

ภาคผนวก ฎ  
ใบรายงานผลการวิเคราะห์

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## คุณภาพอากาศ

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## ANALYSIS REPORT

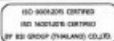
**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : POARJHC 1: BAN KHAO NOI (UTM WGS 84 ZONE 47P 731599E 1732489N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*  
**SAMPLING TIME** : \*, \*\*  
**SAMPLING BY** :   
**ANALYZED BY** :   
**RECEIVED DATE** : SEPTEMBER 12, 2022  
**ANALYTICAL DATE** : SEPTEMBER 12-16, 2022  
**REPORT NO.** : 2022-U076142  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0001 - T22AR977-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD
			POARJHC 1 : BAN KHAO NOI		
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.025	0.021	≤ 0.33
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.012	0.010	≤ 0.12
SAMPLE CONDITION			COMPLETE	COMPLETE	

**REMARK**  
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.  
REGULATORY STANDARD : AMBIENT AIR QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.24, B.E.2547 (2004).  
\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 8, 2022 TO 08:30 HOUR ON SEPTEMBER 9, 2022.  
\*\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 9, 2022 TO 08:30 HOUR ON SEPTEMBER 10, 2022.

LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



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\* REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.

1/1



## ANALYSIS REPORT

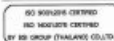
**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : POARJHC 2 : PAH RAY RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036.92E 1731971.86N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*  
**SAMPLING TIME** : \*, \*\*  
**SAMPLING BY** :   
**ANALYZED BY** :   
**RECEIVED DATE** : SEPTEMBER 12, 2022  
**ANALYTICAL DATE** : SEPTEMBER 12-16, 2022  
**REPORT NO.** : 2022-U076153  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0007 - T22AR977-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD
			POARJHC 2 : PAH RAY RAI THONG TEMPLE		
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.032	0.035	≤ 0.33
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.020	0.019	≤ 0.12
SAMPLE CONDITION			COMPLETE	COMPLETE	

**REMARK**  
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.  
REGULATORY STANDARD : AMBIENT AIR QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.24, B.E.2547 (2004).  
\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 4, 2022 TO 08:30 HOUR ON SEPTEMBER 5, 2022.  
\*\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 5, 2022 TO 08:30 HOUR ON SEPTEMBER 6, 2022.

LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



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## ANALYSIS REPORT

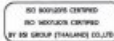
**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : POARJHC 1: BAN KHAO NOI (UTM WGS 84 ZONE 47P 731599E 1732489N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*  
**SAMPLING TIME** : \*  
**SAMPLING BY** :   
**ANALYZED BY** :   
**RECEIVED DATE** : SEPTEMBER 12, 2022  
**ANALYTICAL DATE** : SEPTEMBER 12-16, 2022  
**REPORT NO.** : 2022-U076147  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD
			POARJHC 1 : BAN KHAO NOI		
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.018		≤ 0.33
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.008		≤ 0.12
SAMPLE CONDITION			COMPLETE		

**REMARK**  
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.  
REGULATORY STANDARD : AMBIENT AIR QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.24, B.E.2547 (2004).  
\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 10, 2022 TO 08:30 HOUR ON SEPTEMBER 11, 2022.

LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



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## ANALYSIS REPORT

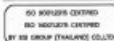
**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : POARJHC 2 : PAH RAY RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036.92E 1731971.86N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*  
**SAMPLING TIME** : \*  
**SAMPLING BY** :   
**ANALYZED BY** :   
**RECEIVED DATE** : SEPTEMBER 12, 2022  
**ANALYTICAL DATE** : SEPTEMBER 12-16, 2022  
**REPORT NO.** : 2022-U076155  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD
			POARJHC 2 : PAH RAY RAI THONG TEMPLE		
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.024		≤ 0.33
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.013		≤ 0.12
SAMPLE CONDITION			COMPLETE		

**REMARK**  
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.  
REGULATORY STANDARD : AMBIENT AIR QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.24, B.E.2547 (2004).  
\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 6, 2022 TO 08:30 HOUR ON SEPTEMBER 7, 2022.

LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



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## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*  
**SAMPLING TIME** : \*, \*\*  
**SAMPLING BY** :  
**ANALYZED BY** :

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD
			POARJHC 3 : BAN TUNG YAI		
			* T22AR977-0004	** T22AR977-0005	
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.025	0.025	≤ 0.33
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.014	0.015	≤ 0.12
SAMPLE CONDITION			COMPLETE	COMPLETE	

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.  
REGULATORY STANDARD : AMBIENT AIR QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.24, B.E.2547 (2004).  
\* : SAMPLING FROM 09:30 HOUR ON SEPTEMBER 8, 2022 TO 09:30 HOUR ON SEPTEMBER 9, 2022.  
\*\* : SAMPLING FROM 09:30 HOUR ON SEPTEMBER 9, 2022 TO 09:30 HOUR ON SEPTEMBER 10, 2022.

LABORATORY SUPERVISOR

SEPTEMBER 29, 2022

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BY ISO GROUP (THAILAND) CO., LTD.

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## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*  
**SAMPLING TIME** : \*  
**SAMPLING BY** :  
**ANALYZED BY** :

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD
			POARJHC 3 : BAN TUNG YAI T22AR977-0006	
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.048	≤ 0.33
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.019	≤ 0.12
SAMPLE CONDITION			COMPLETE	

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.  
REGULATORY STANDARD : AMBIENT AIR QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.24, B.E.2547 (2004).  
\* : SAMPLING FROM 09:30 HOUR ON SEPTEMBER 10, 2022 TO 09:30 HOUR ON SEPTEMBER 11, 2022.

LABORATORY SUPERVISOR

SEPTEMBER 29, 2022

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BY ISO GROUP (THAILAND) CO., LTD.

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ANALYSIS REPORT

CUSTOMER NAME : ECO ORIENT RESOURCES (THAILAND) LTD.  
ADDRESS : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
CONTACT INFORMATION : TEL : 0 2937 1124-9 e-mail : anucha@ecoohai.net  
MEASURING PLACE : POARJHC 1 : BAN KHAO NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)  
MEASURING TYPE : AMBIENT (AIR) RECEIVED DATE : SEPTEMBER 8-11, 2022  
MEASURING DATE : SEPTEMBER 8-11, 2022 ANALYTICAL DATE : SEPTEMBER 8-11, 2022  
MEASURING TIME : \* REPORT NO. : 2022-U072043  
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION WORK NO. : 2022-006609  
MEASURED BY : T22AR977-0001 - T22AR977-0003

TIME*	RESULT		
	CARBON MONOXIDE		
	POARJHC 1 : BAN KHAO NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)		
	SEPTEMBER 8 - 9, 2022	SEPTEMBER 9 - 10, 2022	SEPTEMBER 10 - 11, 2022
	T22AR977-0001	T22AR977-0002	T22AR977-0003
08:00-16:00 HOUR	0.80	1.50	0.81
16:00-00:00 HOUR	1.41	0.79	0.70
00:00-08:00 HOUR	1.10	0.79	1.11
UNIT	ppm		

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR  
SEPTEMBER 19, 2022

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ANALYSIS REPORT

CUSTOMER NAME : ECO ORIENT RESOURCES (THAILAND) LTD.  
ADDRESS : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
CONTACT INFORMATION : TEL : 0 2937 1124-9 e-mail : anucha@ecoohai.net  
MEASURING PLACE : POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)  
MEASURING TYPE : AMBIENT (AIR) RECEIVED DATE : SEPTEMBER 4-7, 2022  
MEASURING DATE : SEPTEMBER 4-7, 2022 ANALYTICAL DATE : SEPTEMBER 4-7, 2022  
MEASURING TIME : \* REPORT NO. : 2022-U072046  
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION WORK NO. : 2022-006609  
MEASURED BY : T22AR977-0007 - T22AR977-0009

TIME*	RESULT		
	CARBON MONOXIDE		
	POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)		
	SEPTEMBER 4 - 5, 2022	SEPTEMBER 5 - 6, 2022	SEPTEMBER 6 - 7, 2022
	T22AR977-0007	T22AR977-0008	T22AR977-0009
08:00-16:00 HOUR	1.30	1.02	0.75
16:00-00:00 HOUR	0.83	0.86	1.41
00:00-08:00 HOUR	1.20	1.05	1.50
UNIT	ppm		

LABORATORY SUPERVISOR  
SEPTEMBER 19, 2022

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ANALYSIS REPORT

CUSTOMER NAME : ECO ORIENT RESOURCES (THAILAND) LTD.  
ADDRESS : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
CONTACT INFORMATION : TEL : 0 2937 1124-9 e-mail : anucha@ecoohai.net  
MEASURING PLACE : POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729470E 1728613N)  
MEASURING TYPE : AMBIENT (AIR) RECEIVED DATE : SEPTEMBER 8-11, 2022  
MEASURING DATE : SEPTEMBER 8-11, 2022 ANALYTICAL DATE : SEPTEMBER 8-11, 2022  
MEASURING TIME : \* REPORT NO. : 2022-U072045  
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION WORK NO. : 2022-006609  
MEASURED BY : T22AR977-0004 - T22AR977-0006

TIME*	RESULT		
	CARBON MONOXIDE		
	POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729470E 1728613N)		
	SEPTEMBER 8 - 9, 2022	SEPTEMBER 9 - 10, 2022	SEPTEMBER 10 - 11, 2022
	T22AR977-0004	T22AR977-0005	T22AR977-0006
08:00-16:00 HOUR	1.25	1.58	1.50
16:00-00:00 HOUR	1.18	1.30	0.60
00:00-08:00 HOUR	1.60	1.41	1.18
UNIT	ppm		

LABORATORY SUPERVISOR  
SEPTEMBER 19, 2022

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## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: ECO THAI RESOURCES (THAILAND) LTD.		
<b>ADDRESS</b>	: 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHN ROAD CHATLUKHA CHATLUKHA BANGKOK 10900		
<b>CONTACT INFORMATION</b>	: TEL : 0 2937 1124-9 e-mail : anuchai@ecothai.net		
<b>MEASURING PLACE</b>	: POAIRUK 1 : BAN KHOI NOI (UTM WGS 84 ZONE 47P 173559E 17324850N)		
<b>MEASURING TYPE</b>	: AMBIENT (AIR)		
<b>MEASURING DATE</b>	: SEPTEMBER 8-11, 2022		
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: CHEMILUMINESCENCE		
<b>MEASURED BY</b>	: [REDACTED]		
<b>RECEIVED DATE</b>	: SEPTEMBER 8-11, 2022		
<b>ANALYTICAL DATE</b>	: SEPTEMBER 8-11, 2022		
<b>REPORT NO.</b>	: 2022-1077047		
<b>WORK NO.</b>	: 2022-006609		
<b>ANALYSIS NO.</b>	: T22AR977-0001 - T22AR977-0003		

		RESULT (ppm)		
		NITROGEN DIOXIDE		
		POARJHC 1 : BAN KHAO NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)		
TIME *	SEPTEMBER 8 - 9, 2022 T22AR977-0001	SEPTEMBER 9 - 10, 2022 T22AR977-0002	SEPTEMBER 10 - 11, 2022 T22AR977-0003	
06:00-09:00 HOUR	0.0042	0.0068	0.0055	
09:00-10:00 HOUR	0.0047	0.0061	0.0051	
10:00-11:00 HOUR	0.0049	0.0053	0.0053	
11:00-12:00 HOUR	0.0054	0.0043	0.0050	
12:00-13:00 HOUR	0.0057	0.0039	0.0045	
13:00-14:00 HOUR	0.0061	0.0036	0.0039	
14:00-15:00 HOUR	0.0068	0.0034	0.0037	
15:00-16:00 HOUR	0.0071	0.0034	0.0039	
16:00-17:00 HOUR	0.0071	0.0034	0.0040	
17:00-18:00 HOUR	0.0072	0.0036	0.0039	
18:00-19:00 HOUR	0.0070	0.0039	0.0041	
19:00-20:00 HOUR	0.0070	0.0045	0.0042	
20:00-21:00 HOUR	0.0075	0.0048	0.0045	
21:00-22:00 HOUR	0.0082	0.0048	0.0044	
22:00-23:00 HOUR	0.0083	0.0053	0.0048	
23:00-00:00 HOUR	0.0073	0.0062	0.0051	
00:00-01:00 HOUR	0.0066	0.0071	0.0056	
01:00-02:00 HOUR	0.0062	0.0066	0.0057	
02:00-03:00 HOUR	0.0063	0.0060	0.0052	
03:00-04:00 HOUR	0.0063	0.0062	0.0051	
04:00-05:00 HOUR	0.0068	0.0064	0.0048	
05:00-06:00 HOUR	0.0071	0.0063	0.0052	
06:00-07:00 HOUR	0.0072	0.0057	0.0055	
07:00-08:00 HOUR	0.0071	0.0055	0.0063	

SEPTEMBER 19, 2022

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BY SGS GROUP (THAILAND) CO., LTD.

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## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: ECO DETECT RESOURCES (THAILAND) LTD.
<b>ADDRESS</b>	: 555 RASA TOWER II, 12TH FLOOR, UNIT 103 PHANLOYOTHN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
<b>CONTACT INFORMATION</b>	: TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net
<b>MEASURING PLACE</b>	: POARHC2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47T 727036E 1751971N)
<b>MEASURING TYPE</b>	: AMBIENT (AIR)
<b>MEASURING DATE</b>	: SEPTEMBER 4-7, 2022
<b>MEASURING TIME</b>	: *
<b>MEASURING METHOD</b>	: CHEMILUMINESCENCE
<b>MEASURED BY</b>	: [REDACTED]
<b>RECEIVED DATE</b>	: SEPTEMBER 4-7, 2022
<b>ANALYTICAL DATE</b>	: SEPTEMBER 4-7, 2022
<b>REPORT NO.</b>	: 2022-1072050
<b>WORK NO.</b>	: 2022-006609
<b>ANALYSIS NO.</b>	: T22AR977-0007 - T22AR977-0008

		RESULT (ppm)		
		NITROGEN DIOXIDE		
		POARJNC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)		
TIME *		SEPTEMBER 4 - 5, 2022 T22AR977-0007	SEPTEMBER 5 - 6, 2022 T22AR977-0008	SEPTEMBER 6 - 7, 2022 T22AR977-0009
08:00-09:00	HOUR	0.0071	0.0070	0.0078
09:00-10:00	HOUR	0.0061	0.0078	0.0087
10:00-11:00	HOUR	0.0058	0.0090	0.0093
11:00-12:00	HOUR	0.0049	0.0102	0.0096
12:00-13:00	HOUR	0.0045	0.0106	0.0094
13:00-14:00	HOUR	0.0038	0.0107	0.0088
14:00-15:00	HOUR	0.0038	0.0100	0.0079
15:00-16:00	HOUR	0.0038	0.0095	0.0074
16:00-17:00	HOUR	0.0044	0.0087	0.0079
17:00-18:00	HOUR	0.0050	0.0084	0.0081
18:00-19:00	HOUR	0.0057	0.0075	0.0080
19:00-20:00	HOUR	0.0059	0.0072	0.0072
20:00-21:00	HOUR	0.0060	0.0066	0.0073
21:00-22:00	HOUR	0.0057	0.0068	0.0068
22:00-23:00	HOUR	0.0053	0.0063	0.0060
23:00-00:00	HOUR	0.0055	0.0060	0.0048
00:00-01:00	HOUR	0.0062	0.0055	0.0046
01:00-02:00	HOUR	0.0069	0.0053	0.0044
02:00-03:00	HOUR	0.0074	0.0059	0.0046
03:00-04:00	HOUR	0.0075	0.0058	0.0048
04:00-05:00	HOUR	0.0073	0.0060	0.0058
05:00-06:00	HOUR	0.0072	0.0058	0.0065
06:00-07:00	HOUR	0.0071	0.0061	0.0076
07:00-08:00	HOUR	0.0068	0.0067	0.0081

SEPTEMBER 19, 2022

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BY SGS GROUP (THAILAND) CO., LTD.

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## ANALYSIS REPORT

CUSTOMER NAME	: ECO EFFICIENT RESOURCES (THAILAND) LTD.		
ADDRESS	: 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHANOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900		
CONTACT INFORMATION	: TEL : 0 20937 1124-9 e-mail : amucha@ecothai.net		
MEASURING PLACE	: POARHC3 : BAN TUNG YAI (UTM WGS 84 ZONE 47G 729475E 1728613N)	RECEIVED DATE	: SEPTEMBER 8-11, 2022
MEASURING TYPE	: AMBIENT (AIR)	ANALYTICAL DATE	: SEPTEMBER 8-11, 2022
MEASURING DATE	: SEPTEMBER 8-11, 2022	REPORT NO.	: 2022-U07048
MEASURING TIME	: *	WORK NO.	: 2022-006609
MEASURING METHOD	: CHEMILUMINESCENCE	ANALYSIS NO.	: T2A8R977-0004 - T2A8R977-0006
MEASURED BY	: [REDACTED]		

TIME *	NITROGEN DIOXIDE		
	POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)		
	SEPTEMBER 8 - 9, 2022	SEPTEMBER 9 - 10, 2022	SEPTEMBER 10 - 11, 2022
	T22AR977-0004	T22AR977-0005	T22AR977-0006
08:00-09:00 HOUR	0.0036	0.0056	0.0027
09:00-10:00 HOUR	0.0047	0.0032	0.0032
10:00-11:00 HOUR	0.0056	0.0046	0.0036
11:00-12:00 HOUR	0.0071	0.0035	0.0035
12:00-13:00 HOUR	0.0076	0.0036	0.0043
13:00-14:00 HOUR	0.0075	0.0039	0.0051
14:00-15:00 HOUR	0.0074	0.0042	0.0058
15:00-16:00 HOUR	0.0066	0.0044	0.0057
16:00-17:00 HOUR	0.0051	0.0047	0.0053
17:00-18:00 HOUR	0.0032	0.0047	0.0051
18:00-19:00 HOUR	0.0026	0.0052	0.0045
19:00-20:00 HOUR	0.0021	0.0062	0.0048
20:00-21:00 HOUR	0.0022	0.0075	0.0045
21:00-22:00 HOUR	0.0014	0.0082	0.0047
22:00-23:00 HOUR	0.0016	0.0083	0.0045
23:00-00:00 HOUR	0.0019	0.0072	0.0045
00:00-01:00 HOUR	0.0023	0.0065	0.0046
01:00-02:00 HOUR	0.0026	0.0056	0.0044
02:00-03:00 HOUR	0.0031	0.0053	0.0046
03:00-04:00 HOUR	0.0035	0.0053	0.0048
04:00-05:00 HOUR	0.0043	0.0039	0.0050
05:00-06:00 HOUR	0.0048	0.0028	0.0050
06:00-07:00 HOUR	0.0051	0.0015	0.0050
07:00-08:00 HOUR	0.0049	0.0019	0.0053

SEPTMBER 19, 2022

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## ANALYSIS REPORT

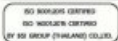
**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@eco thai.net  
**MEASURING PLACE** : POARJHC 1 : BAN KHAO NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : SEPTEMBER 8-11, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : UV FLUORESCENCE  
**MEASURED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 8-11, 2022  
**ANALYTICAL DATE** : SEPTEMBER 8-11, 2022  
**REPORT NO.** : 2022-U072051  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0001 - T22AR977-0003

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	SEPTEMBER 8 - 9, 2022 T22AR977-0001	SEPTEMBER 9 - 10, 2022 T22AR977-0002	SEPTEMBER 10 - 11, 2022 T22AR977-0003
08:00-09:00 HOUR	0.0006	0.0015	0.0011
09:00-10:00 HOUR	0.0010	0.0014	0.0010
10:00-11:00 HOUR	0.0013	0.0011	0.0011
11:00-12:00 HOUR	0.0016	0.0009	0.0013
12:00-13:00 HOUR	0.0016	0.0008	0.0016
13:00-14:00 HOUR	0.0017	0.0008	0.0019
14:00-15:00 HOUR	0.0017	0.0009	0.0020
15:00-16:00 HOUR	0.0018	0.0009	0.0020
16:00-17:00 HOUR	0.0018	0.0011	0.0020
17:00-18:00 HOUR	0.0018	0.0012	0.0017
18:00-19:00 HOUR	0.0021	0.0016	0.0017
19:00-20:00 HOUR	0.0022	0.0019	0.0017
20:00-21:00 HOUR	0.0020	0.0021	0.0019
21:00-22:00 HOUR	0.0017	0.0020	0.0018
22:00-23:00 HOUR	0.0013	0.0018	0.0017
23:00-00:00 HOUR	0.0010	0.0018	0.0016
00:00-01:00 HOUR	0.0009	0.0017	0.0017
01:00-02:00 HOUR	0.0008	0.0014	0.0018
02:00-03:00 HOUR	0.0010	0.0010	0.0018
03:00-04:00 HOUR	0.0013	0.0009	0.0015
04:00-05:00 HOUR	0.0015	0.0009	0.0012
05:00-06:00 HOUR	0.0016	0.0009	0.0010
06:00-07:00 HOUR	0.0015	0.0009	0.0009
07:00-08:00 HOUR	0.0016	0.0010	0.0008
AVERAGE 24 HOUR	0.0015	0.0013	0.0015

[REDACTED]  
LABORATORY SUPERVISOR

SEPTEMBER 19, 2022



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## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@eco thai.net  
**MEASURING PLACE** : POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : SEPTEMBER 4-7, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : UV FLUORESCENCE  
**MEASURED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 4-7, 2022  
**ANALYTICAL DATE** : SEPTEMBER 4-7, 2022  
**REPORT NO.** : 2022-U072053  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0007 - T22AR977-0009

