMETRIC METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 10	0.300
CADMIUM ^c	µg/L Cd	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 5	0.100
HEXAVALENT CHROMIUM ^c	µg/L Cr ⁶⁺	PRE-CONCENTRATION AND ELECTRO-THERMAL ATOMIC ABSORPTION SPECTROMETRIC METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 50	0.100
COPPER ^c	µg/L Cu	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.560	≤ 8	0.100
IRON ^c	µg/L Fe	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	5.49	≤ 300	0.100
LEAD ^c	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.390	≤ 8.5	0.100
MANGANESE ^c	µg/L Mn	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.710	≤ 100	0.100
MERCURY ^c	µg/L Hg	COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA 2005, 245.7)	ND	≤ 0.1	0.020
ZINC ^c	µg/L Zn	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	2.05	≤ 50	0.100

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2/3

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT หน่วยวัด: 320 mg/L (SW5) T234V398-0005	REGULATORY STANDARD	DETECTION LIMIT
METALS					
ARSENIC ^c	µg/L As	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 10	0.300
CADMIUM ^c	µg/L Cd	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 5	0.100
HEXAVALENT CHROMIUM ^c	µg/L Cr ⁶⁺	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	≤ 50	0.100
COPPER ^c	µg/L Cu	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.320	≤ 8	0.100
IRON ^c	µg/L Fe	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	4.11	≤ 300	0.100
LEAD ^c	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.120	≤ 8.5	0.100
MANGANESE ^c	µg/L Mn	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.350	≤ 100	0.100
MERCURY ^c	µg/L Hg	COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA 2005, 245.7)	ND	≤ 0.1	0.020
ZINC ^c	µg/L Zn	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	2.16	≤ 50	0.100

ANALYSIS REPORT

PROJECT NAME : โครงการพัฒนาเรือบรรทุกน้ำมัน 10,000 ตัน
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : SEAWATER
SAMPLE TYPE : -
SAMPLING DATE : OCTOBER 27, 2023
SAMPLING TIME : 11:10 HOUR
SAMPLING METHOD : COMPOSITE
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MR WEERAYUT SARAPAGDEE
RECEIVED DATE : OCTOBER 27, 2023
ANALYTICAL DATE : OCTOBER 27-NOVEMBER 10, 2023
REPORT NO. : 2023-U097579
WORK NO. : 2022-008114
ANALYSIS NO. : T234V398-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT หน่วยวัด: 320 mg/L (SW5) T234V398-0005	REGULATORY STANDARD	DETECTION LIMIT
pH ^c	-	ELECTROMETRIC METHOD (AT SITE) SM- PART 4500-H ⁺ B AND 1060 B	8.1 (31°C)	70-8.5	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM- PART 2550 B)	31	n ²	-
FLOATABLE OIL AND GREASE ^c	-	OBSERVATION METHOD	NOT VISIBLE	NOT VISIBLE	-
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM- PART 2520 B)	33.5	n ¹	0.1
TRANSPARENCY ^c	m	SECCHI DISC	2.5	n ³	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM- PART 4500-O G)	4.4	≥ 4	0.5
SUSPENDED SOLIDS ^c	mg/L	GRAVIMETRIC METHOD (SM- PART 2540 D)	2.2	n ⁴	10
TOTAL DISSOLVED SOLIDS ^c	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM- PART 2540 G)	35.175	-	25
NITRATE-NITROGEN ^c	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	5.81	≤ 60	0.50
PHOSPHATE-PHOSPHORUS ^b	µg/L P	IN-HOUSE METHOD: UAE-TP-WAT 002 BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS STRICKLAND AND PARSON, 1972	20.2	≤ 45	0.50
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE-TP-WAT 001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 23rd ED, 2017, PART 4500-NH ₄ -H	193	≤ 950	10.0
PETROLEUM HYDROCARBON ^b	µg/L	INTERGOVERNMENT OCEANOGRAPHIC COMMISSION, MANUAL FOR MONITORING OIL AND DISSOLVED DISPERSED PETROLEUM HYDROCARBONS IN MARINE WATERS AND ON BEACHES, 1984	0.47	≤ 5	0.02

ANALYSIS REPORT

PROJECT NAME : โครงการพัฒนาระบบบำบัดน้ำเสียชุมชนตำบลท่าเรือ
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineportinfo@gmail.com
SAMPLE TYPE : BLANK (SEAWATER)
SAMPLING DATE : OCTOBER 27, 2023
SAMPLING TIME : OCTOBER 27-NOVEMBER 10, 2023
SAMPLING METHOD : 2023-U097588
SAMPLING BY : 2022-008114
ANALYZED BY : 2023-FB1103, 2023-TB1044
: MR. THAPAGORN PIMSON

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			1 2023-FB1103	2 2023-TB1044	
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM PART 2540 D)	ND	ND	10
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM PART 2540 C)	ND	ND	25
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, 116))	ND	ND	0.50
PHOSPHATE-PHOSPHORUS	µg/L P	IN-HOUSE METHOD: UAE TP WAT 002 BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972)	ND	ND	0.50
TOTAL AMMONIA	µg/L N	IN-HOUSE METHOD: UAE TP WAT 001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 23rd ED., 2017, PART 4500-NH ₄ -H	ND	ND	10.0
PETROLEUM HYDROCARBON	µg/L	INTERGOVERNMENT OCEANOGRAPHIC COMMISSION MANUAL FOR MONITORING OIL AND DISSOLVED/ DISPERSED PETROLEUM HYDROCARBONS IN MARINE WATERS AND ON BEACHES, 1984	ND	ND	0.02
METALS					
ARSENIC	µg/L As	PRE-CONCENTRATION AND HYDRIDE GENERATION ATOMIC ABSORPTION SPECTROMETRIC METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	ND	0.300
CADMIUM	µg/L Cd	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	ND	0.100
HEXAVALENT CHROMIUM	µg/L Cr ⁶⁺	PRE-CONCENTRATION AND ELECTROTHERMAL ATOMIC ABSORPTION SPECTROMETRIC METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	ND	0.100
COPPER	µg/L Cu	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	ND	0.100