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	SEPTEMBER 4 - 5, 2022 T22AR977-0007	SEPTEMBER 5 - 6, 2022 T22AR977-0008	SEPTEMBER 6 - 7, 2022 T22AR977-0009
08:00-09:00 HOUR	0.0010	0.0014	0.0019
09:00-10:00 HOUR	0.0010	0.0017	0.0019
10:00-11:00 HOUR	0.0010	0.0018	0.0017
11:00-12:00 HOUR	0.0009	0.0020	0.0016
12:00-13:00 HOUR	0.0009	0.0020	0.0014
13:00-14:00 HOUR	0.0008	0.0021	0.0012
14:00-15:00 HOUR	0.0008	0.0021	0.0012
15:00-16:00 HOUR	0.0009	0.0020	0.0015
16:00-17:00 HOUR	0.0009	0.0020	0.0018
17:00-18:00 HOUR	0.0009	0.0017	0.0019
18:00-19:00 HOUR	0.0008	0.0017	0.0019
19:00-20:00 HOUR	0.0009	0.0016	0.0018
20:00-21:00 HOUR	0.0010	0.0018	0.0020
21:00-22:00 HOUR	0.0013	0.0019	0.0019
22:00-23:00 HOUR	0.0015	0.0019	0.0020
23:00-00:00 HOUR	0.0017	0.0018	0.0017
00:00-01:00 HOUR	0.0018	0.0016	0.0017
01:00-02:00 HOUR	0.0018	0.0012	0.0013
02:00-03:00 HOUR	0.0018	0.0010	0.0011
03:00-04:00 HOUR	0.0016	0.0009	0.0010
04:00-05:00 HOUR	0.0014	0.0009	0.0010
05:00-06:00 HOUR	0.0013	0.0010	0.0010
06:00-07:00 HOUR	0.0012	0.0013	0.0009
07:00-08:00 HOUR	0.0012	0.0017	0.0009
AVERAGE 24 HOUR	0.0012	0.0016	0.0015

[REDACTED]  
LABORATORY SUPERVISOR

SEPTEMBER 19, 2022



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## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@eco thai.net  
**MEASURING PLACE** : POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : SEPTEMBER 8-11, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : UV FLUORESCENCE  
**MEASURED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 8-11, 2022  
**ANALYTICAL DATE** : SEPTEMBER 8-11, 2022  
**REPORT NO.** : 2022-U072052  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0004 - T22AR977-0006

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	SEPTEMBER 8 - 9, 2022 T22AR977-0004	SEPTEMBER 9 - 10, 2022 T22AR977-0005	SEPTEMBER 10 - 11, 2022 T22AR977-0006
08:00-09:00 HOUR	0.0015	0.0011	0.0008
09:00-10:00 HOUR	0.0016	0.0010	0.0008
10:00-11:00 HOUR	0.0017	0.0010	0.0007
11:00-12:00 HOUR	0.0017	0.0010	0.0007
12:00-13:00 HOUR	0.0019	0.0010	0.0008
13:00-14:00 HOUR	0.0019	0.0011	0.0010
14:00-15:00 HOUR	0.0019	0.0010	0.0013
15:00-16:00 HOUR	0.0019	0.0009	0.0015
16:00-17:00 HOUR	0.0017	0.0010	0.0016
17:00-18:00 HOUR	0.0017	0.0010	0.0017
18:00-19:00 HOUR	0.0015	0.0011	0.0017
19:00-20:00 HOUR	0.0013	0.0010	0.0017
20:00-21:00 HOUR	0.0011	0.0012	0.0018
21:00-22:00 HOUR	0.0010	0.0015	0.0018
22:00-23:00 HOUR	0.0009	0.0017	0.0018
23:00-00:00 HOUR	0.0009	0.0018	0.0018
00:00-01:00 HOUR	0.0008	0.0016	0.0019
01:00-02:00 HOUR	0.0008	0.0014	0.0020
02:00-03:00 HOUR	0.0008	0.0011	0.0017
03:00-04:00 HOUR	0.0008	0.0010	0.0013
04:00-05:00 HOUR	0.0009	0.0010	0.0010
05:00-06:00 HOUR	0.0009	0.0010	0.0009
06:00-07:00 HOUR	0.0010	0.0009	0.0009
07:00-08:00 HOUR	0.0010	0.0009	0.0009
AVERAGE 24 HOUR	0.0013	0.0011	0.0013

[REDACTED]  
LABORATORY SUPERVISOR

SEPTEMBER 19, 2022



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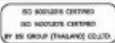
**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : POARJHC 1: BAN KHAO NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*  
**SAMPLING TIME** : \*, \*\*  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : SEPTEMBER 12, 2022  
**ANALYTICAL DATE** : SEPTEMBER 12-27, 2022  
**REPORT NO.** : 2022-U076146  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0001 - T22AR977-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD
			POARJHC 1 : BAN KHAO NOI		
			* T22AR977-0001	** T22AR977-0002	
BENZENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.29	0.32	≤ 7.6
ETHYLBENZENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.24	< 0.17	-
TOLUENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.86	0.52	-
XYLENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	< 0.52	< 0.52	-
SAMPLE CONDITION			COMPLETE	COMPLETE	

**REMARK** :  
**RESULT** : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
**REGULATORY STANDARD** : AMBIENT AIR QUALITY STANDARD, NOTIFICATION OF THE POLLUTION CONTROL DEPARTMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.126 SPECIAL PART 130, DATED JANUARY 27, B.E. 2552 (2009).  
\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 8, 2022 TO 08:30 HOUR ON SEPTEMBER 9, 2022.  
\*\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 9, 2022 TO 08:30 HOUR ON SEPTEMBER 10, 2022.

LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



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#### ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : POARJHC 2 : PAH RAY RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036.92E 1731971.86N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*  
**SAMPLING TIME** : \*, \*\*  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : SEPTEMBER 12, 2022  
**ANALYTICAL DATE** : SEPTEMBER 12-27, 2022  
**REPORT NO.** : 2022-U076154  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0007 - T22AR977-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD
			POARJHC 2 : PAH RAY RAI THONG TEMPLE		
			* T22AR977-0007	** T22AR977-0008	
BENZENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.32	0.26	≤ 7.6
ETHYLBENZENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.26	< 0.17	-
TOLUENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	1.32	0.69	-
XYLENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	< 0.52	< 0.52	-
SAMPLE CONDITION			COMPLETE	COMPLETE	

**REMARK** :  
**RESULT** : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
**REGULATORY STANDARD** : AMBIENT AIR QUALITY STANDARD, NOTIFICATION OF THE POLLUTION CONTROL DEPARTMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.126 SPECIAL PART 130, DATED JANUARY 27, B.E. 2552 (2009).  
\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 4, 2022 TO 08:30 HOUR ON SEPTEMBER 5, 2022.  
\*\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 5, 2022 TO 08:30 HOUR ON SEPTEMBER 6, 2022.

LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



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#### ANALYSIS REPORT

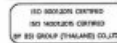
**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : POARJHC 1: BAN KHAO NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*  
**SAMPLING TIME** : \*  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : SEPTEMBER 12, 2022  
**ANALYTICAL DATE** : SEPTEMBER 12-27, 2022  
**REPORT NO.** : 2022-U076148  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD
			POARJHC1 BAN KHAO NOI		
			T22AR977-0003		
BENZENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.33		≤ 7.6
ETHYLBENZENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	< 0.17		-
TOLUENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.58		-
XYLENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	< 0.52		-
SAMPLE CONDITION			COMPLETE		

**REMARK** :  
**RESULT** : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
**REGULATORY STANDARD** : AMBIENT AIR QUALITY STANDARD, NOTIFICATION OF THE POLLUTION CONTROL DEPARTMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.126 SPECIAL PART 130, DATED JANUARY 27, B.E. 2552 (2009).  
\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 10, 2022 TO 08:30 HOUR ON SEPTEMBER 11, 2022.

LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



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#### ANALYSIS REPORT

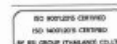
**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : POARJHC 2 : PAH RAY RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036.92E 1731971.86N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*  
**SAMPLING TIME** : \*  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : SEPTEMBER 12, 2022  
**ANALYTICAL DATE** : SEPTEMBER 12-27, 2022  
**REPORT NO.** : 2022-U076156  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD
			POARJHC 2 : PAH RAY RAI THONG TEMPLE		
			T22AR977-0009		
BENZENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.36		≤ 7.6
ETHYLBENZENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.69		-
TOLUENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	2.67		-
XYLENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.73		-
SAMPLE CONDITION			COMPLETE		

**REMARK** :  
**RESULT** : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
**REGULATORY STANDARD** : AMBIENT AIR QUALITY STANDARD, NOTIFICATION OF THE POLLUTION CONTROL DEPARTMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.126 SPECIAL PART 130, DATED JANUARY 27, B.E. 2552 (2009).  
\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 6, 2022 TO 08:30 HOUR ON SEPTEMBER 7, 2022.

LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



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• REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.

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## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecoohk.net  
**SAMPLING SOURCE** : POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*  
**SAMPLING TIME** : \*, \*\*  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 12, 2022  
**ANALYTICAL DATE** : SEPTEMBER 12-27, 2022  
**REPORT NO.** : 2022-U076150  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0004 - T22AR977-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD
			POARJHC3 BAN TUNG YAI		
			* T22AR977-0004	** T22AR977-0005	
BENZENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.27	0.31	≤ 7.6
ETHYLBENZENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.19	0.22	-
TOLUENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.70	0.99	-
XYLENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	< 0.52	< 0.52	-
SAMPLE CONDITION			COMPLETE	COMPLETE	

**REMARK** :  
**RESULT** : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
**REGULATORY STANDARD** : AMBIENT AIR QUALITY STANDARD, NOTIFICATION OF THE POLLUTION CONTROL DEPARTMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.126 SPECIAL PART 130, DATED JANUARY 27, B.E. 2552 (2009).  
\* : SAMPLING FROM 09:30 HOUR ON SEPTEMBER 8, 2022 TO 09:30 HOUR ON SEPTEMBER 9, 2022.  
\*\* : SAMPLING FROM 09:30 HOUR ON SEPTEMBER 9, 2022 TO 09:30 HOUR ON SEPTEMBER 10, 2022.

LABORATORY SUPERVISOR

SEPTEMBER 29, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecoohk.net  
**SAMPLING SOURCE** : POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*  
**SAMPLING TIME** : \*  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 12, 2022  
**ANALYTICAL DATE** : SEPTEMBER 12-27, 2022  
**REPORT NO.** : 2022-U076152  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		REGULATORY STANDARD
			POARJHC3 BAN TUNG YAI	T22AR977-0006	
BENZENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.37		≤ 7.6
ETHYLBENZENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	< 0.17		-
TOLUENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	0.66		-
XYLENE	µg/m <sup>3</sup>	US EPA METHOD TO-15	< 0.52		-
SAMPLE CONDITION			COMPLETE		

**REMARK** :  
**RESULT** : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
**REGULATORY STANDARD** : AMBIENT AIR QUALITY STANDARD, NOTIFICATION OF THE POLLUTION CONTROL DEPARTMENT, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL.126 SPECIAL PART 130, DATED JANUARY 27, B.E. 2552 (2009).  
\* : SAMPLING FROM 09:30 HOUR ON SEPTEMBER 10, 2022 TO 09:30 HOUR ON SEPTEMBER 11, 2022.

LABORATORY SUPERVISOR

SEPTEMBER 29, 2022





### ANALYSIS REPORT

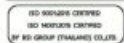
**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHI ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**MEASURING PLACE** : POARJHC 1 : BAN KHAI NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : SEPTEMBER 8-11, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT  
**MEASURED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 8-11, 2022  
**ANALYTICAL DATE** : SEPTEMBER 8-11, 2022  
**REPORT NO.** : 2022-U072054  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0001 - T22AR977-0003

TIME *	RESULT (m/s)					
	POARJHC 1 : BAN KHAI NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)					
	SEPTEMBER 8 - 9, 2022		SEPTEMBER 9 - 10, 2022		SEPTEMBER 10 - 11, 2022	
	T22AR977-0001		T22AR977-0002		T22AR977-0003	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	0.7	ENE	0.7	ENE	0.9	NE
09:00-10:00 HOUR	0.8	E	0.8	NE	0.9	NNE
10:00-11:00 HOUR	0.7	E	0.8	NE	0.7	NE
11:00-12:00 HOUR	0.6	ENE	0.9	NE	0.8	NNE
12:00-13:00 HOUR	0.7	ENE	0.7	NE	0.6	ENE
13:00-14:00 HOUR	0.8	E	0.9	E	1.0	ENE
14:00-15:00 HOUR	0.8	NNE	0.7	E	0.9	E
15:00-16:00 HOUR	0.8	E	0.6	ENE	0.8	E
16:00-17:00 HOUR	0.8	NE	0.5	NNE	1.0	E
17:00-18:00 HOUR	0.8	NE	0.5	NE	0.6	ENE
18:00-19:00 HOUR	0.7	NE	0.5	NNE	0.7	NE
19:00-20:00 HOUR	0.6	ENE	0.5	ENE	0.7	NE
20:00-21:00 HOUR	0.6	NE	0.6	NE	0.7	NE
21:00-22:00 HOUR	0.7	E	1.0	ENE	0.9	ENE
22:00-23:00 HOUR	0.8	ENE	0.7	NE	0.7	ENE
23:00-00:00 HOUR	1.1	NE	0.9	NE	0.6	ENE
00:00-01:00 HOUR	0.9	NE	0.6	ENE	0.7	NE
01:00-02:00 HOUR	0.8	E	0.7	ENE	0.6	NNE
02:00-03:00 HOUR	0.7	NE	0.7	E	0.8	ENE
03:00-04:00 HOUR	0.7	NNE	0.8	E	0.9	NE
04:00-05:00 HOUR	0.7	E	0.9	E	0.6	NE
05:00-06:00 HOUR	0.5	ENE	0.7	NE	1.0	E
06:00-07:00 HOUR	0.5	NNE	1.1	ENE	0.9	ENE
07:00-08:00 HOUR	0.7	NNE	0.7	ENE	0.8	E

[REDACTED]  
LABORATORY SUPERVISOR

SEPTEMBER 19, 2022



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### ANALYSIS REPORT

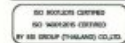
**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHI ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**MEASURING PLACE** : POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : SEPTEMBER 4-7, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT  
**MEASURED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 4-7, 2022  
**ANALYTICAL DATE** : SEPTEMBER 4-7, 2022  
**REPORT NO.** : 2022-U072059  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0007 - T22AR977-0009

TIME *	RESULT (m/s)					
	POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)					
	SEPTEMBER 4 - 5, 2022		SEPTEMBER 5 - 6, 2022		SEPTEMBER 6 - 7, 2022	
	T22AR977-0007		T22AR977-0008		T22AR977-0009	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	0.9	E	0.9	SSE	0.9	SE
09:00-10:00 HOUR	0.8	SSE	1.1	S	0.7	ESE
10:00-11:00 HOUR	0.6	SSE	0.6	S	0.9	SE
11:00-12:00 HOUR	0.9	SSE	0.5	E	0.6	ESE
12:00-13:00 HOUR	1.2	S	0.5	ESE	1.2	SE
13:00-14:00 HOUR	0.7	SSW	0.8	S	1.0	SSE
14:00-15:00 HOUR	0.9	S	1.1	SSE	0.5	S
15:00-16:00 HOUR	1.2	E	0.5	SE	0.9	S
16:00-17:00 HOUR	0.5	ESE	1.1	SE	0.9	E
17:00-18:00 HOUR	1.0	SE	0.7	SE	0.7	ESE
18:00-19:00 HOUR	0.8	SSE	0.5	S	1.2	S
19:00-20:00 HOUR	0.5	ESE	1.0	SSW	0.5	ESE
20:00-21:00 HOUR	1.0	SSW	0.9	SE	0.7	ESE
21:00-22:00 HOUR	0.7	SSW	0.5	SSE	0.5	E
22:00-23:00 HOUR	1.2	SE	1.1	SSW	0.5	S
23:00-00:00 HOUR	0.6	ESE	0.9	SSE	1.1	S
00:00-01:00 HOUR	1.0	S	1.0	S	0.9	S
01:00-02:00 HOUR	0.5	SSE	0.7	S	0.5	ESE
02:00-03:00 HOUR	1.1	S	0.8	S	0.5	SE
03:00-04:00 HOUR	0.9	SE	0.6	SSE	0.7	ESE
04:00-05:00 HOUR	0.7	SE	0.9	ESE	0.5	E
05:00-06:00 HOUR	0.8	E	1.1	ESE	0.7	SSE
06:00-07:00 HOUR	0.5	SSW	1.1	E	0.7	SSE
07:00-08:00 HOUR	0.8	ESE	0.5	SE	1.0	ESE

[REDACTED]  
LABORATORY SUPERVISOR

SEPTEMBER 19, 2022



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### ANALYSIS REPORT

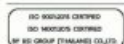
**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHI ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**MEASURING PLACE** : POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : SEPTEMBER 8-11, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT  
**MEASURED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 8-11, 2022  
**ANALYTICAL DATE** : SEPTEMBER 8-11, 2022  
**REPORT NO.** : 2022-U072056  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR977-0004 - T22AR977-0006

TIME *	RESULT (m/s)					
	POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)					
	SEPTEMBER 8 - 9, 2022		SEPTEMBER 9 - 10, 2022		SEPTEMBER 10 - 11, 2022	
	T22AR977-0004		T22AR977-0005		T22AR977-0006	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	0.5	NE	0.7	E	0.6	ESE
09:00-10:00 HOUR	0.8	ENE	0.9	E	0.6	E
10:00-11:00 HOUR	0.7	E	0.9	NE	0.8	ENE
11:00-12:00 HOUR	0.7	E	0.7	ENE	0.8	NE
12:00-13:00 HOUR	0.8	ENE	0.7	NE	0.7	NE
13:00-14:00 HOUR	0.7	E	0.5	ENE	0.6	ENE
14:00-15:00 HOUR	0.8	NE	0.9	ESE	0.9	E
15:00-16:00 HOUR	0.9	ENE	0.8	E	1.0	ENE
16:00-17:00 HOUR	0.7	ENE	0.8	ESE	1.0	NNE
17:00-18:00 HOUR	0.7	NE	0.7	E	1.2	E
18:00-19:00 HOUR	1.2	ENE	0.7	E	1.3	NE
19:00-20:00 HOUR	1.0	NNE	1.1	NE	1.1	ESE
20:00-21:00 HOUR	1.2	ESE	0.7	NNE	0.8	NE
21:00-22:00 HOUR	0.9	ENE	1.0	NE	0.6	E
22:00-23:00 HOUR	0.9	E	1.1	NE	0.7	NNE
23:00-00:00 HOUR	0.8	NNE	1.1	NE	0.7	E
00:00-01:00 HOUR	0.7	NE	0.9	ENE	0.8	ESE
01:00-02:00 HOUR	0.9	NE	0.8	ENE	0.7	NNE
02:00-03:00 HOUR	0.9	NE	0.7	NE	0.6	E
03:00-04:00 HOUR	0.8	E	0.9	NE	0.5	ENE
04:00-05:00 HOUR	0.6	NNE	0.8	NNE	0.8	NE
05:00-06:00 HOUR	0.5	E	1.0	NE	0.8	NE
06:00-07:00 HOUR	0.6	E	0.7	E	0.7	ESE
07:00-08:00 HOUR	0.9	E	0.7	NE	1.0	ENE

[REDACTED]  
LABORATORY SUPERVISOR

SEPTEMBER 19, 2022



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## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecoel.net  
**MEASURING SOURCE** : POARJHC 1 : BAN KHAI NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)  
**MEASURING TYPE** : AMBIENT (NOISE)  
**MEASURING DATE** : SEPTEMBER 8-11, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : INTEGRATED SOUND LEVEL METER  
**MEASURED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 8-11, 2022  
**ANALYTICAL DATE** : SEPTEMBER 8-11, 2022  
**REPORT NO.** : 2022-U072066  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR978-0001 - T22AR978-0003

TIME*	RESULT dB(A)		
	POARJHC 1 : BAN KHAI NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)		
	SEPTEMBER 8 - 9, 2022		
	T22AR978-0001		
	L <sub>day</sub> 1 hour	L <sub>even</sub> 1 hour	L <sub>night</sub> 1 hour
07:00-08:00 HOUR	51.9	68.3	49.4
08:00-09:00 HOUR	52.9	70.9	49.0
09:00-10:00 HOUR	53.0	85.2	47.0
10:00-11:00 HOUR	49.7	69.5	47.3
11:00-12:00 HOUR	49.5	70.6	46.7
12:00-13:00 HOUR	49.3	67.0	46.6
13:00-14:00 HOUR	47.9	66.4	45.8
14:00-15:00 HOUR	47.6	63.6	45.5
15:00-16:00 HOUR	49.0	75.8	45.8
16:00-17:00 HOUR	51.7	67.9	46.6
17:00-18:00 HOUR	50.2	67.9	47.0
18:00-19:00 HOUR	51.5	70.7	46.9
19:00-20:00 HOUR	47.4	59.5	46.3
20:00-21:00 HOUR	49.5	73.2	46.5
21:00-22:00 HOUR	50.8	67.2	48.4
22:00-23:00 HOUR	51.0	62.3	48.7
23:00-00:00 HOUR	51.5	57.0	50.7
00:00-01:00 HOUR	50.3	52.6	49.5
01:00-02:00 HOUR	49.2	58.9	48.2
02:00-03:00 HOUR	48.1	63.2	47.3
03:00-04:00 HOUR	48.6	62.9	47.6
04:00-05:00 HOUR	51.2	62.4	50.6
05:00-06:00 HOUR	50.9	65.6	50.5
06:00-07:00 HOUR	51.2	71.5	46.9
L <sub>day</sub> 24 hours		50.4	
L <sub>night</sub>		56.8	