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/2

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA* ^a	CFU/100 mL	MEMBRANE FILTER TECHNIQUE (SM PART 9222 D)	25	≤ 100	1
COLIFORM BACTERIA* ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM PART 9221 B)	330	≤ 1,000	18
SAMPLE CONDITION					
WATER'S COLOUR/TURBID					
SEDIMENT					
YELLOW/CLEAR BROWN					

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
REGULATORY STANDARD : SEAWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, B.E. 2564
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 138, PART 245 D, DATED OCTOBER 6, 2021

CLASS 5 : SEAWATER QUALITY FOR INDUSTRY AND PORTS

(1) SEAWATER ADJACENT TO INDUSTRIAL ESTATES BOUNDARY ACCORDING TO THE INDUSTRIAL ESTATE AUTHORITY OF THAILAND ACT AND INDUSTRIAL ZONE ACCORDING TO INDUSTRIAL LAW WITH A BOUNDARY FROM THE HIGHEST TIDE LINE TO THE LOWEST TIDE LINE UP TO A DISTANCE OF 100 METERS ALONG THE HORIZONTAL LINE OF THE SEAWATER SURFACE (2) SEAWATER IN THE PORTAL AREA THE MOORING AREA ACCORDING TO THE NAVIGATION IN THE THAI WATERS ACT (3) SEAWATER ADJACENT TO THE TERMINAL PORT THAT ACCEPTS SHIPS OF 500 GROSS TONS (OR ABOVE) OR THE BERTHS LENGTH IS FROM 100 METERS (OR ABOVE), OR HAS A TOTAL BERTH AREA OF 1000 SQUARE METERS OR ABOVE, WITH A BOUNDARY STARTING FROM THE ADJACENT BERTH TO A DISTANCE OF 1000 METERS ALONG THE SEAWATER SURFACE

ⁿ¹ : ANY CHANGE SHALL NOT EXCEED 10% OF THE MINIMUM SALINITY. (THE MINIMUM LEVEL OF SALINITY SHALL BE DETERMINED BASED ON MARINE WATER SAMPLES TAKEN IN THE SAME SEASON AND FROM THE SAME STATION FOR 1 YEAR DURING WHICH OCCURRENCE OF TIDES EXISTS).

ⁿ² : AN INCREASE SHALL NOT EXCEED 2°C FROM THE NATURAL TEMPERATURE.

ⁿ³ : A DECREASE SHALL NOT BE EXCEED THAN 10% OF THE MINIMUM TRANSPARENCY GOVERNED BY NATURAL CONDITION (THE MINIMUM LEVEL OF TRANSPARENCY SHALL BE ASCERTAINED BASED ON MARINE WATER SAMPLES TAKEN IN THE SAME SEASON AND FROM THE SAME STATION FOR 1 YEAR DURING WHICH OCCURRENCE OF TIDES EXISTS).

ⁿ⁴ : THE RESULTS SHOULD NOT BE CHANGED BY MORE THAN THE SUM OF DAILY OR MONTHLY OR YEARLY AVERAGE AND THE STANDARD DIVIATION. DAILY AVERAGE WAS CALCULATED FROM HOURLY MEASUREMENT OR AT LEAST 5 SAMPLES TAKEN AT EQUAL TIME INTERVAL WITHIN ONE DAY. MONTHLY AVERAGE WAS CALCULATED FROM DAILY MEASUREMENT OR AT LEAST 4 SAMPLES TAKEN AT EQUAL TIME INTERVAL WITHIN ONE MONTH. YEARLY AVERAGE WAS CALCULATED FROM MONTHLY MEASUREMENT AT EQUAL TIME INTERVAL AND THE SAME PLACE WITHIN ONE YEAR.

• COLLECTED THE SAMPLE AT 30 CENTIMETRES UNDER THE WATER SURFACE LEVEL.

ND : NON-DETECTABLE

Bruchant
(MR. BRUCHANT PANICHLEERTUMPI)
LABORATORY SUPERVISOR

NOVEMBER 15, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

3/3

- End of Analysis Report -

2023-U097579

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			1 2023-FB1103	2 2023-FB1044	
IRON	µg/L Fe	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	ND	0.100
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	ND	0.100
MANGANESE	µg/L Mn	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	ND	0.100
MERCURY	µg/L Hg	COLD-VAPOUR ATOMIC FLUORESCENCE SPECTROMETRIC METHOD (US EPA, 2005, 245.7)	ND	ND	0.020
ZINC	µg/L Zn	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	ND	ND	0.100
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA	CFU/100 mL	MEMBRANE FILTER TECHNIQUE (SM, PART 9222 D)	< 1	< 1	1
COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM, PART 9221B)	< 18	< 18	18
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		COLOURLESS/CLEAR

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

RESULT 1 : FIELD BLANK

RESULT 2 : TRIP BLANK

ND : NON-DETECTABLE

Bruchart
(MR. BRUCHART PANICHERTUMPI)
LABORATORY SUPERVISOR

NOVEMBER 15, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BSI GROUP (THAILAND) CO., LTD.

2/2

2023-U097588

- End of Analysis Report -

ผลการตรวจวัดโลหะหนักในตะกอนดิน



ANALYSIS REPORT

PROJECT NAME : โครงการทำเทียบเรือ บริษัท เจซี มารีน พอร์ต จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : SEDIMENT
SAMPLING DATE : OCTOBER 27, 2023
SAMPLING TIME : 09:45 HOUR
SAMPLING METHOD : PETERSEN GRAB
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS CHOMTHANAN APHIPATPAPHA

RECEIVED DATE : OCTOBER 27, 2023
ANALYTICAL DATE : OCTOBER 27-NOVEMBER 7, 2023
REPORT NO. : 2023-U097131
WORK NO. : 2022-008114
ANALYSIS NO. : T23AV401-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บริเวณหน้าท่าเทียบเรือของโครงการ T23AV401-0001	
METALS				
ARSENIC (As)	mg/kg (dry weight)	ACID DIGESTION AND HYDRIDE GENERATION AAS METHOD (US EPA 1996: 3050B AND 1992: 7061A)	8.90	0.100
CADMIUM (Cd)	mg/kg (dry weight)	ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (US EPA 1996: 3050B AND 2018: 6010D)	1.59	0.050
LEAD (Pb)	mg/kg (dry weight)	ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (US EPA 1996: 3050B AND 2007: 7000B)	36.1	1.55
MERCURY (Hg)	mg/kg (dry weight)	ACID DIGESTION AND COLD VAPOUR AAS METHOD (US EPA 2007: 7471B)	ND	0.100
SAMPLE CONDITION			GREY SEDIMENT	

ND : NON-DETECTABLE.



(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

NOVEMBER 13, 2023



ภาคผนวก ง-4

ผลการตรวจวัดทรัพยากรชีวภาพในทะเล



ผลการตรวจวัดทรัพยากรชีวภาพในทะเล



RESULT

PHYTOPLANKTON (Natural Units/mL)	COUNTING UNIT	RESULT				
		SAMPLE NO. 1	SAMPLE NO. 2	SAMPLE NO. 3	SAMPLE NO. 4	SAMPLE NO. 5
		09:35 HOUR * T23AV398-0006	12:50 HOUR * T23AV398-0007	11:55 HOUR * T23AV398-0008	10:30 HOUR * T23AV398-0009	11:15 HOUR * T23AV398-0010
Family Thalassiomelaceae	CELL	142	133	156	87	68
<i>Thalassiosira frauenfeldii</i> ^b	CELL	222	223	226	302	332
<i>T. nitescens</i> ^b	CELL	23	0	0	21	0
Family Naviculaeae	CELL	734	756	783	974	1756
<i>Amphora</i> spp. ^b	CELL	24	0	0	133	0
<i>Pleurosigma</i> spp. ^b	CELL	0	0	0	0	10
Family Bacillariaceae	CELL	24	46	34	46	52
<i>Bacillaria paxillifer</i> ^b	CELL	135	157	240	235	395
<i>N. longissima</i> ^b	CELL	59	0	17	86	52
<i>Pseudo-nitzschia</i> spp. ^b	CELL	302	74	52	79	135
Family Surirellaceae	CELL	0	0	12	0	0
<i>Entomoneis</i> spp. ^b	CELL	0	0	0	11	17
<i>Surirella</i> spp. ^b	CELL	11	0	0	0	17
Class Dictyochophyceae	CELL	1014	1585	763	3063	5224
Family Dictyochophyceae	CELL	0	0	0	0	15
<i>Dictyocha</i> spp. ^b	CELL	26	388	190	92	305
Class Dinophyceae	CELL	0	0	0	0	0
Family Prorocentraceae	CELL	0	0	0	11	17
<i>Prorocentrum</i> spp. ^b	CELL	11	0	0	0	17
Family Dinophysiaceae	CELL	1014	1585	763	3063	5224
<i>Dinophysis</i> spp. ^b	CELL	0	0	0	0	15
Family Ceratiales	CELL	26	388	190	92	305
<i>Ceratium furca</i> ^b	CELL	0	0	0	0	0
Family Goniodomaceae	CELL	0	0	0	0	0
<i>Gonyaulax</i> spp. ^b	CELL	0	0	0	0	0
Family Peridiniaceae	CELL	0	0	0	0	0
<i>Peridinium</i> spp. ^b	CELL	0	0	0	0	0

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY. THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2023-U095980

213



ANALYSIS REPORT

PROJECT NAME : โครงการพัฒนาระบบบริหารจัดการน้ำในพื้นที่ลุ่มน้ำท่าจีน
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHULA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : OCTOBER 27, 2023
SAMPLING TIME : *
SAMPLING METHOD : PLANKTON NET
SAMPLING BY : MR ANUSART SUAYDEE
SAMPLED BY : MISS NAPAPORN PURATAKO

PHYTOPLANKTON (Natural Units/mL)	COUNTING UNIT	RESULT				
		SAMPLE NO. 1 09:35 HOUR * T23AV398-0006	SAMPLE NO. 2 12:50 HOUR * T23AV398-0007	SAMPLE NO. 3 11:55 HOUR * T23AV398-0008	SAMPLE NO. 4 10:30 HOUR * T23AV398-0009	SAMPLE NO. 5 11:15 HOUR * T23AV398-0010
Division Chromophyta						
Class Bacillariophyceae						
Family Thalassiosiraceae						
<i>Lauderia annulata</i> ^a	FILAMENT	198	438	303	261	399
<i>Pavonella</i> spp. ^b	CELL	0	0	4	0	6
<i>Thalassiosira</i> spp. ^b	CELL	332	457	503	450	998
Family Melosiraceae						
<i>Paralia sulcata</i> ^b	CELL	12	0	0	0	0
Family Leptocylindraceae						
<i>Corethron clophium</i> ^b	CELL	0	0	0	13	12
<i>Leptocylindrus danicus</i> ^a	FILAMENT	28	113	18	17	86
Family Coscinodiscaceae						
<i>Coscinodiscus</i> spp. ^b	CELL	46	172	90	146	230
<i>Palmeria hardmaniana</i> ^b	CELL	6	8	6	4	45
Family Rhizosoleniaceae						
<i>Dactylosolen</i> spp. ^a	CELL	0	127	0	0	0
<i>Gurardie</i> spp. ^b	CELL	21	56	19	17	31
<i>Rhizosolenia</i> spp. ^b	CELL	59	52	32	38	46
Family Hemiallaciaceae						
<i>Eucampa</i> spp. ^b	CELL	0	49	76	0	42
<i>Hemiaulus</i> spp. ^b	CELL	0	22	27	35	51
Family Chaetocerataceae						
<i>Bacillasterium</i> spp. ^b	FILAMENT	62	75	53	72	133
<i>Chaetoceros</i> spp. ^a	CELL	1522	5603	3,787	2,366	4,465
Family Lithodermiaceae						
<i>Ditylum</i> spp. ^b	CELL	31	0	0	0	0
Family Eupodiscaceae						
<i>Odonella</i> spp. ^b	CELL	11	0	0	0	0

- PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
- THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/3





United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.02763 2828 Fax.02763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.02763 2828 Fax.02763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

ANALYSIS REPORT

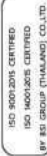
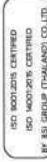
PROJECT NAME : โครงการท่าเรือขนส่งสินค้าและท่าเรือประมง
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcnameport.info@gmail.com
SAMPLING SOURCE : SEAWATER
SAMPLING DATE : OCTOBER 27, 2023
SAMPLING TIME : 15:31
SAMPLING METHOD : PLANKTON NET
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS NAPAPORN PURATAKO
RECEIVED DATE : OCTOBER 27, 2023
ANALYTICAL DATE : OCTOBER 27 - NOVEMBER 6, 2023
REPORT NO. : 2023-U095981
WORK NO. : 2022-008114
ANALYSIS NO. : T23AV398-0006 - T23AV398-0010

ZOOPLANKTON (UNITS/m ³)	COUNTING UNIT	RESULT				
		SAMPLE NO. 1 09:35 HOUR * T23AV398-0006	SAMPLE NO. 2 12:50 HOUR * T23AV398-0007	SAMPLE NO. 3 11:55 HOUR * T23AV398-0008	SAMPLE NO. 4 10:30 HOUR * T23AV398-0009	SAMPLE NO. 5 11:15 HOUR * T23AV398-0010
Phylum Protozoa Class Sarcodina Foraminifera	CELL	0	0	930	0	0
Class Ciliata Family Codonellidae Trifarngopsis sp.	CELL	7,078	2,128	1,388	1,280	2,850
Family Ocyropsidae Favella sp.	CELL	0	2,672	2,775	2,137	2,446
Phylum Annelida Class Polychaeta Polychaete Larva	INDIVIDUAL	9,431	0	4,762	10,659	8,964
Phylum Arthropoda Class Crustacea Cyclopoid Copepod	INDIVIDUAL	35,386	18,686	67,040	29,007	31,392
Calanoid Copepod	INDIVIDUAL	38,925	25,064	43,931	69,516	71,748
Harpacticoid Copepod	INDIVIDUAL	1,770	4,271	1,845	3,839	1,223
Nauplius of Copepod	INDIVIDUAL	92,003	80,500	79,996	48,200	61,965
Ceripedia Nauplius	INDIVIDUAL	34,201	8,525	2,775	20,895	20,386
Phylum Mollusca Class Bivalvia Bivalvia Larva	INDIVIDUAL	7,078	0	0	1,280	0

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/2



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.02763 2828 Fax.02763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com



PHYTOPLANKTON (Natural Units/mL)	COUNTING UNIT	RESULT				
		SAMPLE NO. 1 09:35 HOUR * T23AV398-0006	SAMPLE NO. 2 12:50 HOUR * T23AV398-0007	SAMPLE NO. 3 11:55 HOUR * T23AV398-0008	SAMPLE NO. 4 10:30 HOUR * T23AV398-0009	SAMPLE NO. 5 11:15 HOUR * T23AV398-0010
Family Protophydinaceae Protophydinum spp. a	CELL	42	38	45	27	94
TOTAL ABUNDANCE ^b (Natural Units/mL)		5,086	10,542	7,436	8,576	14,966
AMOUNT OF SPECIES ^b		25	21	23	24	27
SAMPLE VOLUME ^b (mL)		240	218	228	226	246
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT		COLOURLESS/CLEAR GREEN	COLOURLESS/CLEAR GREEN	COLOURLESS/CLEAR GREEN	COLOURLESS/CLEAR GREEN	COLOURLESS/CLEAR GREEN

* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
b : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED
หมายเหตุ: 1. STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF 23rd EDITION, 2017 PART 10200 F.

SAMPLE NO. 1 : ปริมาณตัวอย่างน้ำดิบ ระยะ 35 เมตร (SW1)
SAMPLE NO. 2 : ปริมาณตัวอย่างน้ำดิบ ระยะ 60 เมตร (SW2)
SAMPLE NO. 3 : ปริมาณตัวอย่างน้ำดิบ ระยะ 90 เมตร (SW3)
SAMPLE NO. 4 : ปริมาณตัวอย่างน้ำดิบ ระยะ 220 เมตร (SW4)
SAMPLE NO. 5 : ปริมาณตัวอย่างน้ำดิบ ระยะ 320 เมตร (SW5)

(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

NOVEMBER 14, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



3/3

2023-U095980

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.02763 2828 Fax.02763 2800 www.uaeconsultant.com E-mail:uae@uaeconsultant.com

UNITED ANALYST AND ENGINEERING CONSULTANT COMPANY LIMITED

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือรับสินค้า และ เรือยนต์ เรือประมง
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE :
SAMPLE TYPE : SEDIMENT
SAMPLING DATE : OCTOBER 27, 2023
SAMPLING TIME :
SAMPLING METHOD : PETERSEN GRAB
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS PATCHAREE KONGCHUMMAN
RECEIVED DATE : OCTOBER 27, 2023
ANALYTICAL DATE : OCTOBER 27-NOVEMBER 3, 2023
WORK NO. : 2023-U095982
ANALYSIS NO. : T23AV398-0011 - T23AV398-0015