TIME*	RESULT dB(A)		
	POARJHC 1 : BAN KHAI NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)		
	SEPTEMBER 9 - 10, 2022		
	T22AR978-0002		
	L <sub>day</sub> 1 hour	L <sub>even</sub> 1 hour	L <sub>night</sub> 1 hour
07:00-08:00 HOUR	50.7	74.5	46.2
08:00-09:00 HOUR	51.6	69.4	45.8
09:00-10:00 HOUR	49.7	72.4	45.3
10:00-11:00 HOUR	54.5	81.9	45.2
11:00-12:00 HOUR	50.3	81.2	44.9
12:00-13:00 HOUR	48.1	71.9	44.5
13:00-14:00 HOUR	46.2	69.5	44.3
14:00-15:00 HOUR	52.7	80.5	44.9
15:00-16:00 HOUR	55.3	81.1	47.2
16:00-17:00 HOUR	53.5	82.7	47.1
17:00-18:00 HOUR	51.3	67.0	48.6
18:00-19:00 HOUR	51.5	68.4	47.1
19:00-20:00 HOUR	52.8	57.5	52.3
20:00-21:00 HOUR	53.2	59.4	52.7
21:00-22:00 HOUR	52.3	58.8	51.1
22:00-23:00 HOUR	53.8	61.9	52.7
23:00-00:00 HOUR	53.6	57.8	52.8
00:00-01:00 HOUR	51.3	56.0	50.4
01:00-02:00 HOUR	50.3	57.3	49.4
02:00-03:00 HOUR	51.1	60.5	48.6
03:00-04:00 HOUR	53.4	60.8	51.4
04:00-05:00 HOUR	53.4	60.8	51.4
05:00-06:00 HOUR	52.7	63.8	52.0
06:00-07:00 HOUR	52.1	72.0	49.6
L <sub>day</sub> 24 hours		52.3	
L <sub>night</sub>		58.9	

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## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecoel.net  
**MEASURING SOURCE** : POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)  
**MEASURING TYPE** : AMBIENT (NOISE)  
**MEASURING DATE** : SEPTEMBER 4-7, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : INTEGRATED SOUND LEVEL METER  
**MEASURED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 4-7, 2022  
**ANALYTICAL DATE** : SEPTEMBER 4-7, 2022  
**REPORT NO.** : 2022-U072066  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AR978-0007 - T22AR978-0009

TIME*	RESULT dB(A)		
	POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)		
	SEPTEMBER 4 - 5, 2022		
	T22AR978-0007		
	L <sub>day</sub> 1 hour	L <sub>even</sub> 1 hour	L <sub>night</sub> 1 hour
07:00-08:00 HOUR	46.4	71.4	41.8
08:00-09:00 HOUR	45.7	61.4	42.2
09:00-10:00 HOUR	46.4	67.3	42.1
10:00-11:00 HOUR	47.7	66.3	43.1
11:00-12:00 HOUR	51.0	77.4	44.0
12:00-13:00 HOUR	50.5	71.0	40.7
13:00-14:00 HOUR	50.2	67.1	43.6
14:00-15:00 HOUR	49.5	68.0	44.3
15:00-16:00 HOUR	50.7	65.4	46.1
16:00-17:00 HOUR	49.0	66.9	42.8
17:00-18:00 HOUR	45.1	61.6	40.7
18:00-19:00 HOUR	45.0	68.1	40.0
19:00-20:00 HOUR	43.6	60.9	39.9
20:00-21:00 HOUR	44.4	63.9	40.5
21:00-22:00 HOUR	47.5	60.3	43.5
22:00-23:00 HOUR	47.4	58.3	44.2
23:00-00:00 HOUR	43.3	62.6	40.8
00:00-01:00 HOUR	43.6	63.8	41.9
01:00-02:00 HOUR	42.9	55.6	41.6
02:00-03:00 HOUR	43.0	58.8	42.1
03:00-04:00 HOUR	42.7	59.6	41.6
04:00-05:00 HOUR	43.9	57.3	42.0
05:00-06:00 HOUR	44.7	60.5	40.1
06:00-07:00 HOUR	46.5	62.0	41.4
L <sub>day</sub> 24 hours		47.1	
L <sub>night</sub>		51.7	

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2022-U072066

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1/3





TIME*	RESULT dB(A)		
	POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)		
	SEPTEMBER 5 - 6, 2022		
	T22AR97B-0008		
	Lavg 1 hour	Lmax 1 hour	L90 1 hour
07:00-08:00 HOUR	50.3	78.5	43.5
08:00-09:00 HOUR	45.3	63.1	39.7
09:00-10:00 HOUR	50.0	67.9	40.9
10:00-11:00 HOUR	48.0	64.8	43.6
11:00-12:00 HOUR	48.6	73.7	43.4
12:00-13:00 HOUR	49.1	70.0	41.7
13:00-14:00 HOUR	51.1	69.0	45.3
14:00-15:00 HOUR	50.0	70.5	44.2
15:00-16:00 HOUR	50.0	69.0	45.0
16:00-17:00 HOUR	49.6	71.5	44.1
17:00-18:00 HOUR	49.6	78.1	42.0
18:00-19:00 HOUR	45.6	73.1	41.3
19:00-20:00 HOUR	45.1	63.2	41.1
20:00-21:00 HOUR	44.5	69.9	41.0
21:00-22:00 HOUR	43.8	56.6	41.6
22:00-23:00 HOUR	44.1	58.9	41.2
23:00-00:00 HOUR	43.5	56.2	40.9
00:00-01:00 HOUR	42.0	60.7	40.3
01:00-02:00 HOUR	41.2	61.8	39.6
02:00-03:00 HOUR	40.5	61.8	38.8
03:00-04:00 HOUR	41.7	53.0	39.6
04:00-05:00 HOUR	41.8	54.2	40.2
05:00-06:00 HOUR	43.7	58.1	40.8
06:00-07:00 HOUR	45.2	67.9	40.7
Lavg 24 hours		47.3	
L90/24		50.8	

TIME*	RESULT dB(A)		
	POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)		
	SEPTEMBER 6 - 7, 2022		
	T22AR97B-0009		
	Lavg 1 hour	Lmax 1 hour	L90 1 hour
07:00-08:00 HOUR	49.1	74.7	43.0
08:00-09:00 HOUR	51.1	63.1	45.8
09:00-10:00 HOUR	50.9	65.9	45.3
10:00-11:00 HOUR	49.3	67.9	42.3
11:00-12:00 HOUR	44.7	67.0	37.3
12:00-13:00 HOUR	43.4	69.3	35.1
13:00-14:00 HOUR	44.5	64.1	39.8
14:00-15:00 HOUR	45.3	67.5	40.8
15:00-16:00 HOUR	44.5	67.4	41.1
16:00-17:00 HOUR	45.8	71.1	41.4
17:00-18:00 HOUR	44.5	64.2	41.0
18:00-19:00 HOUR	46.2	81.0	41.3
19:00-20:00 HOUR	45.3	67.3	41.3
20:00-21:00 HOUR	44.1	60.2	46.2
21:00-22:00 HOUR	48.5	64.3	44.6
22:00-23:00 HOUR	45.9	50.7	44.4
23:00-00:00 HOUR	47.4	51.3	45.3
00:00-01:00 HOUR	46.6	50.8	44.0
01:00-02:00 HOUR	47.2	52.5	44.7
02:00-03:00 HOUR	46.7	52.9	41.3
03:00-04:00 HOUR	46.1	57.7	41.1
04:00-05:00 HOUR	45.2	57.5	41.6
05:00-06:00 HOUR	45.1	59.6	41.9
06:00-07:00 HOUR	45.1	64.5	41.6
Lavg 24 hours		46.8	
L90/24		52.8	

LABORATORY SUPERVISOR

SEPTEMBER 19, 2022

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2/3

2022-U072068

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3/3

2022-U072068

# ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecochai.net  
**MEASURING SOURCE** : POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)  
**MEASURING TYPE** : AMBIENT (NOISE)  
**MEASURING DATE** : SEPTEMBER 8-11, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : INTEGRATED SOUND LEVEL METER  
**MEASURED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 8-11, 2022  
**ANALYTICAL DATE** : SEPTEMBER 8-11, 2022  
**REPORT NO.** : 2022-U072067  
**WORK NO.** : 2022-006009  
**ANALYSIS NO.** : T22AR97B-0004 - T22AR97B-0006

TIME*	RESULT dB(A)		
	POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)		
	SEPTEMBER 8 - 9, 2022		
	T22AR97B-0004		
	Lavg 1 hour	Lmax 1 hour	L90 1 hour
07:00-08:00 HOUR	54.4	69.3	49.5
08:00-09:00 HOUR	53.5	64.8	49.0
09:00-10:00 HOUR	54.1	76.6	49.7
10:00-11:00 HOUR	52.2	69.0	48.9
11:00-12:00 HOUR	52.6	65.7	48.7
12:00-13:00 HOUR	52.5	69.2	48.7
13:00-14:00 HOUR	53.0	65.7	49.0
14:00-15:00 HOUR	52.1	68.2	48.7
15:00-16:00 HOUR	52.1	66.5	48.7
16:00-17:00 HOUR	53.5	71.7	49.5
17:00-18:00 HOUR	52.8	69.3	49.4
18:00-19:00 HOUR	55.7	81.7	49.1
19:00-20:00 HOUR	55.3	73.7	50.3
20:00-21:00 HOUR	55.9	71.5	49.8
21:00-22:00 HOUR	54.5	62.6	49.5
22:00-23:00 HOUR	51.1	64.9	47.2
23:00-00:00 HOUR	49.7	63.6	47.1
00:00-01:00 HOUR	50.1	60.3	45.0
01:00-02:00 HOUR	49.5	60.6	46.5
02:00-03:00 HOUR	47.4	63.4	46.0
03:00-04:00 HOUR	47.5	57.5	46.6
04:00-05:00 HOUR	48.5	66.0	47.0
05:00-06:00 HOUR	51.0	68.3	47.4
06:00-07:00 HOUR	50.5	69.3	47.4
Lavg 24 hours		52.7	
L90/24		57.0	

TIME*	RESULT dB(A)		
	POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)		
	SEPTEMBER 9 - 10, 2022		
	T22AR97B-0005		
	Lavg 1 hour	Lmax 1 hour	L90 1 hour
07:00-08:00 HOUR	54.1	72.9	46.6
08:00-09:00 HOUR	56.7	73.7	47.9
09:00-10:00 HOUR	54.3	70.6	48.2
10:00-11:00 HOUR	53.3	74.3	49.0
11:00-12:00 HOUR	54.6	71.5	48.1
12:00-13:00 HOUR	49.5	68.5	46.5
13:00-14:00 HOUR	51.6	69.9	47.0
14:00-15:00 HOUR	54.2	71.1	47.5
15:00-16:00 HOUR	53.0	69.5	47.5
16:00-17:00 HOUR	52.6	71.6	48.0
17:00-18:00 HOUR	51.0	68.0	47.5
18:00-19:00 HOUR	50.9	72.6	47.5
19:00-20:00 HOUR	50.2	68.9	47.1
20:00-21:00 HOUR	49.7	62.9	47.5
21:00-22:00 HOUR	50.0	60.0	48.3
22:00-23:00 HOUR	48.8	61.5	47.7
23:00-00:00 HOUR	48.8	63.4	47.1
00:00-01:00 HOUR	48.1	64.1	46.6
01:00-02:00 HOUR	46.8	63.4	45.6
02:00-03:00 HOUR	46.9	62.4	45.5
03:00-04:00 HOUR	46.9	65.2	45.5
04:00-05:00 HOUR	47.9	69.0	46.4
05:00-06:00 HOUR	48.8	65.4	46.7
06:00-07:00 HOUR	52.8	72.1	47.6
Lavg 24 hours		51.8	
L90/24		56.1	

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2022-U072067

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2022-U072067

TIME*	RESULT dB(A)		
	POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)		
	SEPTEMBER 10 - 11, 2022		
	T22AR978-0006		
	Leq 1 hour	Lmax 1 hour	L90 1 hour
07:00-08:00 HOUR	54.3	70.8	49.9
08:00-09:00 HOUR	56.4	79.2	49.9
09:00-10:00 HOUR	58.2	77.9	52.0
10:00-11:00 HOUR	59.5	80.1	54.0
11:00-12:00 HOUR	55.9	77.5	50.0
12:00-13:00 HOUR	58.5	80.1	49.7
13:00-14:00 HOUR	56.6	76.4	51.3
14:00-15:00 HOUR	57.3	77.5	51.3
15:00-16:00 HOUR	59.9	77.6	53.3
16:00-17:00 HOUR	56.9	73.9	51.8
17:00-18:00 HOUR	52.2	73.1	47.8
18:00-19:00 HOUR	56.3	74.6	48.0
19:00-20:00 HOUR	54.0	73.7	49.7
20:00-21:00 HOUR	53.9	71.3	49.9
21:00-22:00 HOUR	58.5	71.4	57.3
22:00-23:00 HOUR	49.6	61.4	48.1
23:00-00:00 HOUR	47.7	54.1	44.9
00:00-01:00 HOUR	47.9	59.7	45.6
01:00-02:00 HOUR	48.1	60.3	46.1
02:00-03:00 HOUR	47.1	59.2	45.8
03:00-04:00 HOUR	47.2	60.8	46.1
04:00-05:00 HOUR	48.1	62.0	46.7
05:00-06:00 HOUR	50.2	66.7	47.1
06:00-07:00 HOUR	51.6	67.2	47.6
Leq 24 hours		55.4	
L90 24 hours		57.8	

[REDACTED]

LABORATORY SUPERVISOR

SEPTEMBER 19, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecorient.net  
**MEASURING PLACE** : POARJHC 1 : BAN KHAI NOI (UTH WGS 84 ZONE 47P 731559E 1732485N)  
**MEASURING TYPE** : AMBIENT (ANNOUNCE NOISE)  
**MEASURING DATE** : SEPTEMBER 8-11, 2022  
**MEASURING TIME** : \*  
**MEASURING EQUIPMENT** : INTEGRATED SOUND LEVEL METER AND CALCULATION  
**MEASURED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 8-11, 2022  
**ANALYTICAL DATE** : SEPTEMBER 8-11, 2022  
**REPORT NO.** : 2022-U072062  
**WORK NO.** : 2022-06609

**ANALYSIS NO.** : T22AR978-0001 - T22AR978-0003

DATE	TIME*	RESULT (dB(A))				
		POARJHC 1 : BAN KHAI NOI (UTH WGS 84 ZONE 47P 731559E 1732485N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOUNCE NOISE LEVEL
SEPTEMBER 8, 2022 T22AR978-0001	<b>DAY TIME</b> <sup>1)</sup>					
	07:00-08:00 HOUR	51.9 <sup>1)</sup>	48.2 <sup>2)</sup>	49.9 <sup>1)</sup>	46.6 <sup>2)</sup>	3.3
	08:00-09:00 HOUR	52.9 <sup>1)</sup>	48.2 <sup>2)</sup>	51.4 <sup>1)</sup>	46.6 <sup>2)</sup>	4.8
	09:00-10:00 HOUR	53.0 <sup>1)</sup>	48.2 <sup>2)</sup>	51.5 <sup>1)</sup>	46.6 <sup>2)</sup>	4.9
	10:00-11:00 HOUR	49.7 <sup>1)</sup>	48.2 <sup>2)</sup>	45.2 <sup>1)</sup>	46.6 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	11:00-12:00 HOUR	49.5 <sup>1)</sup>	48.2 <sup>2)</sup>	42.5 <sup>1)</sup>	46.6 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	12:00-13:00 HOUR	49.3 <sup>1)</sup>	48.2 <sup>2)</sup>	42.3 <sup>1)</sup>	46.6 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	13:00-14:00 HOUR	47.9 <sup>1)</sup>	48.2 <sup>2)</sup>	40.9 <sup>1)</sup>	46.6 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	14:00-15:00 HOUR	47.6 <sup>1)</sup>	48.2 <sup>2)</sup>	40.6 <sup>1)</sup>	46.6 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	15:00-16:00 HOUR	49.0 <sup>1)</sup>	48.2 <sup>2)</sup>	42.0 <sup>1)</sup>	46.6 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	16:00-17:00 HOUR	51.7 <sup>1)</sup>	48.2 <sup>2)</sup>	49.7 <sup>1)</sup>	46.6 <sup>2)</sup>	3.1
	17:00-18:00 HOUR	50.2 <sup>1)</sup>	48.2 <sup>2)</sup>	45.7 <sup>1)</sup>	46.6 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	18:00-19:00 HOUR	51.5 <sup>1)</sup>	48.2 <sup>2)</sup>	48.5 <sup>1)</sup>	46.6 <sup>2)</sup>	1.9
	19:00-20:00 HOUR	47.4 <sup>1)</sup>	48.2 <sup>2)</sup>	40.4 <sup>1)</sup>	46.6 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	20:00-21:00 HOUR	49.5 <sup>1)</sup>	48.2 <sup>2)</sup>	42.5 <sup>1)</sup>	46.6 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	21:00-22:00 HOUR	50.8 <sup>1)</sup>	48.2 <sup>2)</sup>	47.8 <sup>1)</sup>	46.6 <sup>2)</sup>	1.2
	<b>NIGHT TIME</b> <sup>2)</sup>					
	22:00-23:00 HOUR	53.7 <sup>1)</sup>	47.5 <sup>2)</sup>	55.2 <sup>1)</sup>	47.1 <sup>2)</sup>	8.1
	23:00-24:00 HOUR	48.2 <sup>1)</sup>	47.5 <sup>2)</sup>	44.2 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	24:00-01:00 HOUR	49.1 <sup>1)</sup>	47.5 <sup>2)</sup>	47.6 <sup>1)</sup>	47.1 <sup>2)</sup>	0.5
	01:00-02:00 HOUR	53.5 <sup>1)</sup>	47.5 <sup>2)</sup>	55.0 <sup>1)</sup>	47.1 <sup>2)</sup>	7.9
	02:00-03:00 HOUR	54.0 <sup>1)</sup>	47.5 <sup>2)</sup>	56.0 <sup>1)</sup>	47.1 <sup>2)</sup>	8.9
	03:00-04:00 HOUR	49.3 <sup>1)</sup>	47.5 <sup>2)</sup>	47.8 <sup>1)</sup>	47.1 <sup>2)</sup>	0.7
	04:00-05:00 HOUR	49.5 <sup>1)</sup>	47.5 <sup>2)</sup>	48.0 <sup>1)</sup>	47.1 <sup>2)</sup>	0.9
	05:00-06:00 HOUR	49.1 <sup>1)</sup>	47.5 <sup>2)</sup>	47.6 <sup>1)</sup>	47.1 <sup>2)</sup>	0.5
	06:00-07:00 HOUR	49.5 <sup>1)</sup>	47.5 <sup>2)</sup>	48.0 <sup>1)</sup>	47.1 <sup>2)</sup>	0.9
	07:00-08:00 HOUR	50.5 <sup>1)</sup>	47.5 <sup>2)</sup>	50.5 <sup>1)</sup>	47.1 <sup>2)</sup>	3.4
	08:00-09:00 HOUR	49.2 <sup>1)</sup>	47.5 <sup>2)</sup>	47.7 <sup>1)</sup>	47.1 <sup>2)</sup>	0.6
	09:00-10:00 HOUR	50.8 <sup>1)</sup>	47.5 <sup>2)</sup>	50.8 <sup>1)</sup>	47.1 <sup>2)</sup>	3.7
	10:00-11:00 HOUR	52.7 <sup>1)</sup>	47.5 <sup>2)</sup>	54.2 <sup>1)</sup>	47.1 <sup>2)</sup>	7.1
	11:00-12:00 HOUR	52.1 <sup>1)</sup>	47.5 <sup>2)</sup>	53.6 <sup>1)</sup>	47.1 <sup>2)</sup>	6.5
	12:00-13:00 HOUR	51.8 <sup>1)</sup>	47.5 <sup>2)</sup>	52.8 <sup>1)</sup>	47.1 <sup>2)</sup>	5.7
	13:00-14:00 HOUR	51.5 <sup>1)</sup>	47.5 <sup>2)</sup>	52.5 <sup>1)</sup>	47.1 <sup>2)</sup>	5.4
	14:00-15:00 HOUR	51.7 <sup>1)</sup>	47.5 <sup>2)</sup>	52.7 <sup>1)</sup>	47.1 <sup>2)</sup>	5.6

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1/9



DATE	TIME*	RESULT (dB(A))				
		POARJHC 1 : BAN KHAI NOI (UTH WGS 84 ZONE 47P 731559E 1732485N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOUNCE NOISE LEVEL
SEPTEMBER 9, 2022 T22AR978-0002	<b>DAY TIME</b> <sup>1)</sup>					
	03:00-04:00 HOUR	46.0 <sup>1)</sup>	47.5 <sup>2)</sup>	44.0 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	04:00-05:00 HOUR	48.3 <sup>1)</sup>	47.5 <sup>2)</sup>	44.3 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	05:00-06:00 HOUR	48.3 <sup>1)</sup>	47.5 <sup>2)</sup>	44.3 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	06:00-07:00 HOUR	48.5 <sup>1)</sup>	47.5 <sup>2)</sup>	44.5 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	07:00-08:00 HOUR	48.9 <sup>1)</sup>	47.5 <sup>2)</sup>	44.9 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	08:00-09:00 HOUR	47.9 <sup>1)</sup>	47.5 <sup>2)</sup>	43.9 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	09:00-10:00 HOUR	48.1 <sup>1)</sup>	47.5 <sup>2)</sup>	44.1 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	10:00-11:00 HOUR	48.6 <sup>1)</sup>	47.5 <sup>2)</sup>	44.6 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	11:00-12:00 HOUR	49.4 <sup>1)</sup>	47.5 <sup>2)</sup>	47.9 <sup>1)</sup>	47.1 <sup>2)</sup>	0.8
	12:00-13:00 HOUR	49.6 <sup>1)</sup>	47.5 <sup>2)</sup>	48.1 <sup>1)</sup>	47.1 <sup>2)</sup>	1.0
	13:00-14:00 HOUR	49.8 <sup>1)</sup>	47.5 <sup>2)</sup>	48.3 <sup>1)</sup>	47.1 <sup>2)</sup>	1.2
	14:00-15:00 HOUR	50.4 <sup>1)</sup>	47.5 <sup>2)</sup>	50.4 <sup>1)</sup>	47.1 <sup>2)</sup>	3.3
	15:00-16:00 HOUR	50.7 <sup>1)</sup>	47.5 <sup>2)</sup>	50.7 <sup>1)</sup>	47.1 <sup>2)</sup>	3.6
	16:00-17:00 HOUR	48.3 <sup>1)</sup>	47.5 <sup>2)</sup>	44.3 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	17:00-18:00 HOUR	50.6 <sup>1)</sup>	47.5 <sup>2)</sup>	50.6 <sup>1)</sup>	47.1 <sup>2)</sup>	3.5
	18:00-19:00 HOUR	51.5 <sup>1)</sup>	47.5 <sup>2)</sup>	52.5 <sup>1)</sup>	47.1 <sup>2)</sup>	5.4
	19:00-20:00 HOUR	51.4 <sup>1)</sup>	47.5 <sup>2)</sup>	52.4 <sup>1)</sup>	47.1 <sup>2)</sup>	5.3
	20:00-21:00 HOUR	51.7 <sup>1)</sup>	47.5 <sup>2)</sup>	52.7 <sup>1)</sup>	47.1 <sup>2)</sup>	5.6
	21:00-22:00 HOUR	51.7 <sup>1)</sup>	47.5 <sup>2)</sup>	52.7 <sup>1)</sup>	47.1 <sup>2)</sup>	5.6
	22:00-23:00 HOUR	51.7 <sup>1)</sup>	47.5 <sup>2)</sup>	52.7 <sup>1)</sup>	47.1 <sup>2)</sup>	5.6
	23:00-24:00 HOUR	51.9 <sup>1)</sup>	47.5 <sup>2)</sup>	52.9 <sup>1)</sup>	47.1 <sup>2)</sup>	5.8
	00:00-01:00 HOUR	51.6 <sup>1)</sup>	47.5 <sup>2)</sup>	52.6 <sup>1)</sup>	47.1 <sup>2)</sup>	5.5
	01:00-02:00 HOUR	51.5 <sup>1)</sup>	47.5 <sup>2)</sup>	52.5 <sup>1)</sup>	47.1 <sup>2)</sup>	5.4
	02:00-03:00 HOUR	51.7 <sup>1)</sup>	47.5 <sup>2)</sup>	52.7 <sup>1)</sup>	47.1 <sup>2)</sup>	5.6
	03:00-04:00 HOUR	51.5 <sup>1)</sup>	47.5 <sup>2)</sup>	52.5 <sup>1)</sup>	47.1 <sup>2)</sup>	5.4
	04:00-05:00 HOUR	51.8 <sup>1)</sup>	47.5 <sup>2)</sup>	52.8 <sup>1)</sup>	47.1 <sup>2)</sup>	5.7
	05:00-06:00 HOUR	51.8 <sup>1)</sup>	47.5 <sup>2)</sup>	52.8 <sup>1)</sup>	47.1 <sup>2)</sup>	5.7
	06:00-07:00 HOUR	51.3 <sup>1)</sup>	47.5 <sup>2)</sup>	52.3 <sup>1)</sup>	47.1 <sup>2)</sup>	5.2
	07:00-08:00 HOUR	50.0 <sup>1)</sup>	47.5 <sup>2)</sup>	50.0 <sup>1)</sup>	47.1 <sup>2)</sup>	2.9
	08:00-09:00 HOUR	49.6 <sup>1)</sup>	47.5 <sup>2)</sup>	48.1 <sup>1)</sup>	47.1 <sup>2)</sup>	1.0
	09:00-10:00 HOUR	51.1 <sup>1)</sup>	47.5 <sup>2)</sup>	52.1 <sup>1)</sup>	47.1 <sup>2)</sup>	5.0
	10:00-11:00 HOUR	48.4 <sup>1)</sup>	47.5 <sup>2)</sup>	44.4 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	11:00-12:00 HOUR	49.1 <sup>1)</sup>	47.5 <sup>2)</sup>	47.6 <sup>1)</sup>	47.1 <sup>2)</sup>	0.5
	<b>DAY TIME</b> <sup>2)</sup>					
	12:00-13:00 HOUR	51.2 <sup>1)</sup>	48.2 <sup>2)</sup>	48.2 <sup>1)</sup>	46.6 <sup>2)</sup>	1.6
SEPTEMBER 10, 2022 T22AR978-0003	<b>DAY TIME</b> <sup>1)</sup>					
	07:00-08:00 HOUR	50.7 <sup>1)</sup>	48.1 <sup>2)</sup>	47.7 <sup>1)</sup>	46.7 <sup>2)</sup>	1.0
	08:00-09:00 HOUR	51.6 <sup>1)</sup>	48.1 <sup>2)</sup>	49.6 <sup>1)</sup>	46.7 <sup>2)</sup>	2.9
	09:00-10:00 HOUR	49.7 <sup>1)</sup>	48.1 <sup>2)</sup>	45.2 <sup>1)</sup>	46.7 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	10:00-11:00 HOUR	54.5 <sup>1)</sup>	48.1 <sup>2)</sup>	53.0 <sup>1)</sup>	46.7 <sup>2)</sup>	6.3
	11:00-12:00 HOUR	50.3 <sup>1)</sup>	48.1 <sup>2)</sup>	45.8 <sup>1)</sup>	46.7 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	12:00-13:00 HOUR	48.1 <sup>1)</sup>	48.1 <sup>2)</sup>	41.1 <sup>1)</sup>	46.7 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	13:00-14:00 HOUR	46.2 <sup>1)</sup>	48.1 <sup>2)</sup>	39.2 <sup>1)</sup>	46.7 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>

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3/9

2022-U072062

DATE	TIME*	RESULT (dB(A))				
		POARJHC 1 : BAN KHAI NOI (UTH WGS 84 ZONE 47P 731559E 1732485N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOUNCE NOISE LEVEL
SEPTEMBER 8, 2022 T22AR978-0001	NIGHT TIME <sup>2)</sup>					
	23:25-23:30 HOUR	51.4 <sup>1)</sup>	47.5 <sup>2)</sup>	52.4 <sup>1)</sup>	47.1 <sup>2)</sup>	5.3
	23:30-23:35 HOUR	51.0 <sup>1)</sup>	47.5 <sup>2)</sup>	52.0 <sup>1)</sup>	47.1 <sup>2)</sup>	4.9
	23:35-23:40 HOUR	51.3 <sup>1)</sup>	47.5 <sup>2)</sup>	52.3 <sup>1)</sup>	47.1 <sup>2)</sup>	5.2
	23:40-23:45 HOUR	51.0 <sup>1)</sup>	47.5 <sup>2)</sup>	52.0 <sup>1)</sup>	47.1 <sup>2)</sup>	4.9
	23:45-23:50 HOUR	50.9 <sup>1)</sup>	47.5 <sup>2)</sup>	50.9 <sup>1)</sup>	47.1 <sup>2)</sup>	3.8
	23:50-23:55 HOUR	50.9 <sup>1)</sup>	47.5 <sup>2)</sup>	50.9 <sup>1)</sup>	47.1 <sup>2)</sup>	3.8
	23:55-00:00 HOUR	51.1 <sup>1)</sup>	47.5 <sup>2)</sup>	52.1 <sup>1)</sup>	47.1 <sup>2)</sup>	5.0
SEPTEMBER 9, 2022 T22AR979-0001	NIGHT TIME <sup>2)</sup>					
	00:00-00:05 HOUR	50.8 <sup>1)</sup>	47.5 <sup>2)</sup>	50.8 <sup>1)</sup>	47.1 <sup>2)</sup>	3.7
	00:05-00:10 HOUR	50.6 <sup>1)</sup>	47.5 <sup>2)</sup>	50.6 <sup>1)</sup>	47.1 <sup>2)</sup>	3.5
	00:10-00:15 HOUR	50.3 <sup>1)</sup>	47.5 <sup>2)</sup>	50.3 <sup>1)</sup>	47.1 <sup>2)</sup>	3.2
	00:15-00:20 HOUR	50.4 <sup>1)</sup>	47.5 <sup>2)</sup>	50.4 <sup>1)</sup>	47.1 <sup>2)</sup>	3.3
	00:20-00:25 HOUR	50.4 <sup>1)</sup>	47.5 <sup>2)</sup>	50.4 <sup>1)</sup>	47.1 <sup>2)</sup>	3.3
	00:25-00:30 HOUR	50.6 <sup>1)</sup>	47.5 <sup>2)</sup>	50.6 <sup>1)</sup>	47.1 <sup>2)</sup>	3.5
	00:30-00:35 HOUR	50.9 <sup>1)</sup>	47.5 <sup>2)</sup>	50.9 <sup>1)</sup>	47.1 <sup>2)</sup>	3.8
	00:35-00:40 HOUR	50.6 <sup>1)</sup>	47.5 <sup>2)</sup>	50.6 <sup>1)</sup>	47.1 <sup>2)</sup>	3.5
	00:40-00:45 HOUR	50.1 <sup>1)</sup>	47.5 <sup>2)</sup>	50.1 <sup>1)</sup>	47.1 <sup>2)</sup>	3.0
	00:45-00:50 HOUR	49.7 <sup>1)</sup>	47.5 <sup>2)</sup>	48.2 <sup>1)</sup>	47.1 <sup>2)</sup>	1.1
	00:50-00:55 HOUR	49.7 <sup>1)</sup>	47.5 <sup>2)</sup>	48.2 <sup>1)</sup>	47.1 <sup>2)</sup>	1.1
	00:55-01:00 HOUR	49.4 <sup>1)</sup>	47.5 <sup>2)</sup>	47.9 <sup>1)</sup>	47.1 <sup>2)</sup>	0.8
	01:00-01:05 HOUR	49.2 <sup>1)</sup>	47.5 <sup>2)</sup>	47.7 <sup>1)</sup>	47.1 <sup>2)</sup>	0.6
	01:05-01:10 HOUR	48.7 <sup>1)</sup>	47.5 <sup>2)</sup>	44.7 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	01:10-01:15 HOUR	49.7 <sup>1)</sup>	47.5 <sup>2)</sup>	48.2 <sup>1)</sup>	47.1 <sup>2)</sup>	1.1
	01:15-01:20 HOUR	48.8 <sup>1)</sup>	47.5 <sup>2)</sup>	44.8 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	01:20-01:25 HOUR	49.2 <sup>1)</sup>	47.5 <sup>2)</sup>	47.7 <sup>1)</sup>	47.1 <sup>2)</sup>	0.6
	01:25-01:30 HOUR	48.8 <sup>1)</sup>	47.5 <sup>2)</sup>	44.8 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>
	01:30-01:35 HOUR	49.8 <sup>1)</sup>	47.5 <sup>2)</sup>	48.3 <sup>1)</sup>	47.1 <sup>2)</sup>	1.2
	01:35-01:40 HOUR	49.1 <sup>1)</sup>	47.5 <sup>2)</sup>	47.6 <sup>1)</sup>	47.1 <sup>2)</sup>	0.5
	01:40-01:45 HOUR	49.3 <sup>1)</sup>	47.5 <sup>2)</sup>	47.8 <sup>1)</sup>	47.1 <sup>2)</sup>	0.7
	01:45-01:50 HOUR	49.0 <sup>1)</sup>	47.5 <sup>2)</sup>	47.5 <sup>1)</sup>	47.1 <sup>2)</sup>	0.4
	01:50-01:55 HOUR	49.1 <sup>1)</sup>	47.5 <sup>2)</sup>	47.6 <sup>1)</sup>	47.1 <sup>2)</sup>	0.5
01:55-02:00 HOUR	49.0 <sup>1)</sup>	47.5 <sup>2)</sup>	47.5 <sup>1)</sup>	47.1 <sup>2)</sup>	0.4	
02:00-02:05 HOUR	48.7 <sup>1)</sup>	47.5 <sup>2)</sup>	44.7 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	
02:05-02:10 HOUR	48.8 <sup>1)</sup>	47.5 <sup>2)</sup>	44.8 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	
02:10-02:15 HOUR	48.7 <sup>1)</sup>	47.5 <sup>2)</sup>	44.7 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	
02:15-02:20 HOUR	48.2 <sup>1)</sup>	47.5 <sup>2)</sup>	44.2 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	
02:20-02:25 HOUR	48.1 <sup>1)</sup>	47.5 <sup>2)</sup>	44.1 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	
02:25-02:30 HOUR	48.0 <sup>1)</sup>	47.5 <sup>2)</sup>	44.0 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	
02:30-02:35 HOUR	47.8 <sup>1)</sup>	47.5 <sup>2)</sup>	43.8 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	
02:35-02:40 HOUR	47.8 <sup>1)</sup>	47.5 <sup>2)</sup>	43.8 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	
02:40-02:45 HOUR	47.5 <sup>1)</sup>	47.5 <sup>2)</sup>	43.5 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	
02:45-02:50 HOUR	47.9 <sup>1)</sup>	47.5 <sup>2)</sup>	43.9 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	
02:50-02:55 HOUR	47.6 <sup>1)</sup>	47.5 <sup>2)</sup>	43.6 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	
02:55-03:00 HOUR	47.4 <sup>1)</sup>	47.5 <sup>2)</sup>	43.4 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	
03:00-03:05 HOUR	47.5 <sup>1)</sup>	47.5 <sup>2)</sup>	43.5 <sup>1)</sup>	47.1 <sup>2)</sup>	NOT SIGNIFICANT <sup>3)</sup>	



DATE	TIME*	RESULT (dB(A))				
		POARJHC 1 : BAN KHAO NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNNOYANCE NOISE LEVEL
SEPTEMBER 10, 2022 T22AR978-0002	<b>NIGHT TIME</b>					
	00:00-01:00 HOUR	50.8 <sup>u</sup>	49.7 <sup>***</sup>	46.8 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	01:00-01:05 HOUR	51.2 <sup>u</sup>	49.7 <sup>***</sup>	49.7 <sup>u</sup>	48.4 <sup>***</sup>	1.3
	01:05-01:10 HOUR	51.0 <sup>u</sup>	49.7 <sup>***</sup>	47.0 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	01:10-01:15 HOUR	51.1 <sup>u</sup>	49.7 <sup>***</sup>	47.1 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	01:15-01:20 HOUR	51.0 <sup>u</sup>	49.7 <sup>***</sup>	47.0 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	01:20-01:25 HOUR	50.9 <sup>u</sup>	49.7 <sup>***</sup>	46.9 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	01:25-01:30 HOUR	50.3 <sup>u</sup>	49.7 <sup>***</sup>	46.3 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	01:30-01:35 HOUR	49.8 <sup>u</sup>	49.7 <sup>***</sup>	45.8 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	01:35-01:40 HOUR	50.2 <sup>u</sup>	49.7 <sup>***</sup>	46.2 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	01:40-01:45 HOUR	49.5 <sup>u</sup>	49.7 <sup>***</sup>	45.5 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	01:45-01:50 HOUR	49.4 <sup>u</sup>	49.7 <sup>***</sup>	45.4 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	01:50-01:55 HOUR	49.3 <sup>u</sup>	49.7 <sup>***</sup>	45.3 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	01:55-02:00 HOUR	49.2 <sup>u</sup>	49.7 <sup>***</sup>	45.2 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	02:00-02:05 HOUR	49.7 <sup>u</sup>	49.7 <sup>***</sup>	45.7 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	02:05-02:10 HOUR	50.3 <sup>u</sup>	49.7 <sup>***</sup>	46.3 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	02:10-02:15 HOUR	50.5 <sup>u</sup>	49.7 <sup>***</sup>	46.5 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	02:15-02:20 HOUR	50.6 <sup>u</sup>	49.7 <sup>***</sup>	46.6 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	02:20-02:25 HOUR	51.3 <sup>u</sup>	49.7 <sup>***</sup>	49.8 <sup>u</sup>	48.4 <sup>***</sup>	1.4
	02:25-02:30 HOUR	50.4 <sup>u</sup>	49.7 <sup>***</sup>	46.4 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	02:30-02:35 HOUR	50.9 <sup>u</sup>	49.7 <sup>***</sup>	46.9 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	02:35-02:40 HOUR	51.0 <sup>u</sup>	49.7 <sup>***</sup>	47.0 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	02:40-02:45 HOUR	50.8 <sup>u</sup>	49.7 <sup>***</sup>	46.8 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	02:45-02:50 HOUR	51.5 <sup>u</sup>	49.7 <sup>***</sup>	50.0 <sup>u</sup>	48.4 <sup>***</sup>	1.6
	02:50-02:55 HOUR	52.3 <sup>u</sup>	49.7 <sup>***</sup>	52.3 <sup>u</sup>	48.4 <sup>***</sup>	3.9
	02:55-03:00 HOUR	52.7 <sup>u</sup>	49.7 <sup>***</sup>	52.7 <sup>u</sup>	48.4 <sup>***</sup>	4.3
	03:00-03:05 HOUR	53.5 <sup>u</sup>	49.7 <sup>***</sup>	54.5 <sup>u</sup>	48.4 <sup>***</sup>	6.1
	03:05-03:10 HOUR	52.2 <sup>u</sup>	49.7 <sup>***</sup>	52.2 <sup>u</sup>	48.4 <sup>***</sup>	3.8
	03:10-03:15 HOUR	52.4 <sup>u</sup>	49.7 <sup>***</sup>	52.4 <sup>u</sup>	48.4 <sup>***</sup>	4.0
	03:15-03:20 HOUR	53.2 <sup>u</sup>	49.7 <sup>***</sup>	54.2 <sup>u</sup>	48.4 <sup>***</sup>	5.8
	03:20-03:25 HOUR	53.2 <sup>u</sup>	49.7 <sup>***</sup>	54.2 <sup>u</sup>	48.4 <sup>***</sup>	5.8
	03:25-03:30 HOUR	53.4 <sup>u</sup>	49.7 <sup>***</sup>	54.4 <sup>u</sup>	48.4 <sup>***</sup>	6.0
	03:30-03:35 HOUR	54.0 <sup>u</sup>	49.7 <sup>***</sup>	55.0 <sup>u</sup>	48.4 <sup>***</sup>	6.6
	03:35-03:40 HOUR	53.9 <sup>u</sup>	49.7 <sup>***</sup>	54.9 <sup>u</sup>	48.4 <sup>***</sup>	6.5
	03:40-03:45 HOUR	52.9 <sup>u</sup>	49.7 <sup>***</sup>	52.9 <sup>u</sup>	48.4 <sup>***</sup>	4.5
	03:45-03:50 HOUR	53.6 <sup>u</sup>	49.7 <sup>***</sup>	54.6 <sup>u</sup>	48.4 <sup>***</sup>	7.2
	03:50-03:55 HOUR	54.2 <sup>u</sup>	49.7 <sup>***</sup>	55.2 <sup>u</sup>	48.4 <sup>***</sup>	6.3
	03:55-04:00 HOUR	53.9 <sup>u</sup>	49.7 <sup>***</sup>	54.9 <sup>u</sup>	48.4 <sup>***</sup>	6.5
	04:00-04:05 HOUR	53.5 <sup>u</sup>	49.7 <sup>***</sup>	54.5 <sup>u</sup>	48.4 <sup>***</sup>	6.1
	04:05-04:10 HOUR	53.2 <sup>u</sup>	49.7 <sup>***</sup>	54.2 <sup>u</sup>	48.4 <sup>***</sup>	5.8
	04:10-04:15 HOUR	53.1 <sup>u</sup>	49.7 <sup>***</sup>	53.1 <sup>u</sup>	48.4 <sup>***</sup>	4.7
	04:15-04:20 HOUR	52.8 <sup>u</sup>	49.7 <sup>***</sup>	52.8 <sup>u</sup>	48.4 <sup>***</sup>	4.4
	04:20-04:25 HOUR	52.7 <sup>u</sup>	49.7 <sup>***</sup>	52.7 <sup>u</sup>	48.4 <sup>***</sup>	4.3
	04:25-04:30 HOUR	53.4 <sup>u</sup>	49.7 <sup>***</sup>	54.4 <sup>u</sup>	48.4 <sup>***</sup>	6.0
	04:30-04:35 HOUR	53.0 <sup>u</sup>	49.7 <sup>***</sup>	53.0 <sup>u</sup>	48.4 <sup>***</sup>	4.6
	04:35-04:40 HOUR	52.5 <sup>u</sup>	49.7 <sup>***</sup>	52.5 <sup>u</sup>	48.4 <sup>***</sup>	4.1