BENTHOS (INDIVIDUALS/m ²)	RESULT				
	SAMPLE NO. 1 09:40 HOUR * T23AV398-0011	SAMPLE NO. 2 12:55 HOUR * T23AV398-0012	SAMPLE NO. 3 12:00 HOUR * T23AV398-0013	SAMPLE NO. 4 10:35 HOUR * T23AV398-0014	SAMPLE NO. 5 11:20 HOUR * T23AV398-0015
Phylum Annelida Class Polychaeta Family Nereitidae Family Nereitidae Family Lumbrineridae Family Orbiniidae Family Nereididae Family Spionidae	0 0 7 0 0 0 0	0 7 0 0 0 0 14	0 7 0 0 0 0 0	7 21 0 7 49 21	0 7 0 0 0 0 0
Phylum Arthropoda Class Malacostraca Family Aoridae	0 7 1	0 21 2	0 7 1	21 126 6	0 7 1
TOTAL DENSITY (INDIVIDUALS/m ²)	7	21	7	126	7
AMOUNT OF SPECIES	1	2	1	6	1
SAMPLE CONDITION	LEAF WRECK	LEAF WRECK	LEAF WRECK	SAND WITH SHELLS	SAND WITH SHELLS

SAMPLE NO. 1 : บริเวณด้านขวาของท่าเรือ ระยะ 35 เมตร (SW1)
SAMPLE NO. 2 : บริเวณด้านหน้าของท่าเรือ ระยะ 60 เมตร (SW2)
SAMPLE NO. 3 : บริเวณด้านซ้ายของท่าเรือ ระยะ 90 เมตร (SW3)
SAMPLE NO. 4 : บริเวณด้านขวาของท่าเรือ ระยะ 220 เมตร (SW4)
SAMPLE NO. 5 : บริเวณด้านขวาของท่าเรือ ระยะ 320 เมตร (SW5)

(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

NOVEMBER 14, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.02763 2828 Fax.02763 2800 www.uaeconsultant.com E-mail:uae@uaeconsultant.com

UNITED ANALYST AND ENGINEERING CONSULTANT COMPANY LIMITED

ZOOPLANKTON (UNITS/m ³)	COUNTING UNIT	RESULT				
		SAMPLE NO. 1 09:35 HOUR * T23AV398-0006	SAMPLE NO. 2 12:50 HOUR * T23AV398-0007	SAMPLE NO. 3 11:55 HOUR * T23AV398-0008	SAMPLE NO. 4 10:30 HOUR * T23AV398-0009	SAMPLE NO. 5 11:15 HOUR * T23AV398-0010
Phylum Chordata Class Larvacea Family Oikopleuridae Oikopleura sp.	INDIVIDUAL	1,770	9,597	30,168	17,056	7,338
TOTAL ABUNDANCE (UNITS/m ³)		227,642	151,423	215,010	203,869	208,312
AMOUNT OF SPECIES		9	8	10	10	9
SAMPLE CONDITION		COLOURLESS/CLEAR GREEN	COLOURLESS/CLEAR GREEN	COLOURLESS/CLEAR GREEN	COLOURLESS/CLEAR GREEN	COLOURLESS/CLEAR GREEN
WATER'S COLOUR/TURBID SEDIMENT						

หมายเหตุ: 1. STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF 23rd EDITION, 2017 PART 10200 F.

SAMPLE NO. 1 : บริเวณด้านขวาของท่าเรือ ระยะ 35 เมตร (SW1)
SAMPLE NO. 2 : บริเวณด้านหน้าของท่าเรือ ระยะ 60 เมตร (SW2)
SAMPLE NO. 3 : บริเวณด้านซ้ายของท่าเรือ ระยะ 90 เมตร (SW3)
SAMPLE NO. 4 : บริเวณด้านขวาของท่าเรือ ระยะ 220 เมตร (SW4)
SAMPLE NO. 5 : บริเวณด้านขวาของท่าเรือ ระยะ 320 เมตร (SW5)

(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

NOVEMBER 14, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



2/2

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uaec@uaeconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการทำเหมืองแร่ หินปูน เสาปูน พอร์ตแลนด์
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 E-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : SEAWATER
SAMPLING DATE : OCTOBER 27, 2023
SAMPLING TIME : 2023-U097266
SAMPLING METHOD : *
SAMPLING BY : LARVA NET
ANALYZED BY : MR. ANUSART SUAYDEE
RECEIVED DATE : OCTOBER 27, 2023
ANALYTICAL DATE : OCTOBER 27-NOVEMBER 9, 2023
REPORT NO. : 2023-U097266
WORK NO. : 2022-008114
ANALYSIS NO. : T23AV399-0001 - T23AV399-0005

	RESULT				
	SAMPLE NO. 1 10:10 HOUR * (INDIVIDUALS/1000m ³)	SAMPLE NO. 2 12:31 HOUR * (INDIVIDUALS/1000m ³)	SAMPLE NO. 3 12:13 HOUR * (INDIVIDUALS/1000m ³)	SAMPLE NO. 4 10:50 HOUR * (INDIVIDUALS/1000m ³)	SAMPLE NO. 5 11:25 HOUR * (INDIVIDUALS/1000m ³)
FISH EGG AND FISH LARVA					
Phylum Chordata	16,143	7,446	7,576	3,699	31,518
Blenniidae	0	6	0	5	0
Callionymidae	0	6	0	0	0
Carangidae	23	0	0	0	0
Clupeidae	16	6	6	19	18
Monacanthidae	0	6	11	19	0
Nemipteridae	0	6	16	10	18
Polynemidae	196	39	71	77	9
Scatophagidae	23	0	6	10	0
TOTAL ABUNDANCE (FISH LARVA)	258	69	110	140	45
TOTAL ABUNDANCE (FISH EGG)	16,143	7,446	7,576	3,699	31,518
TOTAL FISH FAMILY	4	6	5	6	3