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5/9

2022-U072062

DATE	TIME*	RESULT (dB(A))				
		POARJHC 1 : BAN KHAO NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNNOYANCE NOISE LEVEL
SEPTEMBER 10, 2022 T22AR978-0002	<b>NIGHT TIME</b>					
	04:40-04:45 HOUR	52.8 <sup>u</sup>	49.7 <sup>***</sup>	52.8 <sup>u</sup>	48.4 <sup>***</sup>	4.4
	04:45-04:50 HOUR	53.0 <sup>u</sup>	49.7 <sup>***</sup>	53.0 <sup>u</sup>	48.4 <sup>***</sup>	4.6
	04:50-04:55 HOUR	53.4 <sup>u</sup>	49.7 <sup>***</sup>	54.4 <sup>u</sup>	48.4 <sup>***</sup>	6.0
	04:55-05:00 HOUR	53.6 <sup>u</sup>	49.7 <sup>***</sup>	54.6 <sup>u</sup>	48.4 <sup>***</sup>	6.2
	05:00-05:05 HOUR	53.5 <sup>u</sup>	49.7 <sup>***</sup>	54.5 <sup>u</sup>	48.4 <sup>***</sup>	6.1
	05:05-05:10 HOUR	53.6 <sup>u</sup>	49.7 <sup>***</sup>	54.6 <sup>u</sup>	48.4 <sup>***</sup>	6.2
	05:10-05:15 HOUR	53.5 <sup>u</sup>	49.7 <sup>***</sup>	54.5 <sup>u</sup>	48.4 <sup>***</sup>	6.1
	05:15-05:20 HOUR	52.9 <sup>u</sup>	49.7 <sup>***</sup>	52.9 <sup>u</sup>	48.4 <sup>***</sup>	4.5
	05:20-05:25 HOUR	53.2 <sup>u</sup>	49.7 <sup>***</sup>	54.2 <sup>u</sup>	48.4 <sup>***</sup>	5.8
	05:25-05:30 HOUR	53.8 <sup>u</sup>	49.7 <sup>***</sup>	54.8 <sup>u</sup>	48.4 <sup>***</sup>	6.4
	05:30-05:35 HOUR	53.5 <sup>u</sup>	49.7 <sup>***</sup>	54.5 <sup>u</sup>	48.4 <sup>***</sup>	6.1
	05:35-05:40 HOUR	53.0 <sup>u</sup>	49.7 <sup>***</sup>	53.0 <sup>u</sup>	48.4 <sup>***</sup>	4.6
	05:40-05:45 HOUR	51.8 <sup>u</sup>	49.7 <sup>***</sup>	50.3 <sup>u</sup>	48.4 <sup>***</sup>	1.9
	05:45-05:50 HOUR	50.8 <sup>u</sup>	49.7 <sup>***</sup>	46.8 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	05:50-05:55 HOUR	50.3 <sup>u</sup>	49.7 <sup>***</sup>	46.3 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	05:55-06:00 HOUR	49.8 <sup>u</sup>	49.7 <sup>***</sup>	45.8 <sup>u</sup>	48.4 <sup>***</sup>	NOT SIGNIFICANT <sup>u</sup>
	<b>DAY TIME</b>					
	06:00-07:00 HOUR	52.1 <sup>u</sup>	48.1 <sup>**</sup>	50.1 <sup>u</sup>	46.7 <sup>**</sup>	3.4
SEPTEMBER 10, 2022 T22AR978-0003	<b>DAY TIME</b>					
	07:00-08:00 HOUR	51.2 <sup>u</sup>	49.8 <sup>**</sup>	44.2 <sup>u</sup>	47.4 <sup>**</sup>	NOT SIGNIFICANT <sup>u</sup>
	08:00-09:00 HOUR	52.5 <sup>u</sup>	49.8 <sup>**</sup>	49.5 <sup>u</sup>	47.4 <sup>**</sup>	2.1
	09:00-10:00 HOUR	49.9 <sup>u</sup>	49.8 <sup>**</sup>	42.9 <sup>u</sup>	47.4 <sup>**</sup>	NOT SIGNIFICANT <sup>u</sup>
	10:00-11:00 HOUR	51.2 <sup>u</sup>	49.8 <sup>**</sup>	44.2 <sup>u</sup>	47.4 <sup>**</sup>	NOT SIGNIFICANT <sup>u</sup>
	11:00-12:00 HOUR	49.6 <sup>u</sup>	49.8 <sup>**</sup>	42.6 <sup>u</sup>	47.4 <sup>**</sup>	NOT SIGNIFICANT <sup>u</sup>
	12:00-13:00 HOUR	50.4 <sup>u</sup>	49.8 <sup>**</sup>	43.4 <sup>u</sup>	47.4 <sup>**</sup>	NOT SIGNIFICANT <sup>u</sup>
	13:00-14:00 HOUR	50.5 <sup>u</sup>	49.8 <sup>**</sup>	43.5 <sup>u</sup>	47.4 <sup>**</sup>	NOT SIGNIFICANT <sup>u</sup>
	14:00-15:00 HOUR	49.1 <sup>u</sup>	49.8 <sup>**</sup>	42.1 <sup>u</sup>	47.4 <sup>**</sup>	NOT SIGNIFICANT <sup>u</sup>
	15:00-16:00 HOUR	50.4 <sup>u</sup>	49.8 <sup>**</sup>	43.4 <sup>u</sup>	47.4 <sup>**</sup>	NOT SIGNIFICANT <sup>u</sup>
	16:00-17:00 HOUR	54.7 <sup>u</sup>	49.8 <sup>**</sup>	53.2 <sup>u</sup>	47.4 <sup>**</sup>	5.8
	17:00-18:00 HOUR	56.3 <sup>u</sup>	49.8 <sup>**</sup>	55.3 <sup>u</sup>	47.4 <sup>**</sup>	7.9
	18:00-19:00 HOUR	56.3 <sup>u</sup>	49.8 <sup>**</sup>	55.3 <sup>u</sup>	47.4 <sup>**</sup>	7.9
	19:00-20:00 HOUR	51.5 <sup>u</sup>	49.8 <sup>**</sup>	47.0 <sup>u</sup>	47.4 <sup>**</sup>	NOT SIGNIFICANT <sup>u</sup>
	20:00-21:00 HOUR	52.8 <sup>u</sup>	49.8 <sup>**</sup>	49.8 <sup>u</sup>	47.4 <sup>**</sup>	2.4
	21:00-22:00 HOUR	56.4 <sup>u</sup>	49.8 <sup>**</sup>	55.4 <sup>u</sup>	47.4 <sup>**</sup>	8.0
	<b>NIGHT TIME</b>					
	22:00-22:05 HOUR	53.4 <sup>u</sup>	49.6 <sup>***</sup>	54.4 <sup>u</sup>	47.4 <sup>***</sup>	7.0
	22:05-22:10 HOUR	54.2 <sup>u</sup>	49.6 <sup>***</sup>	55.2 <sup>u</sup>	47.4 <sup>***</sup>	8.3
	22:10-22:15 HOUR	54.3 <sup>u</sup>	49.6 <sup>***</sup>	55.3 <sup>u</sup>	47.4 <sup>***</sup>	8.4
	22:15-22:20 HOUR	54.3 <sup>u</sup>	49.6 <sup>***</sup>	55.3 <sup>u</sup>	47.4 <sup>***</sup>	8.4
	22:20-22:25 HOUR	54.2 <sup>u</sup>	49.6 <sup>***</sup>	55.2 <sup>u</sup>	47.4 <sup>***</sup>	8.3
	22:25-22:30 HOUR	54.3 <sup>u</sup>	49.6 <sup>***</sup>	55.3 <sup>u</sup>	47.4 <sup>***</sup>	8.4
	22:30-22:35 HOUR	53.4 <sup>u</sup>	49.6 <sup>***</sup>	54.4 <sup>u</sup>	47.4 <sup>***</sup>	7.0
	22:35-22:40 HOUR	53.2 <sup>u</sup>	49.6 <sup>***</sup>	54.2 <sup>u</sup>	47.4 <sup>***</sup>	6.8
	22:40-22:45 HOUR	54.1 <sup>u</sup>	49.6 <sup>***</sup>	55.6 <sup>u</sup>	47.4 <sup>***</sup>	8.2
	22:45-22:50 HOUR	54.1 <sup>u</sup>	49.6 <sup>***</sup>	55.6 <sup>u</sup>	47.4 <sup>***</sup>	8.2

NO NOISES CAPTURED  
BY THE GROUP (THAILAND) COLLECT

• DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL.  
• REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.

6/9

2022-U072062

DATE	TIME*	RESULT (dB(A))				
		POARJHC 1 : BAN KHAO NOI (UTM WGS 84 ZONE 47P 731559E 1732485N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNNOYANCE NOISE LEVEL
SEPTEMBER 10, 2022 T22AR978-0003	NIGHT TIME <sup>3/</sup>					
	22:50-22:55 HOUR	54.0 <sup>u</sup>	49.6 ***	55.0 <sup>u</sup>	47.4 ***	7.6
	22:55-23:00 HOUR	53.5 <sup>u</sup>	49.6 ***	54.5 <sup>u</sup>	47.4 ***	7.1
	23:00-23:05 HOUR	53.5 <sup>u</sup>	49.6 ***	54.5 <sup>u</sup>	47.4 ***	7.1
	23:05-23:10 HOUR	52.7 <sup>u</sup>	49.6 ***	52.7 <sup>u</sup>	47.4 ***	5.3
	23:10-23:15 HOUR	53.4 <sup>u</sup>	49.6 ***	54.4 <sup>u</sup>	47.4 ***	7.0
	23:15-23:20 HOUR	51.0 <sup>u</sup>	49.6 ***	47.0 <sup>u</sup>	47.4 ***	NOT SIGNIFICANT <sup>u</sup>
	23:20-23:25 HOUR	50.2 <sup>u</sup>	49.6 ***	46.2 <sup>u</sup>	47.4 ***	NOT SIGNIFICANT <sup>u</sup>
	23:25-23:30 HOUR	50.8 <sup>u</sup>	49.6 ***	46.8 <sup>u</sup>	47.4 ***	NOT SIGNIFICANT <sup>u</sup>
	23:30-23:35 HOUR	50.9 <sup>u</sup>	49.6 ***	46.9 <sup>u</sup>	47.4 ***	NOT SIGNIFICANT <sup>u</sup>
	23:35-23:40 HOUR	49.8 <sup>u</sup>	49.6 ***	44.9 <sup>u</sup>	47.4 ***	NOT SIGNIFICANT <sup>u</sup>
	23:40-23:45 HOUR	49.6 <sup>u</sup>	49.6 ***	45.6 <sup>u</sup>	47.4 ***	NOT SIGNIFICANT <sup>u</sup>
	23:45-23:50 HOUR	52.6 <sup>u</sup>	49.6 ***	52.6 <sup>u</sup>	47.4 ***	5.2
	23:50-23:55 HOUR	54.4 <sup>u</sup>	49.6 ***	55.9 <sup>u</sup>	47.4 ***	8.5
	23:55-00:00 HOUR	54.8 <sup>u</sup>	49.6 ***	56.3 <sup>u</sup>	47.4 ***	8.9
	SEPTEMBER 11, 2022 T22AR978-0003	NIGHT TIME <sup>3/</sup>				
00:00-00:05 HOUR		54.9 <sup>u</sup>	49.6 ***	56.4 <sup>u</sup>	47.4 ***	9.0
00:05-00:10 HOUR		55.4 <sup>u</sup>	49.6 ***	56.9 <sup>u</sup>	47.4 ***	9.5
00:10-00:15 HOUR		55.4 <sup>u</sup>	49.6 ***	56.9 <sup>u</sup>	47.4 ***	9.5
00:15-00:20 HOUR		53.2 <sup>u</sup>	49.6 ***	54.2 <sup>u</sup>	47.4 ***	6.8
00:20-00:25 HOUR		55.5 <sup>u</sup>	49.6 ***	57.0 <sup>u</sup>	47.4 ***	9.6
00:25-00:30 HOUR		55.4 <sup>u</sup>	49.6 ***	56.9 <sup>u</sup>	47.4 ***	9.6
00:30-00:35 HOUR		55.0 <sup>u</sup>	49.6 ***	56.5 <sup>u</sup>	47.4 ***	9.1
00:35-00:40 HOUR		50.8 <sup>u</sup>	49.6 ***	46.8 <sup>u</sup>	47.4 ***	NOT SIGNIFICANT <sup>u</sup>
00:40-00:45 HOUR		53.5 <sup>u</sup>	49.6 ***	54.5 <sup>u</sup>	47.4 ***	7.1
00:45-00:50 HOUR		53.6 <sup>u</sup>	49.6 ***	54.6 <sup>u</sup>	47.4 ***	7.2
00:50-00:55 HOUR		53.6 <sup>u</sup>	49.6 ***	54.6 <sup>u</sup>	47.4 ***	7.2
00:55-01:00 HOUR		52.4 <sup>u</sup>	49.6 ***	52.4 <sup>u</sup>	47.4 ***	5.0
01:00-01:05 HOUR		53.3 <sup>u</sup>	49.6 ***	54.3 <sup>u</sup>	47.4 ***	6.9
01:05-01:10 HOUR		53.0 <sup>u</sup>	49.6 ***	53.0 <sup>u</sup>	47.4 ***	5.6
01:10-01:15 HOUR		52.8 <sup>u</sup>	49.6 ***	52.8 <sup>u</sup>	47.4 ***	5.4
01:15-01:20 HOUR		52.6 <sup>u</sup>	49.6 ***	52.6 <sup>u</sup>	47.4 ***	5.2
01:20-01:25 HOUR		52.4 <sup>u</sup>	49.6 ***	52.4 <sup>u</sup>	47.4 ***	5.0
01:25-01:30 HOUR		54.5 <sup>u</sup>	49.6 ***	56.0 <sup>u</sup>	47.4 ***	8.6
01:30-01:35 HOUR		53.6 <sup>u</sup>	49.6 ***	54.6 <sup>u</sup>	47.4 ***	7.2
01:35-01:40 HOUR		53.4 <sup>u</sup>	49.6 ***	54.4 <sup>u</sup>	47.4 ***	7.0
01:40-01:45 HOUR		53.1 <sup>u</sup>	49.6 ***	54.1 <sup>u</sup>	47.4 ***	6.7
01:45-01:50 HOUR		49.5 <sup>u</sup>	49.6 ***	45.5 <sup>u</sup>	47.4 ***	NOT SIGNIFICANT <sup>u</sup>
01:50-01:55 HOUR		49.8 <sup>u</sup>	49.6 ***	45.8 <sup>u</sup>	47.4 ***	NOT SIGNIFICANT <sup>u</sup>
01:55-02:00 HOUR		52.4 <sup>u</sup>	49.6 ***	50.5 <sup>u</sup>	47.4 ***	3.1
02:00-02:05 HOUR		53.4 <sup>u</sup>	49.6 ***	54.4 <sup>u</sup>	47.4 ***	7.0
02:05-02:10 HOUR		53.1 <sup>u</sup>	49.6 ***	54.1 <sup>u</sup>	47.4 ***	6.7
02:10-02:15 HOUR		51.2 <sup>u</sup>	49.6 ***	49.7 <sup>u</sup>	47.4 ***	2.3
02:15-02:20 HOUR		51.2 <sup>u</sup>	49.6 ***	49.7 <sup>u</sup>	47.4 ***	2.3
02:20-02:25 HOUR		52.2 <sup>u</sup>	49.6 ***	52.2 <sup>u</sup>	47.4 ***	4.8
02:25-02:30 HOUR		54.2 <sup>u</sup>	49.6 ***	55.0 <sup>u</sup>	47.4 ***	7.6



**REMARK :**

- 1/ CASE 1 CALCULATION (DURING 06:00 TO 22:00 HOUR) : SPECIFIC NOISE LEVEL CONTINUOUSLY OCCUR AT LEAST 1 HOUR, MEASURING AS L<sub>avg</sub> 1 hour.
- 2/ CASE 4 CALCULATION (DURING 22:00 TO 06:00 HOUR) : SPECIFIC NOISE LEVEL OCCUR IN RESTFUL AREA OR NIGHT TIME, MEASURING AS L<sub>avg</sub> 5 minutes.
- 3/ NOT SIGNIFICANT MEANS ANNOYANCE NOISE LEVEL IS LOWER THAN 0.

**\*\* PERCENTILE LEVEL 90 (L<sub>90</sub>) IS MIDDLE VALUE OF 3 TIMES MEASURING.**  
(15 MINUTES MEASURING DURING 06:00 TO 22:00 HOUR)  
AND RESIDUAL NOISE LEVEL (L<sub>avg</sub> 5 minutes) IS CHOSE AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.

**\*\*\* PERCENTILE LEVEL 90 (L<sub>90</sub>) IS MIDDLE VALUE OF 3 TIMES MEASURING.**  
(15 MINUTES MEASURING DURING 22:00 TO 06:00 HOUR)  
AND RESIDUAL NOISE LEVEL (L<sub>avg</sub> 5 minutes) IS CHOSE AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.

**CUSTOMER NAME :** ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS :** 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHN ROAD CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION :** TEL : 0 2937 1124-9 e-mail : anucha@ecoorient.net  
**MEASURING PLACE :** POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)  
**MEASURING TYPE :** AMBIENT (ANNOYANCE NOISE)  
**RECEIVED DATE :** SEPTEMBER 4-7, 2022  
**MEASURING DATE :** SEPTEMBER 4-7, 2022  
**ANALYTICAL DATE :** SEPTEMBER 4-7, 2022  
**MEASURING TIME :** \*  
**REPORT NO. :** 2022-U072065  
**MEASURING EQUIPMENT :** INTEGRATED SOUND LEVEL METER AND CALCULATION  
**WORK NO. :** 2022-006609  
**ANALYSIS NO. :** T22AR978-0007 - T22AR978-0009

DATE	TIME*	RESULT (dB(A))				
		POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 4, 2022 T22AR978-0007	<b>DAY TIME</b> <sup>1/2</sup>					
	07:00-08:00 HOUR	46.4 <sup>1/2</sup>	44.6 <sup>**</sup>	41.9 <sup>1/2</sup>	41.1 <sup>**</sup>	0.8
	08:00-09:00 HOUR	45.7 <sup>1/2</sup>	44.6 <sup>**</sup>	38.7 <sup>1/2</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	09:00-10:00 HOUR	46.4 <sup>1/2</sup>	44.6 <sup>**</sup>	41.9 <sup>1/2</sup>	41.1 <sup>**</sup>	0.8
	10:00-11:00 HOUR	47.7 <sup>1/2</sup>	44.6 <sup>**</sup>	44.7 <sup>1/2</sup>	41.1 <sup>**</sup>	3.6
	11:00-12:00 HOUR	51.0 <sup>1/2</sup>	44.6 <sup>**</sup>	49.5 <sup>1/2</sup>	41.1 <sup>**</sup>	8.4
	12:00-13:00 HOUR	50.5 <sup>1/2</sup>	44.6 <sup>**</sup>	49.0 <sup>1/2</sup>	41.1 <sup>**</sup>	7.9
	13:00-14:00 HOUR	50.2 <sup>1/2</sup>	44.6 <sup>**</sup>	48.7 <sup>1/2</sup>	41.1 <sup>**</sup>	7.6
	14:00-15:00 HOUR	49.5 <sup>1/2</sup>	44.6 <sup>**</sup>	48.0 <sup>1/2</sup>	41.1 <sup>**</sup>	6.9
	15:00-16:00 HOUR	50.7 <sup>1/2</sup>	44.6 <sup>**</sup>	49.2 <sup>1/2</sup>	41.1 <sup>**</sup>	8.1
	16:00-17:00 HOUR	49.0 <sup>1/2</sup>	44.6 <sup>**</sup>	47.0 <sup>1/2</sup>	41.1 <sup>**</sup>	5.9
	17:00-18:00 HOUR	45.1 <sup>1/2</sup>	44.6 <sup>**</sup>	38.1 <sup>1/2</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	18:00-19:00 HOUR	45.0 <sup>1/2</sup>	44.6 <sup>**</sup>	38.0 <sup>1/2</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	19:00-20:00 HOUR	43.6 <sup>1/2</sup>	44.6 <sup>**</sup>	36.6 <sup>1/2</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	20:00-21:00 HOUR	44.4 <sup>1/2</sup>	44.6 <sup>**</sup>	37.4 <sup>1/2</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	21:00-22:00 HOUR	47.5 <sup>1/2</sup>	44.6 <sup>**</sup>	44.5 <sup>1/2</sup>	41.1 <sup>**</sup>	3.4
	<b>NIGHT TIME</b> <sup>1/2</sup>					
	22:00-22:05 HOUR	47.0 <sup>1/2</sup>	42.5 <sup>***</sup>	48.5 <sup>1/2</sup>	41.6 <sup>***</sup>	6.9
	22:05-22:10 HOUR	48.6 <sup>1/2</sup>	42.5 <sup>***</sup>	50.1 <sup>1/2</sup>	41.6 <sup>***</sup>	8.5
	22:10-22:15 HOUR	47.6 <sup>1/2</sup>	42.5 <sup>***</sup>	49.1 <sup>1/2</sup>	41.6 <sup>***</sup>	7.5
	22:15-22:20 HOUR	48.9 <sup>1/2</sup>	42.5 <sup>***</sup>	50.4 <sup>1/2</sup>	41.6 <sup>***</sup>	8.8
	22:20-22:25 HOUR	46.3 <sup>1/2</sup>	42.5 <sup>***</sup>	47.3 <sup>1/2</sup>	41.6 <sup>***</sup>	5.7
	22:25-22:30 HOUR	46.3 <sup>1/2</sup>	42.5 <sup>***</sup>	47.3 <sup>1/2</sup>	41.6 <sup>***</sup>	5.7
	22:30-22:35 HOUR	46.9 <sup>1/2</sup>	42.5 <sup>***</sup>	47.9 <sup>1/2</sup>	41.6 <sup>***</sup>	6.3
	22:35-22:40 HOUR	47.0 <sup>1/2</sup>	42.5 <sup>***</sup>	48.5 <sup>1/2</sup>	41.6 <sup>***</sup>	6.9
	22:40-22:45 HOUR	47.3 <sup>1/2</sup>	42.5 <sup>***</sup>	48.8 <sup>1/2</sup>	41.6 <sup>***</sup>	7.2
	22:45-22:50 HOUR	47.5 <sup>1/2</sup>	42.5 <sup>***</sup>	49.0 <sup>1/2</sup>	41.6 <sup>***</sup>	7.4
	22:50-22:55 HOUR	47.7 <sup>1/2</sup>	42.5 <sup>***</sup>	49.2 <sup>1/2</sup>	41.6 <sup>***</sup>	7.6
	22:55-23:00 HOUR	47.2 <sup>1/2</sup>	42.5 <sup>***</sup>	48.7 <sup>1/2</sup>	41.6 <sup>***</sup>	7.1
	23:00-23:05 HOUR	45.7 <sup>1/2</sup>	42.5 <sup>***</sup>	45.7 <sup>1/2</sup>	41.6 <sup>***</sup>	4.1
	23:05-23:10 HOUR	43.8 <sup>1/2</sup>	42.5 <sup>***</sup>	39.8 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	23:10-23:15 HOUR	43.7 <sup>1/2</sup>	42.5 <sup>***</sup>	39.7 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	23:15-23:20 HOUR	42.8 <sup>1/2</sup>	42.5 <sup>***</sup>	38.8 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	23:20-23:25 HOUR	42.9 <sup>1/2</sup>	42.5 <sup>***</sup>	38.9 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>

*hsl*  
(MR. SILA BANONGSAIRUK)  
LABORATORY SUPERVISOR

SEPTEMBER 19, 2022

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2022-U072062

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1/9

DATE	TIME*	RESULT (dB(A))				
		POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 4, 2022 T22AR978-0007	<b>NIGHT TIME</b> <sup>1/2</sup>					
	23:25-23:30 HOUR	43.4 <sup>1/2</sup>	42.5 <sup>***</sup>	39.4 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	23:30-23:35 HOUR	42.2 <sup>1/2</sup>	42.5 <sup>***</sup>	38.2 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	23:35-23:40 HOUR	43.0 <sup>1/2</sup>	42.5 <sup>***</sup>	39.0 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	23:40-23:45 HOUR	43.2 <sup>1/2</sup>	42.5 <sup>***</sup>	39.2 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	23:45-23:50 HOUR	43.6 <sup>1/2</sup>	42.5 <sup>***</sup>	39.6 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
SEPTEMBER 5, 2022 T22AR978-0007	<b>NIGHT TIME</b> <sup>1/2</sup>					
	00:00-00:05 HOUR	42.6 <sup>1/2</sup>	42.5 <sup>***</sup>	38.6 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	00:05-00:10 HOUR	46.2 <sup>1/2</sup>	42.5 <sup>***</sup>	47.2 <sup>1/2</sup>	41.6 <sup>***</sup>	5.6
	00:10-00:15 HOUR	41.4 <sup>1/2</sup>	42.5 <sup>***</sup>	37.4 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	00:15-00:20 HOUR	43.4 <sup>1/2</sup>	42.5 <sup>***</sup>	39.4 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	00:20-00:25 HOUR	43.7 <sup>1/2</sup>	42.5 <sup>***</sup>	39.7 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	00:25-00:30 HOUR	42.9 <sup>1/2</sup>	42.5 <sup>***</sup>	38.9 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	00:30-00:35 HOUR	43.8 <sup>1/2</sup>	42.5 <sup>***</sup>	39.8 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	00:35-00:40 HOUR	44.4 <sup>1/2</sup>	42.5 <sup>***</sup>	42.9 <sup>1/2</sup>	41.6 <sup>***</sup>	1.3
	00:40-00:45 HOUR	43.1 <sup>1/2</sup>	42.5 <sup>***</sup>	39.1 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	00:45-00:50 HOUR	43.6 <sup>1/2</sup>	42.5 <sup>***</sup>	39.6 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	00:50-00:55 HOUR	42.7 <sup>1/2</sup>	42.5 <sup>***</sup>	38.7 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	00:55-01:00 HOUR	43.4 <sup>1/2</sup>	42.5 <sup>***</sup>	39.4 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	01:00-01:05 HOUR	42.8 <sup>1/2</sup>	42.5 <sup>***</sup>	38.8 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	01:05-01:10 HOUR	44.0 <sup>1/2</sup>	42.5 <sup>***</sup>	42.5 <sup>1/2</sup>	41.6 <sup>***</sup>	0.9
	01:10-01:15 HOUR	42.7 <sup>1/2</sup>	42.5 <sup>***</sup>	38.7 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	01:15-01:20 HOUR	42.9 <sup>1/2</sup>	42.5 <sup>***</sup>	38.9 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	01:20-01:25 HOUR	42.5 <sup>1/2</sup>	42.5 <sup>***</sup>	38.5 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	01:25-01:30 HOUR	43.3 <sup>1/2</sup>	42.5 <sup>***</sup>	39.3 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	01:30-01:35 HOUR	42.6 <sup>1/2</sup>	42.5 <sup>***</sup>	38.6 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	01:35-01:40 HOUR	42.3 <sup>1/2</sup>	42.5 <sup>***</sup>	38.3 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	01:40-01:45 HOUR	42.6 <sup>1/2</sup>	42.5 <sup>***</sup>	38.6 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	01:45-01:50 HOUR	43.5 <sup>1/2</sup>	42.5 <sup>***</sup>	39.5 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	01:50-01:55 HOUR	42.4 <sup>1/2</sup>	42.5 <sup>***</sup>	38.4 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	01:55-02:00 HOUR	42.6 <sup>1/2</sup>	42.5 <sup>***</sup>	38.6 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	02:00-02:05 HOUR	42.6 <sup>1/2</sup>	42.5 <sup>***</sup>	38.6 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	02:05-02:10 HOUR	42.6 <sup>1/2</sup>	42.5 <sup>***</sup>	38.6 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	02:10-02:15 HOUR	43.8 <sup>1/2</sup>	42.5 <sup>***</sup>	39.8 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	02:15-02:20 HOUR	42.9 <sup>1/2</sup>	42.5 <sup>***</sup>	38.9 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	02:20-02:25 HOUR	43.2 <sup>1/2</sup>	42.5 <sup>***</sup>	39.2 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	02:25-02:30 HOUR	43.8 <sup>1/2</sup>	42.5 <sup>***</sup>	39.8 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	02:30-02:35 HOUR	42.8 <sup>1/2</sup>	42.5 <sup>***</sup>	38.8 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	02:35-02:40 HOUR	42.9 <sup>1/2</sup>	42.5 <sup>***</sup>	38.9 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	02:40-02:45 HOUR	43.4 <sup>1/2</sup>	42.5 <sup>***</sup>	39.4 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	02:45-02:50 HOUR	42.8 <sup>1/2</sup>	42.5 <sup>***</sup>	38.8 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	02:50-02:55 HOUR	42.2 <sup>1/2</sup>	42.5 <sup>***</sup>	38.2 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	02:55-03:00 HOUR	42.8 <sup>1/2</sup>	42.5 <sup>***</sup>	38.8 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	03:00-03:05 HOUR	42.2 <sup>1/2</sup>	42.5 <sup>***</sup>	38.2 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>

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2022-U072065

DATE	TIME*	RESULT (dB(A))				
		POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 5, 2022 T22AR978-0007	NIGHT TIME <sup>1/2</sup>					
	03:05-03:10 HOUR	42.6 <sup>1/2</sup>	42.5 <sup>***</sup>	38.6 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	03:10-03:15 HOUR	42.2 <sup>1/2</sup>	42.5 <sup>***</sup>	38.2 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	03:15-03:20 HOUR	44.0 <sup>1/2</sup>	42.5 <sup>***</sup>	42.5 <sup>1/2</sup>	41.6 <sup>***</sup>	0.9
	03:20-03:25 HOUR	42.5 <sup>1/2</sup>	42.5 <sup>***</sup>	38.5 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	03:25-03:30 HOUR	42.2 <sup>1/2</sup>	42.5 <sup>***</sup>	38.2 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	03:30-03:35 HOUR	43.3 <sup>1/2</sup>	42.5 <sup>***</sup>	39.3 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	03:35-03:40 HOUR	42.0 <sup>1/2</sup>	42.5 <sup>***</sup>	38.0 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	03:40-03:45 HOUR	41.9 <sup>1/2</sup>	42.5 <sup>***</sup>	37.9 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	03:45-03:50 HOUR	42.8 <sup>1/2</sup>	42.5 <sup>***</sup>	38.8 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	03:50-03:55 HOUR	42.8 <sup>1/2</sup>	42.5 <sup>***</sup>	38.8 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	03:55-04:00 HOUR	43.7 <sup>1/2</sup>	42.5 <sup>***</sup>	39.7 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	04:00-04:05 HOUR	46.4 <sup>1/2</sup>	42.5 <sup>***</sup>	47.4 <sup>1/2</sup>	41.6 <sup>***</sup>	5.8
	04:05-04:10 HOUR	43.5 <sup>1/2</sup>	42.5 <sup>***</sup>	39.5 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	04:10-04:15 HOUR	42.4 <sup>1/2</sup>	42.5 <sup>***</sup>	38.4 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	04:15-04:20 HOUR	42.4 <sup>1/2</sup>	42.5 <sup>***</sup>	38.4 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	04:20-04:25 HOUR	43.1 <sup>1/2</sup>	42.5 <sup>***</sup>	39.1 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	04:25-04:30 HOUR	42.7 <sup>1/2</sup>	42.5 <sup>***</sup>	38.7 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	04:30-04:35 HOUR	43.0 <sup>1/2</sup>	42.5 <sup>***</sup>	39.0 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	04:35-04:40 HOUR	44.7 <sup>1/2</sup>	42.5 <sup>***</sup>	43.2 <sup>1/2</sup>	41.6 <sup>***</sup>	1.6
	04:40-04:45 HOUR	43.6 <sup>1/2</sup>	42.5 <sup>***</sup>	39.6 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	04:45-04:50 HOUR	44.3 <sup>1/2</sup>	42.5 <sup>***</sup>	42.8 <sup>1/2</sup>	41.6 <sup>***</sup>	1.2
	04:50-04:55 HOUR	44.5 <sup>1/2</sup>	42.5 <sup>***</sup>	43.0 <sup>1/2</sup>	41.6 <sup>***</sup>	1.4
	04:55-05:00 HOUR	44.2 <sup>1/2</sup>	42.5 <sup>***</sup>	42.7 <sup>1/2</sup>	41.6 <sup>***</sup>	1.1
	05:00-05:05 HOUR	44.4 <sup>1/2</sup>	42.5 <sup>***</sup>	42.9 <sup>1/2</sup>	41.6 <sup>***</sup>	1.3
	05:05-05:10 HOUR	44.5 <sup>1/2</sup>	42.5 <sup>***</sup>	43.0 <sup>1/2</sup>	41.6 <sup>***</sup>	1.4
	05:10-05:15 HOUR	43.9 <sup>1/2</sup>	42.5 <sup>***</sup>	39.9 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	05:15-05:20 HOUR	45.0 <sup>1/2</sup>	42.5 <sup>***</sup>	45.0 <sup>1/2</sup>	41.6 <sup>***</sup>	3.4
	05:20-05:25 HOUR	44.1 <sup>1/2</sup>	42.5 <sup>***</sup>	42.6 <sup>1/2</sup>	41.6 <sup>***</sup>	1.0
	05:25-05:30 HOUR	46.8 <sup>1/2</sup>	42.5 <sup>***</sup>	47.8 <sup>1/2</sup>	41.6 <sup>***</sup>	6.2
05:30-05:35 HOUR	46.9 <sup>1/2</sup>	42.5 <sup>***</sup>	47.9 <sup>1/2</sup>	41.6 <sup>***</sup>	6.3	
05:35-05:40 HOUR	45.1 <sup>1/2</sup>	42.5 <sup>***</sup>	45.1 <sup>1/2</sup>	41.6 <sup>***</sup>	3.5	
05:40-05:45 HOUR	43.6 <sup>1/2</sup>	42.5 <sup>***</sup>	39.6 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>	
05:45-05:50 HOUR	41.8 <sup>1/2</sup>	42.5 <sup>***</sup>	37.8 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>	
05:50-05:55 HOUR	44.4 <sup>1/2</sup>	42.5 <sup>***</sup>	42.9 <sup>1/2</sup>	41.6 <sup>***</sup>	1.3	
05:55-06:00 HOUR	42.9 <sup>1/2</sup>	42.5 <sup>***</sup>	38.9 <sup>1/2</sup>	41.6 <sup>***</sup>	NOT SIGNIFICANT <sup>1/3</sup>	
	DAY TIME <sup>1/2</sup>					
	06:00-07:00 HOUR	46.5 <sup>1/2</sup>	44.6 <sup>1/2</sup>	42.0 <sup>1/2</sup>	41.1 <sup>1/2</sup>	0.9
SEPTEMBER 5, 2022 T22AR978-0008	DAY TIME <sup>1/2</sup>					
	07:00-08:00 HOUR	50.3 <sup>1/2</sup>	43.5 <sup>1/2</sup>	49.3 <sup>1/2</sup>	41.2 <sup>1/2</sup>	8.1
	08:00-09:00 HOUR	45.3 <sup>1/2</sup>	43.5 <sup>1/2</sup>	40.8 <sup>1/2</sup>	41.2 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/3</sup>
	09:00-10:00 HOUR	50.0 <sup>1/2</sup>	43.5 <sup>1/2</sup>	49.0 <sup>1/2</sup>	41.2 <sup>1/2</sup>	7.8
	10:00-11:00 HOUR	49.0 <sup>1/2</sup>	43.5 <sup>1/2</sup>	47.5 <sup>1/2</sup>	41.2 <sup>1/2</sup>	6.3
	11:00-12:00 HOUR	48.6 <sup>1/2</sup>	43.5 <sup>1/2</sup>	47.1 <sup>1/2</sup>	41.2 <sup>1/2</sup>	5.9
	12:00-13:00 HOUR	49.1 <sup>1/2</sup>	43.5 <sup>1/2</sup>	47.6 <sup>1/2</sup>	41.2 <sup>1/2</sup>	6.4
	13:00-14:00 HOUR	51.1 <sup>1/2</sup>	43.5 <sup>1/2</sup>	50.6 <sup>1/2</sup>	41.2 <sup>1/2</sup>	9.4



DATE	TIME*	RESULT (dB(A))				
		POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNNOYANCE NOISE LEVEL
SEPTEMBER 5, 2022 T22AR978-0008	<b>DAY TIME</b>					
	14:00-15:00 HOUR	50.0 <sup>V</sup>	43.5 <sup>**</sup>	49.0 <sup>V</sup>	41.2 <sup>**</sup>	7.8
	15:00-16:00 HOUR	50.0 <sup>V</sup>	43.5 <sup>**</sup>	49.0 <sup>V</sup>	41.2 <sup>**</sup>	7.8
	16:00-17:00 HOUR	49.6 <sup>V</sup>	43.5 <sup>**</sup>	48.1 <sup>V</sup>	41.2 <sup>**</sup>	6.9
	17:00-18:00 HOUR	49.6 <sup>V</sup>	43.5 <sup>**</sup>	48.1 <sup>V</sup>	41.2 <sup>**</sup>	6.9
	18:00-19:00 HOUR	45.6 <sup>V</sup>	43.5 <sup>**</sup>	41.1 <sup>V</sup>	41.2 <sup>**</sup>	NOT SIGNIFICANT <sup>3</sup>
	19:00-20:00 HOUR	45.1 <sup>V</sup>	43.5 <sup>**</sup>	40.6 <sup>V</sup>	41.2 <sup>**</sup>	NOT SIGNIFICANT <sup>3</sup>
	20:00-21:00 HOUR	44.5 <sup>V</sup>	43.5 <sup>**</sup>	37.5 <sup>V</sup>	41.2 <sup>**</sup>	NOT SIGNIFICANT <sup>3</sup>
	21:00-22:00 HOUR	43.8 <sup>V</sup>	43.5 <sup>**</sup>	36.8 <sup>V</sup>	41.2 <sup>**</sup>	NOT SIGNIFICANT <sup>3</sup>
	<b>NIGHT TIME</b>					
	22:00-22:05 HOUR	44.4 <sup>V</sup>	39.4 <sup>***</sup>	45.9 <sup>V</sup>	38.8 <sup>***</sup>	7.1
	22:05-22:10 HOUR	44.7 <sup>V</sup>	39.4 <sup>***</sup>	46.2 <sup>V</sup>	38.8 <sup>***</sup>	7.4
	22:10-22:15 HOUR	43.0 <sup>V</sup>	39.4 <sup>***</sup>	44.0 <sup>V</sup>	38.8 <sup>***</sup>	5.2
	22:15-22:20 HOUR	43.3 <sup>V</sup>	39.4 <sup>***</sup>	44.3 <sup>V</sup>	38.8 <sup>***</sup>	5.5
	22:20-22:25 HOUR	44.7 <sup>V</sup>	39.4 <sup>***</sup>	46.2 <sup>V</sup>	38.8 <sup>***</sup>	7.4
	22:25-22:30 HOUR	43.1 <sup>V</sup>	39.4 <sup>***</sup>	44.1 <sup>V</sup>	38.8 <sup>***</sup>	5.3
	22:30-22:35 HOUR	44.6 <sup>V</sup>	39.4 <sup>***</sup>	46.1 <sup>V</sup>	38.8 <sup>***</sup>	7.3
	22:35-22:40 HOUR	42.6 <sup>V</sup>	39.4 <sup>***</sup>	42.6 <sup>V</sup>	38.8 <sup>***</sup>	3.8
	22:40-22:45 HOUR	44.8 <sup>V</sup>	39.4 <sup>***</sup>	46.3 <sup>V</sup>	38.8 <sup>***</sup>	7.5
	22:45-22:50 HOUR	43.4 <sup>V</sup>	39.4 <sup>***</sup>	44.4 <sup>V</sup>	38.8 <sup>***</sup>	5.6
	22:50-22:55 HOUR	45.2 <sup>V</sup>	39.4 <sup>***</sup>	46.7 <sup>V</sup>	38.8 <sup>***</sup>	7.9
	22:55-23:00 HOUR	44.2 <sup>V</sup>	39.4 <sup>***</sup>	45.7 <sup>V</sup>	38.8 <sup>***</sup>	6.9
	23:00-23:05 HOUR	43.5 <sup>V</sup>	39.4 <sup>***</sup>	44.5 <sup>V</sup>	38.8 <sup>***</sup>	5.7
	23:05-23:10 HOUR	43.5 <sup>V</sup>	39.4 <sup>***</sup>	44.5 <sup>V</sup>	38.8 <sup>***</sup>	5.7
	23:10-23:15 HOUR	44.9 <sup>V</sup>	39.4 <sup>***</sup>	46.4 <sup>V</sup>	38.8 <sup>***</sup>	7.6
	23:15-23:20 HOUR	44.5 <sup>V</sup>	39.4 <sup>***</sup>	46.0 <sup>V</sup>	38.8 <sup>***</sup>	7.2
	23:20-23:25 HOUR	44.2 <sup>V</sup>	39.4 <sup>***</sup>	45.7 <sup>V</sup>	38.8 <sup>***</sup>	6.9
	23:25-23:30 HOUR	42.2 <sup>V</sup>	39.4 <sup>***</sup>	42.2 <sup>V</sup>	38.8 <sup>***</sup>	3.4
	23:30-23:35 HOUR	43.5 <sup>V</sup>	39.4 <sup>***</sup>	44.5 <sup>V</sup>	38.8 <sup>***</sup>	5.7
	23:35-23:40 HOUR	44.5 <sup>V</sup>	39.4 <sup>***</sup>	46.0 <sup>V</sup>	38.8 <sup>***</sup>	7.2
	23:40-23:45 HOUR	43.0 <sup>V</sup>	39.4 <sup>***</sup>	44.0 <sup>V</sup>	38.8 <sup>***</sup>	5.2
	23:45-23:50 HOUR	41.7 <sup>V</sup>	39.4 <sup>***</sup>	40.2 <sup>V</sup>	38.8 <sup>***</sup>	1.4
	23:50-23:55 HOUR	42.5 <sup>V</sup>	39.4 <sup>***</sup>	42.5 <sup>V</sup>	38.8 <sup>***</sup>	3.7
	23:55-00:00 HOUR	43.4 <sup>V</sup>	39.4 <sup>***</sup>	44.4 <sup>V</sup>	38.8 <sup>***</sup>	5.6
SEPTEMBER 6, 2022 T22AR978-0008	<b>NIGHT TIME</b>					
	00:00-00:05 HOUR	42.6 <sup>V</sup>	39.4 <sup>***</sup>	42.6 <sup>V</sup>	38.8 <sup>***</sup>	3.8
	00:05-00:10 HOUR	42.4 <sup>V</sup>	39.4 <sup>***</sup>	42.4 <sup>V</sup>	38.8 <sup>***</sup>	3.6
	00:10-00:15 HOUR	43.2 <sup>V</sup>	39.4 <sup>***</sup>	44.2 <sup>V</sup>	38.8 <sup>***</sup>	5.4
	00:15-00:20 HOUR	42.1 <sup>V</sup>	39.4 <sup>***</sup>	42.1 <sup>V</sup>	38.8 <sup>***</sup>	3.4
	00:20-00:25 HOUR	42.3 <sup>V</sup>	39.4 <sup>***</sup>	42.3 <sup>V</sup>	38.8 <sup>***</sup>	3.5
	00:25-00:30 HOUR	41.9 <sup>V</sup>	39.4 <sup>***</sup>	41.9 <sup>V</sup>	38.8 <sup>***</sup>	3.1
	00:30-00:35 HOUR	41.3 <sup>V</sup>	39.4 <sup>***</sup>	39.8 <sup>V</sup>	38.8 <sup>***</sup>	1.0
	00:35-00:40 HOUR	41.4 <sup>V</sup>	39.4 <sup>***</sup>	39.9 <sup>V</sup>	38.8 <sup>***</sup>	1.1
	00:40-00:45 HOUR	41.7 <sup>V</sup>	39.4 <sup>***</sup>	40.2 <sup>V</sup>	38.8 <sup>***</sup>	1.4
	00:45-00:50 HOUR	41.9 <sup>V</sup>	39.4 <sup>***</sup>	41.9 <sup>V</sup>	38.8 <sup>***</sup>	1.3
	00:50-00:55 HOUR	40.8 <sup>V</sup>	39.4 <sup>***</sup>	36.8 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
NO NOISES CAPTURED NO NOISES CAPTURED BY THE GROUP (THAILAND) COLLECT						

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• REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.