REMARK ** MEAN INDIVIDUALS/1000m³

SAMPLE NO. 1 : หวังส่วนน้ำทะเลที่เก็บ รวบรวม 35 เมตร (SW1)
SAMPLE NO. 2 : หวังส่วนน้ำทะเลที่เก็บ รวบรวม 60 เมตร (SW2)
SAMPLE NO. 3 : หวังส่วนน้ำทะเลที่เก็บ รวบรวม 90 เมตร (SW3)
SAMPLE NO. 4 : หวังส่วนน้ำทะเลที่เก็บ รวบรวม 220 เมตร (SW4)
SAMPLE NO. 5 : หวังส่วนน้ำทะเลที่เก็บ รวบรวม 320 เมตร (SW5)

(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

NOVEMBER 14, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax 0 2763 2800 www.uaeconsultant.com E-mail: uaec@uaeconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการทำเหมืองแร่ หินปูน เสาปูน พอร์ตแลนด์
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 E-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : SEDIMENT
SAMPLING DATE : OCTOBER 27, 2023
SAMPLING TIME : *
SAMPLING METHOD : LARVA NET
SAMPLING BY : MR. ANUSART SUAYDEE
ANALYZED BY : MISS PATCHARAPA SAWANGWONG
RECEIVED DATE : OCTOBER 27, 2023
ANALYTICAL DATE : OCTOBER 27 - NOVEMBER 2, 2023
REPORT NO. : 2023-U095979
WORK NO. : 2022-008114
ANALYSIS NO. : T23AV447-0001 - T23AV447-0005

	RESULT				
	SAMPLE NO. 1 10:10 HOUR * (INDIVIDUALS/1000m ³)	SAMPLE NO. 2 12:31 HOUR * (INDIVIDUALS/1000m ³)	SAMPLE NO. 3 12:13 HOUR * (INDIVIDUALS/1000m ³)	SAMPLE NO. 4 10:50 HOUR * (INDIVIDUALS/1000m ³)	SAMPLE NO. 5 11:25 HOUR * (INDIVIDUALS/1000m ³)
MACRO-ZOOPLANKTON					
Phylum Arthropoda					
Class Malacostraca	1,380	273	564	1,464	4,440
Crab Larva	3,069	477	964	7,957	24,18
Shrimp Larva	76	0	19	0	0
Zoea	7	11	13	131	11
Mysid	7,863	1,362	607	9,102	2,561
Lucifer sp.					
Phylum Mollusca					
Class Gastropoda					
Gastropoda Larva	442	0	0	87	121
Class Bivalvia					
Bivalvia Larva	0	0	19	0	66
TOTAL ABUNDANCE (INDIVIDUALS/1000m ³)	12,837	2,123	2,186	18,741	9,617
AMOUNT OF SPECIES	6	4	6	5	6

REMARK : PLANKTON COUNTING TECHNIQUES IS NATURAL UNIT COUNT. REFERENCE : AMERICAN PUBLIC HEALTH ASSOCIATION, AMERICAN WATER WORKS ASSOCIATION ENVIRONMENT AND WATER FEDERATION (APHA, AWWA AND WEF) 2017. STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, AMERICAN PUBLIC HEALTH ASSOCIATION WASHINGTON, DC, U.S.A.

SAMPLE NO. 1 : หวังส่วนน้ำทะเลที่เก็บ รวบรวม 35 เมตร (SW1)
SAMPLE NO. 2 : หวังส่วนน้ำทะเลที่เก็บ รวบรวม 60 เมตร (SW2)
SAMPLE NO. 3 : หวังส่วนน้ำทะเลที่เก็บ รวบรวม 90 เมตร (SW3)
SAMPLE NO. 4 : หวังส่วนน้ำทะเลที่เก็บ รวบรวม 220 เมตร (SW4)
SAMPLE NO. 5 : หวังส่วนน้ำทะเลที่เก็บ รวบรวม 320 เมตร (SW5)

(MISS CHAWEEVAN BOONLA)
LABORATORY SUPERVISOR

NOVEMBER 10, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -

ผลการตรวจวัดการปนเปื้อนของโลหะหนักในหอยแมลงภู่





United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax.0 2763 2800 www.uaconsultant.com E-mail:uae@uaconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เจริญ พอร์ต จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : SHELLFISH
SAMPLING DATE : OCTOBER 27, 2023
SAMPLING TIME : 13:20 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS CHOMTHANAN APHIPATPAPHA

RECEIVED DATE : OCTOBER 27, 2023
ANALYTICAL DATE : OCTOBER 27-NOVEMBER 23, 2023
REPORT NO. : 2023-U101974
WORK NO. : 2022-008114
ANALYSIS NO. : T23AV400-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
METALS				
ARSENIC (As)	mg/kg (wet weight)	AOAC OFFICIAL METHOD 986.15	0.366	0.025
MERCURY (Hg)	mg/kg (wet weight)	AOAC OFFICIAL METHOD 977.15	0.162	0.004
CADMIUM (Cd)	mg/kg (wet weight)	AOAC OFFICIAL METHOD 999.11	0.140	0.025
LEAD (Pb)	mg/kg (wet weight)	AOAC OFFICIAL METHOD 999.11	0.160	0.025
SAMPLE CONDITION			SHELL TISSUE	

Bruchart Jp
(MR BHUCHONK PANICHLERTUMPT)
LABORATORY SUPERVISOR

NOVEMBER 27, 2023

- PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
- THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -



United Analyst and Engineering Consultant Co., Ltd.
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260
Tel.0 2763 2828 Fax.0 2763 2800 www.uaconsultant.com E-mail:uae@uaconsultant.com

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเทียบเรือ บริษัท เจริญ พอร์ต จำกัด
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : SHELLFISH
SAMPLING DATE : OCTOBER 27, 2023
SAMPLING TIME : 13:00 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR ANUSART SUAYDEE
ANALYZED BY : MISS CHOMTHANAN APHIPATPAPHA

RECEIVED DATE : OCTOBER 27, 2023
ANALYTICAL DATE : OCTOBER 27-NOVEMBER 23, 2023
REPORT NO. : 2023-U101973
WORK NO. : 2022-008114
ANALYSIS NO. : T23AV400-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
METALS				
ARSENIC (As)	mg/kg (wet weight)	AOAC OFFICIAL METHOD 986.15	0.273	0.025
MERCURY (Hg)	mg/kg (wet weight)	AOAC OFFICIAL METHOD 977.15	0.356	0.004
CADMIUM (Cd)	mg/kg (wet weight)	AOAC OFFICIAL METHOD 999.11	0.121	0.025
LEAD (Pb)	mg/kg (wet weight)	AOAC OFFICIAL METHOD 999.11	0.238	0.025
SAMPLE CONDITION			SHELL TISSUE	

Bruchart Jp
(MR BHUCHONK PANICHLERTUMPT)
LABORATORY SUPERVISOR

NOVEMBER 27, 2023

- PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
- THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



1/1

- End of Analysis Report -

ภาคผนวก ง-5

ผลการตรวจวัดคุณภาพน้ำทิ้ง



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

REGULATORY STANDARD : THE MARINE DEPARTMENT NOTICE 164/2560 REGARDING THE STANDARDS OF ORIGIN OF SEWAGE AND INDUSTRIAL ESTATES, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 134, PART 246 D.

DATED OCTOBER 5, 2017.

ND : NON-DETECTABLE

Piyapol S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 28, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2/2

- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเรือขนส่งสินค้าและรถบรรทุกขนาดใหญ่

CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED

ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230.

CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 E-mail : jcmarineport.info@gmail.com

SAMPLING SOURCE : -

SAMPLE TYPE : EFFLUENT

SAMPLING DATE : AUGUST 16, 2023

SAMPLING TIME : 10:26 HOUR

SAMPLING METHOD ^a : GRAB

SAMPLING BY ^c : MR. THANADET WANSANOR

ANALYZED BY : MISS NAPPAPORN KHUNNOCKHUM

RECEIVED DATE : AUGUST 16, 2023

ANALYTICAL DATE : AUGUST 16-24, 2023

REPORT NO. : 2023-U070757

WORK NO. : 2022-008114

ANALYSIS NO. : T23AP813-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.3 (30°C)	5.5-9.0	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM: PART 2550 B)	30	≤ 40	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O ₂ G)	6.7	≤ 20	20
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLEX COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	≤ 120	250
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND ^d	≤ 50	50
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	441	≤ 3,000	25
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM: PART 4500-S ₂ F)	< 0.50	≤ 1	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE TP WAS 001 (KJELDAHL METHOD); SM: PART 4500-Norg C	5.9	≤ 100	15

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ผลการทดสอบ T23AS600-0001	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM. PART 5220 B)	ND	≤ 5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

REGULATORY STANDARD : THE MARINE DEPARTMENT NOTICE 164/2560 REGARDING THE STANDARDS OF ORIGIN OF SEWERAGE AND INDUSTRIAL ESTATES, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 34, PART 246 D.

DATED OCTOBER 5, 2017.

ND : NON-DETECTABLE

Piyapat S.
(MRS PIYAPAT SUTTANANITWONG)
LABORATORY SUPERVISOR

SEPTEMBER 29, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2/2

- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการท่าเรือรับ-ส่งสินค้า และ เรือรับ-ส่งสินค้า
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHILA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : SEPTEMBER 18, 2023
SAMPLING TIME : 14:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS KALLAYA SOMPHONG

RECEIVED DATE : SEPTEMBER 19, 2023
ANALYTICAL DATE : SEPTEMBER 19-27, 2023
REPORT NO. : 2023-U082618
WORK NO. : 2022-008114
ANALYSIS NO. : T23AS600-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ผลการทดสอบ T23AS600-0001	REGULATORY STANDARD	DETECTION LIMIT
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM. PART 4500-H ⁺ B)	7.2 (30°C)	5.5-9.0	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM. PART 2550 B)	30	≤ 40	-
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM. PART 5210 B AND PART 4500-O ₂ G)	3.1	≤ 20	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM. PART 5220 D)	28.5	≤ 120	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM. PART 2540 D)	5.2	≤ 50	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM. PART 2540 C)	396	≤ 3,000	25
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM. PART 4500-S ²⁻ F)	< 0.50	≤ 1	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD : UAE TP VAS 001 (KJELDAHL METHOD), SM. PART 4500-Norg ^c	11.2	≤ 100	15

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/2

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM PART 5520 B)	ND	≤ 5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

REGULATORY STANDARD : THE MARINE DEPARTMENT NOTICE 184/2560 REGARDING THE STANDARDS OF ORIGIN OF SEWAGE AND INDUSTRIAL ESTATES, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 246 D.

DATED OCTOBER 5, 2017.

ND : NON-DETECTABLE

Piyapat S.
(MRS PIYAPAT SUTTANANUTWONG)
LABORATORY SUPERVISOR

OCTOBER 31, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2023-U092096

2/2

- End of Analysis Report -

ANALYSIS REPORT

CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 E-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : OCTOBER 18, 2023
SAMPLING TIME : 13:35 HOUR
SAMPLING METHOD ^a : GRAB
SAMPLING BY ^c : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM
RECEIVED DATE : OCTOBER 18, 2023
ANALYTICAL DATE : OCTOBER 18-30, 2023
REPORT NO. : 2023-U092096
WORK NO. : 2022-008114
ANALYSIS NO. : T23AU677-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM PART 4500-H ⁺ B)	7.7 (30°C) T23AU677-0001	5.5-9.0	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM PART 2540 B)	30	≤ 40	-
BIO-CHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM PART 5210 B AND PART 4500-O ₂ G)	ND	≤ 20	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLEX, COLOURIMETRIC METHOD (SM PART 5220 D)	ND	≤ 120	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM PART 2540 D)	8.5	≤ 50	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM PART 2540 C)	510	≤ 3,000	25
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM PART 4500-S ₂ -F)	< 0.50	≤ 1	0.50
TOTAL KJELDAHL NITROGEN ^c	mg/L	IN-HOUSE METHOD: UAE TP WAS001 (KJELDAHL METHOD); SM PART 4500-Norg C	ND	≤ 100	15

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.
• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/2

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ผลการวิเคราะห์ ทดสอบ T23AW773-0001	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM. PART 5520 B)	ND	≤ 5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR YELLOW		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)
^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)
^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

REGULATORY STANDARD : THE MARINE DEPARTMENT NOTICE #642560 REGARDING THE STANDARDS OF ORIGIN OF SEWERAGE AND INDUSTRIAL ESTATES, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 134, PART 246 D,

DATED OCTOBER 5, 2017.