4/9

2022-U072065

DATE	TIME*	RESULT (dB(A))				
		POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNNOYANCE NOISE LEVEL
SEPTEMBER 6, 2022 T22AR978-0008	<b>NIGHT TIME</b>					
	00:55-01:00 HOUR	42.3 <sup>V</sup>	39.4 <sup>***</sup>	42.3 <sup>V</sup>	38.8 <sup>***</sup>	3.5
	01:00-01:05 HOUR	40.8 <sup>V</sup>	39.4 <sup>***</sup>	36.8 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	01:05-01:10 HOUR	42.6 <sup>V</sup>	39.4 <sup>***</sup>	42.6 <sup>V</sup>	38.8 <sup>***</sup>	3.8
	01:10-01:15 HOUR	40.7 <sup>V</sup>	39.4 <sup>***</sup>	36.7 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	01:15-01:20 HOUR	40.9 <sup>V</sup>	39.4 <sup>***</sup>	39.4 <sup>V</sup>	38.8 <sup>***</sup>	0.6
	01:20-01:25 HOUR	40.1 <sup>V</sup>	39.4 <sup>***</sup>	36.1 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	01:25-01:30 HOUR	40.9 <sup>V</sup>	39.4 <sup>***</sup>	39.4 <sup>V</sup>	38.8 <sup>***</sup>	0.6
	01:30-01:35 HOUR	41.7 <sup>V</sup>	39.4 <sup>***</sup>	40.2 <sup>V</sup>	38.8 <sup>***</sup>	1.4
	01:35-01:40 HOUR	40.5 <sup>V</sup>	39.4 <sup>***</sup>	36.5 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	01:40-01:45 HOUR	43.3 <sup>V</sup>	39.4 <sup>***</sup>	44.3 <sup>V</sup>	38.8 <sup>***</sup>	5.5
	01:45-01:50 HOUR	40.1 <sup>V</sup>	39.4 <sup>***</sup>	36.1 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	01:50-01:55 HOUR	41.1 <sup>V</sup>	39.4 <sup>***</sup>	39.6 <sup>V</sup>	38.8 <sup>***</sup>	0.8
	01:55-02:00 HOUR	40.3 <sup>V</sup>	39.4 <sup>***</sup>	36.3 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	02:00-02:05 HOUR	40.0 <sup>V</sup>	39.4 <sup>***</sup>	36.0 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	02:05-02:10 HOUR	39.9 <sup>V</sup>	39.4 <sup>***</sup>	35.9 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	02:10-02:15 HOUR	40.3 <sup>V</sup>	39.4 <sup>***</sup>	36.3 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	02:15-02:20 HOUR	40.3 <sup>V</sup>	39.4 <sup>***</sup>	36.3 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	02:20-02:25 HOUR	41.3 <sup>V</sup>	39.4 <sup>***</sup>	39.8 <sup>V</sup>	38.8 <sup>***</sup>	1.0
	02:25-02:30 HOUR	39.4 <sup>V</sup>	39.4 <sup>***</sup>	35.4 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	02:30-02:35 HOUR	40.5 <sup>V</sup>	39.4 <sup>***</sup>	36.5 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	02:35-02:40 HOUR	39.8 <sup>V</sup>	39.4 <sup>***</sup>	35.8 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	02:40-02:45 HOUR	40.5 <sup>V</sup>	39.4 <sup>***</sup>	36.5 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	02:45-02:50 HOUR	40.3 <sup>V</sup>	39.4 <sup>***</sup>	36.3 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	02:50-02:55 HOUR	40.6 <sup>V</sup>	39.4 <sup>***</sup>	36.6 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	02:55-03:00 HOUR	42.1 <sup>V</sup>	39.4 <sup>***</sup>	42.1 <sup>V</sup>	38.8 <sup>***</sup>	3.3
	03:00-03:05 HOUR	40.0 <sup>V</sup>	39.4 <sup>***</sup>	36.0 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	03:05-03:10 HOUR	40.0 <sup>V</sup>	39.4 <sup>***</sup>	36.0 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	03:10-03:15 HOUR	41.0 <sup>V</sup>	39.4 <sup>***</sup>	39.5 <sup>V</sup>	38.8 <sup>***</sup>	0.7
	03:15-03:20 HOUR	40.0 <sup>V</sup>	39.4 <sup>***</sup>	36.0 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	03:20-03:25 HOUR	40.3 <sup>V</sup>	39.4 <sup>***</sup>	36.3 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	03:25-03:30 HOUR	40.2 <sup>V</sup>	39.4 <sup>***</sup>	36.2 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	03:30-03:35 HOUR	45.2 <sup>V</sup>	39.4 <sup>***</sup>	46.7 <sup>V</sup>	38.8 <sup>***</sup>	7.9
	03:35-03:40 HOUR	43.9 <sup>V</sup>	39.4 <sup>***</sup>	45.4 <sup>V</sup>	38.8 <sup>***</sup>	6.6
	03:40-03:45 HOUR	41.4 <sup>V</sup>	39.4 <sup>***</sup>	39.9 <sup>V</sup>	38.8 <sup>***</sup>	1.1
	03:45-03:50 HOUR	42.2 <sup>V</sup>	39.4 <sup>***</sup>	42.2 <sup>V</sup>	38.8 <sup>***</sup>	3.4
	03:50-03:55 HOUR	40.7 <sup>V</sup>	39.4 <sup>***</sup>	36.7 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	03:55-04:00 HOUR	41.8 <sup>V</sup>	39.4 <sup>***</sup>	40.3 <sup>V</sup>	38.8 <sup>***</sup>	1.5
	04:00-04:05 HOUR	43.1 <sup>V</sup>	39.4 <sup>***</sup>	44.1 <sup>V</sup>	38.8 <sup>***</sup>	5.3
	04:05-04:10 HOUR	43.5 <sup>V</sup>	39.4 <sup>***</sup>	44.5 <sup>V</sup>	38.8 <sup>***</sup>	5.7
	04:10-04:15 HOUR	41.2 <sup>V</sup>	39.4 <sup>***</sup>	39.7 <sup>V</sup>	38.8 <sup>***</sup>	0.9
	04:15-04:20 HOUR	41.3 <sup>V</sup>	39.4 <sup>***</sup>	39.8 <sup>V</sup>	38.8 <sup>***</sup>	1.0
	04:20-04:25 HOUR	40.7 <sup>V</sup>	39.4 <sup>***</sup>	36.7 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	04:25-04:30 HOUR	40.6 <sup>V</sup>	39.4 <sup>***</sup>	36.6 <sup>V</sup>	38.8 <sup>***</sup>	NOT SIGNIFICANT <sup>3</sup>
	04:30-04:35 HOUR	41.6 <sup>V</sup>	39.4 <sup>***</sup>	40.1 <sup>V</sup>	38.8 <sup>***</sup>	1.3
	04:35-04:40 HOUR	41.8 <sup>V</sup>	39.4 <sup>***</sup>	40.3 <sup>V</sup>	38.8 <sup>***</sup>	1.5
NO NOISES CAPTURED NO NOISES CAPTURED BY THE GROUP (THAILAND) COLLECT						

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5/9

2022-U072065

DATE	TIME*	RESULT (dB(A))				
		POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNNOYANCE NOISE LEVEL
SEPTEMBER 6, 2022 T22AR978-0008	NIGHT TIME <sup>M</sup>					
	04:40-04:45 HOUR	41.7 <sup>V</sup>	39.4 <sup>***</sup>	40.2 <sup>V</sup>	38.8 <sup>***</sup>	1.4
	04:45-04:50 HOUR	42.2 <sup>V</sup>	39.4 <sup>***</sup>	42.2 <sup>V</sup>	38.8 <sup>***</sup>	3.4
	04:50-04:55 HOUR	41.6 <sup>V</sup>	39.4 <sup>***</sup>	40.1 <sup>V</sup>	38.8 <sup>***</sup>	1.3
	04:55-05:00 HOUR	41.7 <sup>V</sup>	39.4 <sup>***</sup>	40.2 <sup>V</sup>	38.8 <sup>***</sup>	1.4
	05:00-05:05 HOUR	42.3 <sup>V</sup>	39.4 <sup>***</sup>	42.3 <sup>V</sup>	38.8 <sup>***</sup>	3.5
	05:05-05:10 HOUR	43.2 <sup>V</sup>	39.4 <sup>***</sup>	44.2 <sup>V</sup>	38.8 <sup>***</sup>	5.4
	05:10-05:15 HOUR	42.4 <sup>V</sup>	39.4 <sup>***</sup>	42.4 <sup>V</sup>	38.8 <sup>***</sup>	3.6
	05:15-05:20 HOUR	42.4 <sup>V</sup>	39.4 <sup>***</sup>	42.4 <sup>V</sup>	38.8 <sup>***</sup>	3.6
	05:20-05:25 HOUR	41.9 <sup>V</sup>	39.4 <sup>***</sup>	41.9 <sup>V</sup>	38.8 <sup>***</sup>	3.1
	05:25-05:30 HOUR	45.7 <sup>V</sup>	39.4 <sup>***</sup>	47.2 <sup>V</sup>	38.8 <sup>***</sup>	8.4
	05:30-05:35 HOUR	45.0 <sup>V</sup>	39.4 <sup>***</sup>	46.5 <sup>V</sup>	38.8 <sup>***</sup>	7.7
	05:35-05:40 HOUR	41.1 <sup>V</sup>	39.4 <sup>***</sup>	39.6 <sup>V</sup>	38.8 <sup>***</sup>	0.8
	05:40-05:45 HOUR	44.3 <sup>V</sup>	39.4 <sup>***</sup>	45.8 <sup>V</sup>	38.8 <sup>***</sup>	7.0
05:45-05:50 HOUR	42.2 <sup>V</sup>	39.4 <sup>***</sup>	42.2 <sup>V</sup>	38.8 <sup>***</sup>	3.4	
05:50-05:55 HOUR	45.4 <sup>V</sup>	39.4 <sup>***</sup>	46.9 <sup>V</sup>	38.8 <sup>***</sup>	8.1	
05:55-06:00 HOUR	44.9 <sup>V</sup>	39.4 <sup>***</sup>	46.4 <sup>V</sup>	38.8 <sup>***</sup>	7.6	
	DAY TIME <sup>M</sup>					
	06:00-07:00 HOUR	45.2 <sup>V</sup>	43.5 <sup>**</sup>	40.7 <sup>V</sup>	41.2 <sup>**</sup>	NOT SIGNIFICANT <sup>1</sup>
SEPTEMBER 6, 2022 T22AR978-0009	DAY TIME <sup>M</sup>					
	07:00-08:00 HOUR	48.1 <sup>V</sup>	44.2 <sup>**</sup>	46.1 <sup>V</sup>	41.1 <sup>**</sup>	5.0
	08:00-09:00 HOUR	51.1 <sup>V</sup>	44.2 <sup>**</sup>	50.1 <sup>V</sup>	41.1 <sup>**</sup>	9.0
	09:00-10:00 HOUR	50.9 <sup>V</sup>	44.2 <sup>**</sup>	49.9 <sup>V</sup>	41.1 <sup>**</sup>	8.8
	10:00-11:00 HOUR	49.3 <sup>V</sup>	44.2 <sup>**</sup>	47.8 <sup>V</sup>	41.1 <sup>**</sup>	6.7
	11:00-12:00 HOUR	44.7 <sup>V</sup>	44.2 <sup>**</sup>	37.7 <sup>V</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1</sup>
	12:00-13:00 HOUR	43.4 <sup>V</sup>	44.2 <sup>**</sup>	36.4 <sup>V</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1</sup>
	13:00-14:00 HOUR	44.5 <sup>V</sup>	44.2 <sup>**</sup>	37.5 <sup>V</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1</sup>
	14:00-15:00 HOUR	45.3 <sup>V</sup>	44.2 <sup>**</sup>	38.3 <sup>V</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1</sup>
	15:00-16:00 HOUR	44.5 <sup>V</sup>	44.2 <sup>**</sup>	37.5 <sup>V</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1</sup>
	16:00-17:00 HOUR	45.8 <sup>V</sup>	44.2 <sup>**</sup>	41.3 <sup>V</sup>	41.1 <sup>**</sup>	0.2
	17:00-18:00 HOUR	44.5 <sup>V</sup>	44.2 <sup>**</sup>	37.5 <sup>V</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1</sup>
	18:00-19:00 HOUR	46.2 <sup>V</sup>	44.2 <sup>**</sup>	41.7 <sup>V</sup>	41.1 <sup>**</sup>	0.6
	19:00-20:00 HOUR	45.3 <sup>V</sup>	44.2 <sup>**</sup>	38.3 <sup>V</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1</sup>
20:00-21:00 HOUR	44.1 <sup>V</sup>	44.2 <sup>**</sup>	37.1 <sup>V</sup>	41.1 <sup>**</sup>	NOT SIGNIFICANT <sup>1</sup>	
21:00-22:00 HOUR	48.5 <sup>V</sup>	44.2 <sup>**</sup>	46.5 <sup>V</sup>	41.1 <sup>**</sup>	5.4	
	NIGHT TIME <sup>M</sup>					
	22:00-22:05 HOUR	45.6 <sup>V</sup>	42.1 <sup>***</sup>	46.6 <sup>V</sup>	41.1 <sup>***</sup>	5.5
	22:05-22:10 HOUR	45.6 <sup>V</sup>	42.1 <sup>***</sup>	46.6 <sup>V</sup>	41.1 <sup>***</sup>	5.5
	22:10-22:15 HOUR	45.2 <sup>V</sup>	42.1 <sup>***</sup>	45.2 <sup>V</sup>	41.1 <sup>***</sup>	4.1
	22:15-22:20 HOUR	45.7 <sup>V</sup>	42.1 <sup>***</sup>	46.7 <sup>V</sup>	41.1 <sup>***</sup>	5.6
	22:20-22:25 HOUR	45.8 <sup>V</sup>	42.1 <sup>***</sup>	46.8 <sup>V</sup>	41.1 <sup>***</sup>	5.7
	22:25-22:30 HOUR	46.2 <sup>V</sup>	42.1 <sup>***</sup>	47.2 <sup>V</sup>	41.1 <sup>***</sup>	6.1
	22:30-22:35 HOUR	45.5 <sup>V</sup>	42.1 <sup>***</sup>	45.5 <sup>V</sup>	41.1 <sup>***</sup>	4.4
	22:35-22:40 HOUR	46.1 <sup>V</sup>	42.1 <sup>***</sup>	47.1 <sup>V</sup>	41.1 <sup>***</sup>	6.0
	22:40-22:45 HOUR	46.0 <sup>V</sup>	42.1 <sup>***</sup>	47.0 <sup>V</sup>	41.1 <sup>***</sup>	5.9
	22:45-22:50 HOUR	46.4 <sup>V</sup>	42.1 <sup>***</sup>	47.4 <sup>V</sup>	41.1 <sup>***</sup>	6.3



DATE	TIME*	RESULT (dB(A))				
		POARJHC 2 : PA RA RAI THONG TEMPLE (UTM WGS 84 ZONE 47P 727036E 1731971N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNNOYANCE NOISE LEVEL
SEPTEMBER 7, 2022 T22AR978-0009	NIGHT TIME **					
	02:30-02:35 HOUR	47.1 <sup>II</sup>	42.1 <sup>***</sup>	46.6 <sup>II</sup>	41.1 <sup>***</sup>	7.5
	02:35-02:40 HOUR	45.8 <sup>II</sup>	42.1 <sup>***</sup>	46.8 <sup>II</sup>	41.1 <sup>***</sup>	5.7
	02:40-02:45 HOUR	44.9 <sup>II</sup>	42.1 <sup>***</sup>	44.9 <sup>II</sup>	41.1 <sup>***</sup>	3.8
	02:45-02:50 HOUR	44.5 <sup>II</sup>	42.1 <sup>***</sup>	43.0 <sup>II</sup>	41.1 <sup>***</sup>	1.9
	02:50-02:55 HOUR	43.7 <sup>II</sup>	42.1 <sup>***</sup>	42.2 <sup>II</sup>	41.1 <sup>***</sup>	1.1
	02:55-03:00 HOUR	44.9 <sup>II</sup>	42.1 <sup>***</sup>	44.9 <sup>II</sup>	41.1 <sup>***</sup>	3.8
	03:00-03:05 HOUR	42.6 <sup>II</sup>	42.1 <sup>***</sup>	38.6 <sup>II</sup>	41.1 <sup>***</sup>	NOT SIGNIFICANT <sup>II</sup>
	03:05-03:10 HOUR	42.6 <sup>II</sup>	42.1 <sup>***</sup>	38.6 <sup>II</sup>	41.1 <sup>***</sup>	NOT SIGNIFICANT <sup>II</sup>
	03:10-03:15 HOUR	48.6 <sup>II</sup>	42.1 <sup>***</sup>	50.6 <sup>II</sup>	41.1 <sup>***</sup>	9.5
	03:15-03:20 HOUR	46.0 <sup>II</sup>	42.1 <sup>***</sup>	47.0 <sup>II</sup>	41.1 <sup>***</sup>	5.9
	03:20-03:25 HOUR	45.2 <sup>II</sup>	42.1 <sup>***</sup>	45.2 <sup>II</sup>	41.1 <sup>***</sup>	4.1
	03:25-03:30 HOUR	48.5 <sup>II</sup>	42.1 <sup>***</sup>	50.0 <sup>II</sup>	41.1 <sup>***</sup>	8.9
	03:30-03:35 HOUR	44.9 <sup>II</sup>	42.1 <sup>***</sup>	44.9 <sup>II</sup>	41.1 <sup>***</sup>	3.8
	03:35-03:40 HOUR	47.3 <sup>II</sup>	42.1 <sup>***</sup>	48.8 <sup>II</sup>	41.1 <sup>***</sup>	7.7
	03:40-03:45 HOUR	44.2 <sup>II</sup>	42.1 <sup>***</sup>	42.7 <sup>II</sup>	41.1 <sup>***</sup>	1.6
	03:45-03:50 HOUR	46.3 <sup>II</sup>	42.1 <sup>***</sup>	47.3 <sup>II</sup>	41.1 <sup>***</sup>	6.2
	03:50-03:55 HOUR	46.7 <sup>II</sup>	42.1 <sup>***</sup>	48.2 <sup>II</sup>	41.1 <sup>***</sup>	7.1
	03:55-04:00 HOUR	44.9 <sup>II</sup>	42.1 <sup>***</sup>	44.9 <sup>II</sup>	41.1 <sup>***</sup>	3.8
	04:00-04:05 HOUR	45.9 <sup>II</sup>	42.1 <sup>***</sup>	46.9 <sup>II</sup>	41.1 <sup>***</sup>	5.8
	04:05-04:10 HOUR	47.0 <sup>II</sup>	42.1 <sup>***</sup>	48.5 <sup>II</sup>	41.1 <sup>***</sup>	7.4
	04:10-04:15 HOUR	46.0 <sup>II</sup>	42.1 <sup>***</sup>	47.0 <sup>II</sup>	41.1 <sup>***</sup>	5.9
	04:15-04:20 HOUR	42.1 <sup>II</sup>	42.1 <sup>***</sup>	38.1 <sup>II</sup>	41.1 <sup>***</sup>	NOT SIGNIFICANT <sup>II</sup>
	04:20-04:25 HOUR	45.3 <sup>II</sup>	42.1 <sup>***</sup>	45.3 <sup>II</sup>	41.1 <sup>***</sup>	4.2
	04:25-04:30 HOUR	43.4 <sup>II</sup>	42.1 <sup>***</sup>	39.4 <sup>II</sup>	41.1 <sup>***</sup>	NOT SIGNIFICANT <sup>II</sup>
	04:30-04:35 HOUR	45.5 <sup>II</sup>	42.1 <sup>***</sup>	45.5 <sup>II</sup>	41.1 <sup>***</sup>	4.4
	04:35-04:40 HOUR	46.3 <sup>II</sup>	42.1 <sup>***</sup>	47.3 <sup>II</sup>	41.1 <sup>***</sup>	6.2
	04:40-04:45 HOUR	43.0 <sup>II</sup>	42.1 <sup>***</sup>	39.0 <sup>II</sup>	41.1 <sup>***</sup>	NOT SIGNIFICANT <sup>II</sup>
	04:45-04:50 HOUR	46.1 <sup>II</sup>	42.1 <sup>***</sup>	47.1 <sup>II</sup>	41.1 <sup>***</sup>	6.0
	04:50-04:55 HOUR	45.6 <sup>II</sup>	42.1 <sup>***</sup>	46.6 <sup>II</sup>	41.1 <sup>***</sup>	5.5
	04:55-05:00 HOUR	43.3 <sup>II</sup>	42.1 <sup>***</sup>	39.3 <sup>II</sup>	41.1 <sup>***</sup>	NOT SIGNIFICANT <sup>II</sup>
	05:00-05:05 HOUR	45.4 <sup>II</sup>	42.1 <sup>***</sup>	45.4 <sup>II</sup>	41.1 <sup>***</sup>	4.3
	05:05-05:10 HOUR	45.1 <sup>II</sup>	42.1 <sup>***</sup>	45.1 <sup>II</sup>	41.1 <sup>***</sup>	4.0
	05:10-05:15 HOUR	45.0 <sup>II</sup>	42.1 <sup>***</sup>	45.0 <sup>II</sup>	41.1 <sup>***</sup>	3.9
	05:15-05:20 HOUR	43.4 <sup>II</sup>	42.1 <sup>***</sup>	39.4 <sup>II</sup>	41.1 <sup>***</sup>	NOT SIGNIFICANT <sup>II</sup>
	05:20-05:25 HOUR	46.5 <sup>II</sup>	42.1 <sup>***</sup>	47.5 <sup>II</sup>	41.1 <sup>***</sup>	6.4
	05:25-05:30 HOUR	44.4 <sup>II</sup>	42.1 <sup>***</sup>	42.9 <sup>II</sup>	41.1 <sup>***</sup>	1.8
	05:30-05:35 HOUR	48.0 <sup>II</sup>	42.1 <sup>***</sup>	49.5 <sup>II</sup>	41.1 <sup>***</sup>	8.4
	05:35-05:40 HOUR	44.7 <sup>II</sup>	42.1 <sup>***</sup>	44.7 <sup>II</sup>	41.1 <sup>***</sup>	3.6
	05:40-05:45 HOUR	44.3 <sup>II</sup>	42.1 <sup>***</sup>	42.8 <sup>II</sup>	41.1 <sup>***</sup>	1.7
	05:45-05:50 HOUR	44.1 <sup>II</sup>	42.1 <sup>***</sup>	42.6 <sup>II</sup>	41.1 <sup>***</sup>	1.5
	05:50-05:55 HOUR	43.4 <sup>II</sup>	42.1 <sup>***</sup>	39.4 <sup>II</sup>	41.1 <sup>***</sup>	NOT SIGNIFICANT <sup>II</sup>
	05:55-06:00 HOUR	43.9 <sup>II</sup>	42.1 <sup>***</sup>	42.4 <sup>II</sup>	41.1 <sup>***</sup>	1.3
	DAY TIME **					
	06:00-07:00 HOUR	45.1 <sup>II</sup>	44.2 <sup>II</sup>	38.1 <sup>II</sup>	41.1 <sup>***</sup>	NOT SIGNIFICANT <sup>II</sup>