ND : NON-DETECTABLE

Piyapat S.
(MRS PIYAPAT SUTTANANUTWONG)
LABORATORY SUPERVISOR

NOVEMBER 24, 2023

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2/2

- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการพัฒนาระบบน้ำประปา เชื่อม บ้านโพธิ์ 4/4/6
CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED
ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 e-mail : jcmarineport.info@gmail.com
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : NOVEMBER 15, 2023
SAMPLING TIME : 10:55 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOCKKHUM
RECEIVED DATE : NOVEMBER 15, 2023
ANALYTICAL DATE : NOVEMBER 15-21, 2023
REPORT NO. : 2023-U100889
WORK NO. : 2022-008114
ANALYSIS NO. : T23AW773-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ผลการวิเคราะห์ ทดสอบ T23AW773-0001	REGULATORY STANDARD	DETECTION LIMIT
pH ^c	-	ELECTROMETRIC METHOD (AT SITE) SM. PART 4500-H ⁺ B AND 1060 B	7.1 (30°C)	5.5-9.0	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM. PART 2550 B)	30	≤ 40	-
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM. PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM. PART 5220 D)	ND	≤ 120	25.0
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103- 105 °C (SM. PART 2540 D)	ND	≤ 50	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM. PART 2540 C)	582	≤ 3,000	25
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM. PART 4500-S ²⁻ F)	< 0.50	≤ 1	0.50
TOTAL KJELDAHL NITROGEN ^c	mg/L	IN-HOUSE METHOD LAE TP WAS 001 (KJELDAHL METHOD), SM. PART 4500-Norg C	ND	≤ 100	15

• PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/2



LAE United Analyst and Engineering Consultant Co., Ltd.

3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260

Tel.0 2763 2828 Fax.0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

TESTING
No.0063

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ผลการวิเคราะห์ T23A2323-0001	REGULATORY STANDARD	DETECTION LIMIT
FAT, OIL AND GREASE ^a	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM. PART 5520 B)	ND	≤ 5	3
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT					
			YELLOW/CLEAR YELLOW		

^a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)

^b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)

^c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.

REGULATORY STANDARD : THE MARINE DEPARTMENT NOTICE #642580 REGARDING THE STANDARDS OF ORIGIN OF SEWERAGE AND

INDUSTRIAL ESTATES, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 134, PART 246 D,

DATED OCTOBER 5, 2017.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN ≥ 15 AND < 5.0 mg/L).

Piyapat S.
(MRS. PIYAPAT SUTAMANTUWONG)
LABORATORY SUPERVISOR

DECEMBER 28, 2023

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

2/2

- End of Analysis Report -

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BS GROUP (THAILAND) CO., LTD.

2023-U112301



LAE United Analyst and Engineering Consultant Co., Ltd.

3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260

Tel.0 2763 2828 Fax.0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

TESTING
No.0063

ANALYSIS REPORT

PROJECT NAME : โครงการพัฒนาระบบบำบัดน้ำเสียชุมชน หมู่ 10 ตำบลบ้านใหม่ อำเภอเมือง จังหวัดภูเก็ต

CUSTOMER NAME : JC MARINE PORT COMPANY LIMITED

ADDRESS : 153/1 MOO 1 THUNG SUKHLA SI RACHA CHON BURI 20230

CONTACT INFORMATION : TEL : 08 1309 5708, 0 3835 1473 E-mail : jmarineport.info@gmail.com

SAMPLING SOURCE : -

SAMPLE TYPE : EFFLUENT

SAMPLING DATE : DECEMBER 18, 2023

SAMPLING TIME : 14:11 HOUR

SAMPLING METHOD^a : GRAB

SAMPLING BY^c : MR THANADET WANSANOR

ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : DECEMBER 18, 2023

ANALYTICAL DATE : DECEMBER 18-25, 2023

REPORT NO. : 2023-U112301

WORK NO. : 2022-008114

ANALYSIS NO. : T23A2323-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT ผลการวิเคราะห์ T23A2323-0001	REGULATORY STANDARD	DETECTION LIMIT
pH ^c	-	ELECTROMETRIC METHOD (AT SITE) SM. PART 4500-H ⁺ B AND 1060 B	7.5 (32°C)	5.5-9.0	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM. PART 2550 B)	32	≤ 40	-
BIO-CHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM. PART 5210 B AND PART 4500-O G)	ND	≤ 20	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLEX, COLOURIMETRIC METHOD (SM. PART 5220 D)	ND	≤ 120	25.0
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103- 105 °C (SM. PART 2540 D)	ND	≤ 50	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM. PART 2540 C)	585	≤ 3,000	25
SULPHIDE ^b	mg/L	IODOMETRIC METHOD (SM. PART 4500-S ⁻ F)	< 0.50	≤ 1	0.50
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD, UATP WAS.001 (KJELDAHL METHOD); SM. PART 4500-Norg C	< LOQ	≤ 100	15

ISO 9001:2015 CERTIFIED
ISO 14001:2015 CERTIFIED
BY BS GROUP (THAILAND) CO., LTD.

* PROHIBITED TO PARTIALLY COPY ANALYSIS REPORT PRIOR TO WRITTEN PERMISSION BY THE LABORATORY.

* THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/2