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2022-0072065

## ANALYSIS REPORT

CUSTOMER NAME : ECO ORIENT RESOURCES (THAILAND) LTD.  
ADDRESS : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAKHOTHIN ROAD CHATUCHAK BANGKOK 10900  
CONTACT INFORMATION : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
MEASURING PLACE : POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)  
MEASURING TYPE : AMBIENT (ANNOYANCE NOISE)  
MEASURING DATE : SEPTEMBER 8-11, 2022  
MEASURING TIME : \*  
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER AND CALCULATION  
MEASURED BY : [REDACTED]  
ANALYSIS NO. : T22AR978-0004 - T22AR978-0006

DATE	TIME*	RESULT (dB(A))				
		POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNNOYANCE NOISE LEVEL
SEPTEMBER 8, 2022 T22AR978-0004	DAY TIME **					
	07:00-08:00 HOUR	54.4 <sup>V</sup>	51.7 <sup>II</sup>	51.4 <sup>V</sup>	49.7 <sup>II</sup>	1.7
	08:00-09:00 HOUR	53.5 <sup>V</sup>	51.7 <sup>II</sup>	49.0 <sup>V</sup>	49.7 <sup>II</sup>	NOT SIGNIFICANT <sup>II</sup>
	09:00-10:00 HOUR	54.1 <sup>V</sup>	51.7 <sup>II</sup>	49.6 <sup>V</sup>	49.7 <sup>II</sup>	NOT SIGNIFICANT <sup>II</sup>
	10:00-11:00 HOUR	52.2 <sup>V</sup>	51.7 <sup>II</sup>	45.2 <sup>V</sup>	49.7 <sup>II</sup>	NOT SIGNIFICANT <sup>II</sup>
	11:00-12:00 HOUR	52.6 <sup>V</sup>	51.7 <sup>II</sup>	45.6 <sup>V</sup>	49.7 <sup>II</sup>	NOT SIGNIFICANT <sup>II</sup>
	12:00-13:00 HOUR	52.5 <sup>V</sup>	51.7 <sup>II</sup>	45.5 <sup>V</sup>	49.7 <sup>II</sup>	NOT SIGNIFICANT <sup>II</sup>
	13:00-14:00 HOUR	53.0 <sup>V</sup>	51.7 <sup>II</sup>	46.0 <sup>V</sup>	49.7 <sup>II</sup>	NOT SIGNIFICANT <sup>II</sup>
	14:00-15:00 HOUR	52.1 <sup>V</sup>	51.7 <sup>II</sup>	45.1 <sup>V</sup>	49.7 <sup>II</sup>	NOT SIGNIFICANT <sup>II</sup>
	15:00-16:00 HOUR	52.1 <sup>V</sup>	51.7 <sup>II</sup>	45.1 <sup>V</sup>	49.7 <sup>II</sup>	NOT SIGNIFICANT <sup>II</sup>
	16:00-17:00 HOUR	53.5 <sup>V</sup>	51.7 <sup>II</sup>	49.0 <sup>V</sup>	49.7 <sup>II</sup>	NOT SIGNIFICANT <sup>II</sup>
	17:00-18:00 HOUR	52.8 <sup>V</sup>	51.7 <sup>II</sup>	45.8 <sup>V</sup>	49.7 <sup>II</sup>	NOT SIGNIFICANT <sup>II</sup>
	18:00-19:00 HOUR	55.7 <sup>V</sup>	51.7 <sup>II</sup>	53.7 <sup>V</sup>	49.7 <sup>II</sup>	4.0
	19:00-20:00 HOUR	55.3 <sup>V</sup>	51.7 <sup>II</sup>	53.3 <sup>V</sup>	49.7 <sup>II</sup>	3.6
	20:00-21:00 HOUR	55.9 <sup>V</sup>	51.7 <sup>II</sup>	53.9 <sup>V</sup>	49.7 <sup>II</sup>	4.2
	21:00-22:00 HOUR	54.5 <sup>V</sup>	51.7 <sup>II</sup>	51.5 <sup>V</sup>	49.7 <sup>II</sup>	1.8
	NIGHT TIME **					
	22:00-22:05 HOUR	50.8 <sup>II</sup>	46.9 <sup>***</sup>	51.8 <sup>II</sup>	46.0 <sup>***</sup>	5.8
	22:05-22:10 HOUR	50.0 <sup>II</sup>	46.9 <sup>***</sup>	50.0 <sup>II</sup>	46.0 <sup>***</sup>	4.0
	22:10-22:15 HOUR	51.7 <sup>II</sup>	46.9 <sup>***</sup>	53.2 <sup>II</sup>	46.0 <sup>***</sup>	7.2
	22:15-22:20 HOUR	51.8 <sup>II</sup>	46.9 <sup>***</sup>	53.3 <sup>II</sup>	46.0 <sup>***</sup>	7.3
	22:20-22:25 HOUR	51.7 <sup>II</sup>	46.9 <sup>***</sup>	53.2 <sup>II</sup>	46.0 <sup>***</sup>	7.2
	22:25-22:30 HOUR	51.5 <sup>II</sup>	46.9 <sup>***</sup>	53.0 <sup>II</sup>	46.0 <sup>***</sup>	7.0
	22:30-22:35 HOUR	52.4 <sup>II</sup>	46.9 <sup>***</sup>	53.9 <sup>II</sup>	46.0 <sup>***</sup>	7.9
	22:35-22:40 HOUR	51.0 <sup>II</sup>	46.9 <sup>***</sup>	52.0 <sup>II</sup>	46.0 <sup>***</sup>	6.0
	22:40-22:45 HOUR	50.3 <sup>II</sup>	46.9 <sup>***</sup>	50.3 <sup>II</sup>	46.0 <sup>***</sup>	4.3
	22:45-22:50 HOUR	50.4 <sup>II</sup>	46.9 <sup>***</sup>	51.4 <sup>II</sup>	46.0 <sup>***</sup>	5.4
	22:50-22:55 HOUR	49.9 <sup>II</sup>	46.9 <sup>***</sup>	49.9 <sup>II</sup>	46.0 <sup>***</sup>	3.9
	22:55-23:00 HOUR	50.6 <sup>II</sup>	46.9 <sup>***</sup>	51.6 <sup>II</sup>	46.0 <sup>***</sup>	5.6
	23:00-23:05 HOUR	50.7 <sup>II</sup>	46.9 <sup>***</sup>	51.7 <sup>II</sup>	46.0 <sup>***</sup>	5.7
	23:05-23:10 HOUR	50.4 <sup>II</sup>	46.9 <sup>***</sup>	51.4 <sup>II</sup>	46.0 <sup>***</sup>	5.4
	23:10-23:15 HOUR	48.7 <sup>II</sup>	46.9 <sup>***</sup>	47.2 <sup>II</sup>	46.0 <sup>***</sup>	1.2
	23:15-23:20 HOUR	49.7 <sup>II</sup>	46.9 <sup>***</sup>	49.7 <sup>II</sup>	46.0 <sup>***</sup>	3.7
	23:20-23:25 HOUR	49.6 <sup>II</sup>	46.9 <sup>***</sup>	49.6 <sup>II</sup>	46.0 <sup>***</sup>	3.6
	23:25-23:30 HOUR	49.7 <sup>II</sup>	46.9 <sup>***</sup>	49.7 <sup>II</sup>	46.0 <sup>***</sup>	3.7
	23:30-23:35 HOUR	49.6 <sup>II</sup>	46.9 <sup>***</sup>	49.6 <sup>II</sup>	46.0 <sup>***</sup>	3.6

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1/9



## REMARK :

- CASE 3 CALCULATION (DURING 06:00 TO 22:00 HOUR) : SPECIFIC NOISE LEVEL CONTINUOUSLY OCCUR AT LEAST 1 HOUR, MEASURING AS L<sub>avg</sub> 1 hour
  - CASE 4 CALCULATION (DURING 22:00 TO 06:00 HOUR) : SPECIFIC NOISE LEVEL OCCUR IN RESTFUL AREA OR NIGHT TIME, MEASURING AS L<sub>avg</sub> 5 minutes
  - NOT SIGNIFICANT MEANS ANNOYING NOISE LEVEL IS LOWER THAN 0.
- \*\* PERCENTILE LEVEL 90 (L<sub>avg</sub>) IS MIDDLE VALUE OF 3 TIMES MEASURING (15 MINUTES MEASURING DURING 06:00 TO 22:00 HOUR) AND RESIDUAL NOISE LEVEL (L<sub>avg</sub> 5 minutes) IS CHOSE AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.
- \*\*\* PERCENTILE LEVEL 90 (L<sub>avg</sub>) IS MIDDLE VALUE OF 3 TIMES MEASURING (15 MINUTES MEASURING DURING 22:00 TO 06:00 HOUR) AND RESIDUAL NOISE LEVEL (L<sub>avg</sub> 5 minutes) IS CHOSE AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.



LABORATORY SUPERVISOR

SEPTEMBER 15, 2022

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9/9

2022-0072065

DATE	TIME*	RESULT (dB(A))				
		POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNNOYANCE NOISE LEVEL
SEPTEMBER 8, 2022 T22AR978-0004	NIGHT TIME **					
	23:25-23:30 HOUR	50.8 <sup>II</sup>	46.9 <sup>***</sup>	51.8 <sup>II</sup>	46.0 <sup>***</sup>	5.8
	23:30-23:35 HOUR	48.4 <sup>II</sup>	46.9 <sup>***</sup>	46.9 <sup>II</sup>	46.0 <sup>***</sup>	0.9
	23:35-23:40 HOUR	48.8 <sup>II</sup>	46.9 <sup>***</sup>	47.3 <sup>II</sup>	46.0 <sup>***</sup>	1.3
	23:40-23:45 HOUR	49.0 <sup>II</sup>	46.9 <sup>***</sup>	47.5 <sup>II</sup>	46.0 <sup>***</sup>	1.5
	23:45-23:50 HOUR	50.2 <sup>II</sup>	46.9 <sup>***</sup>	50.2 <sup>II</sup>	46.0 <sup>***</sup>	4.2
	23:50-23:55 HOUR	50.0 <sup>II</sup>	46.9 <sup>***</sup>	50.0 <sup>II</sup>	46.0 <sup>***</sup>	4.0
	23:55-00:00 HOUR	49.4 <sup>II</sup>	46.9 <sup>***</sup>	49.4 <sup>II</sup>	46.0 <sup>***</sup>	3.4
	NIGHT TIME **					
	00:00-00:05 HOUR	47.9 <sup>II</sup>	46.9 <sup>***</sup>	43.9 <sup>II</sup>	46.0 <sup>***</sup>	NOT SIGNIFICANT <sup>II</sup>
	00:05-00:10 HOUR	48.5 <sup>II</sup>	46.9 <sup>***</sup>	47.0 <sup>II</sup>	46.0 <sup>***</sup>	1.0



DATE	TIME*	RESULT (dB(A))				
		POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNNOYANCE NOISE LEVEL
SEPTEMBER 5, 2022 T22AR978-0004	<b>NIGHT TIME</b> <sup>1/2</sup>					
	03:05-03:10 HOUR	47.0 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:10-03:15 HOUR	46.1 <sup>1/2</sup>	46.9 <sup>1/2</sup>	44.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:15-03:20 HOUR	47.1 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:20-03:25 HOUR	47.3 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.3 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:25-03:30 HOUR	47.1 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:30-03:35 HOUR	47.0 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:35-03:40 HOUR	47.9 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.9 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:40-03:45 HOUR	47.2 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.2 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:45-03:50 HOUR	47.5 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:50-03:55 HOUR	47.7 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.7 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:55-04:00 HOUR	47.9 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.9 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	04:00-04:05 HOUR	47.4 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.4 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	04:05-04:10 HOUR	47.4 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.4 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	04:10-04:15 HOUR	47.5 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	04:15-04:20 HOUR	47.5 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	04:20-04:25 HOUR	47.3 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.3 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	04:25-04:30 HOUR	47.5 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	04:30-04:35 HOUR	47.8 <sup>1/2</sup>	46.9 <sup>1/2</sup>	43.8 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	04:35-04:40 HOUR	48.1 <sup>1/2</sup>	46.9 <sup>1/2</sup>	44.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	04:40-04:45 HOUR	48.0 <sup>1/2</sup>	46.9 <sup>1/2</sup>	44.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	04:45-04:50 HOUR	48.8 <sup>1/2</sup>	46.9 <sup>1/2</sup>	47.3 <sup>1/2</sup>	46.0 <sup>1/2</sup>	1.3
	04:50-04:55 HOUR	51.4 <sup>1/2</sup>	46.9 <sup>1/2</sup>	52.9 <sup>1/2</sup>	46.0 <sup>1/2</sup>	6.9
	04:55-05:00 HOUR	50.4 <sup>1/2</sup>	46.9 <sup>1/2</sup>	51.4 <sup>1/2</sup>	46.0 <sup>1/2</sup>	5.4
	05:00-05:05 HOUR	53.7 <sup>1/2</sup>	46.9 <sup>1/2</sup>	55.7 <sup>1/2</sup>	46.0 <sup>1/2</sup>	9.7
	05:05-05:10 HOUR	52.1 <sup>1/2</sup>	46.9 <sup>1/2</sup>	53.6 <sup>1/2</sup>	46.0 <sup>1/2</sup>	7.6
	05:10-05:15 HOUR	52.2 <sup>1/2</sup>	46.9 <sup>1/2</sup>	53.7 <sup>1/2</sup>	46.0 <sup>1/2</sup>	7.7
	05:15-05:20 HOUR	50.8 <sup>1/2</sup>	46.9 <sup>1/2</sup>	51.8 <sup>1/2</sup>	46.0 <sup>1/2</sup>	5.8
	05:20-05:25 HOUR	51.7 <sup>1/2</sup>	46.9 <sup>1/2</sup>	53.2 <sup>1/2</sup>	46.0 <sup>1/2</sup>	7.2
	05:25-05:30 HOUR	50.1 <sup>1/2</sup>	46.9 <sup>1/2</sup>	50.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	4.1
	05:30-05:35 HOUR	49.8 <sup>1/2</sup>	46.9 <sup>1/2</sup>	49.8 <sup>1/2</sup>	46.0 <sup>1/2</sup>	3.8
	05:35-05:40 HOUR	49.4 <sup>1/2</sup>	46.9 <sup>1/2</sup>	49.4 <sup>1/2</sup>	46.0 <sup>1/2</sup>	3.4
	05:40-05:45 HOUR	50.0 <sup>1/2</sup>	46.9 <sup>1/2</sup>	50.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	4.0
	05:45-05:50 HOUR	50.1 <sup>1/2</sup>	46.9 <sup>1/2</sup>	50.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	4.1
	05:50-05:55 HOUR	48.8 <sup>1/2</sup>	46.9 <sup>1/2</sup>	47.3 <sup>1/2</sup>	46.0 <sup>1/2</sup>	1.3
	05:55-06:00 HOUR	50.0 <sup>1/2</sup>	46.9 <sup>1/2</sup>	50.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	4.0
	<b>DAY TIME</b> <sup>1/2</sup>					
	06:00-07:00 HOUR	50.5 <sup>1/2</sup>	51.7 <sup>1/2</sup>	43.5 <sup>1/2</sup>	49.7 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
SEPTEMBER 9, 2022 T22AR978-0005	<b>DAY TIME</b> <sup>1/2</sup>					
	07:00-08:00 HOUR	54.1 <sup>1/2</sup>	49.2 <sup>1/2</sup>	52.6 <sup>1/2</sup>	46.7 <sup>1/2</sup>	5.9
	08:00-09:00 HOUR	56.7 <sup>1/2</sup>	49.2 <sup>1/2</sup>	56.2 <sup>1/2</sup>	46.7 <sup>1/2</sup>	9.5
	09:00-10:00 HOUR	54.3 <sup>1/2</sup>	49.2 <sup>1/2</sup>	52.8 <sup>1/2</sup>	46.7 <sup>1/2</sup>	6.1
	10:00-11:00 HOUR	53.3 <sup>1/2</sup>	49.2 <sup>1/2</sup>	51.3 <sup>1/2</sup>	46.7 <sup>1/2</sup>	4.6
	11:00-12:00 HOUR	54.6 <sup>1/2</sup>	49.2 <sup>1/2</sup>	53.1 <sup>1/2</sup>	46.7 <sup>1/2</sup>	6.4
	12:00-13:00 HOUR	49.5 <sup>1/2</sup>	49.2 <sup>1/2</sup>	42.5 <sup>1/2</sup>	46.7 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	13:00-14:00 HOUR	51.6 <sup>1/2</sup>	49.2 <sup>1/2</sup>	47.1 <sup>1/2</sup>	46.7 <sup>1/2</sup>	0.4

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REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.  
3/9  
2022-U072064

DATE	TIME*	RESULT (dB(A))				
		POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNNOYANCE NOISE LEVEL
SEPTEMBER 9, 2022 T22AR978-0005	<b>DAY TIME</b> <sup>1/2</sup>					
	14:00-15:00 HOUR	54.2 <sup>1/2</sup>	49.2 <sup>1/2</sup>	52.7 <sup>1/2</sup>	46.7 <sup>1/2</sup>	6.0
	15:00-16:00 HOUR	53.0 <sup>1/2</sup>	49.2 <sup>1/2</sup>	51.0 <sup>1/2</sup>	46.7 <sup>1/2</sup>	4.3
	16:00-17:00 HOUR	52.6 <sup>1/2</sup>	49.2 <sup>1/2</sup>	49.6 <sup>1/2</sup>	46.7 <sup>1/2</sup>	2.9
	17:00-18:00 HOUR	51.0 <sup>1/2</sup>	49.2 <sup>1/2</sup>	46.5 <sup>1/2</sup>	46.7 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	18:00-19:00 HOUR	50.9 <sup>1/2</sup>	49.2 <sup>1/2</sup>	46.4 <sup>1/2</sup>	46.7 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	19:00-20:00 HOUR	50.2 <sup>1/2</sup>	49.2 <sup>1/2</sup>	43.2 <sup>1/2</sup>	46.7 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	20:00-21:00 HOUR	49.7 <sup>1/2</sup>	49.2 <sup>1/2</sup>	42.7 <sup>1/2</sup>	46.7 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	21:00-22:00 HOUR	50.0 <sup>1/2</sup>	49.2 <sup>1/2</sup>	43.0 <sup>1/2</sup>	46.7 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	<b>NIGHT TIME</b> <sup>1/2</sup>					
	22:00-22:05 HOUR	48.9 <sup>1/2</sup>	46.0 <sup>1/2</sup>	48.9 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.5
	22:05-22:10 HOUR	48.8 <sup>1/2</sup>	46.0 <sup>1/2</sup>	48.8 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.4
	22:10-22:15 HOUR	49.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	49.1 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.7
	22:15-22:20 HOUR	48.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.6 <sup>1/2</sup>	45.4 <sup>1/2</sup>	1.2
	22:20-22:25 HOUR	48.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.6 <sup>1/2</sup>	45.4 <sup>1/2</sup>	1.2
	22:25-22:30 HOUR	48.3 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.8 <sup>1/2</sup>	45.4 <sup>1/2</sup>	1.4
	22:30-22:35 HOUR	49.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	49.0 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.6
	22:35-22:40 HOUR	48.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	48.5 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.1
	22:40-22:45 HOUR	49.9 <sup>1/2</sup>	46.0 <sup>1/2</sup>	50.9 <sup>1/2</sup>	45.4 <sup>1/2</sup>	5.5
	22:45-22:50 HOUR	48.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	48.5 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.1
	22:50-22:55 HOUR	49.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	49.1 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.7
	22:55-23:00 HOUR	49.2 <sup>1/2</sup>	46.0 <sup>1/2</sup>	49.2 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.8
	23:00-23:05 HOUR	49.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	50.5 <sup>1/2</sup>	45.4 <sup>1/2</sup>	5.1
	23:05-23:10 HOUR	49.9 <sup>1/2</sup>	46.0 <sup>1/2</sup>	50.9 <sup>1/2</sup>	45.4 <sup>1/2</sup>	5.5
	23:10-23:15 HOUR	48.7 <sup>1/2</sup>	46.0 <sup>1/2</sup>	48.7 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.3
	23:15-23:20 HOUR	49.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	49.0 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.6
	23:20-23:25 HOUR	48.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.6 <sup>1/2</sup>	45.4 <sup>1/2</sup>	1.2
	23:25-23:30 HOUR	48.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.6 <sup>1/2</sup>	45.4 <sup>1/2</sup>	1.2
	23:30-23:35 HOUR	48.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.6 <sup>1/2</sup>	45.4 <sup>1/2</sup>	1.2
	23:35-23:40 HOUR	48.8 <sup>1/2</sup>	46.0 <sup>1/2</sup>	48.8 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.4
	23:40-23:45 HOUR	48.2 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.7 <sup>1/2</sup>	45.4 <sup>1/2</sup>	1.3
	23:45-23:50 HOUR	49.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	49.0 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.6
	23:50-23:55 HOUR	49.2 <sup>1/2</sup>	46.0 <sup>1/2</sup>	49.2 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.8
	23:55-00:00 HOUR	48.3 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.8 <sup>1/2</sup>	45.4 <sup>1/2</sup>	1.4
SEPTEMBER 10, 2022 T22AR978-0006	<b>NIGHT TIME</b> <sup>1/2</sup>					
	00:00-00:05 HOUR	49.4 <sup>1/2</sup>	46.0 <sup>1/2</sup>	49.4 <sup>1/2</sup>	45.4 <sup>1/2</sup>	4.0
	00:05-00:10 HOUR	48.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.6 <sup>1/2</sup>	45.4 <sup>1/2</sup>	1.2
	00:10-00:15 HOUR	48.9 <sup>1/2</sup>	46.0 <sup>1/2</sup>	48.9 <sup>1/2</sup>	45.4 <sup>1/2</sup>	3.5
	00:15-00:20 HOUR	50.3 <sup>1/2</sup>	46.0 <sup>1/2</sup>	51.3 <sup>1/2</sup>	45.4 <sup>1/2</sup>	5.9
	00:20-00:25 HOUR	48.4 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.9 <sup>1/2</sup>	45.4 <sup>1/2</sup>	1.5
	00:25-00:30 HOUR	47.8 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.3 <sup>1/2</sup>	45.4 <sup>1/2</sup>	0.9
	00:30-00:35 HOUR	47.7 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.2 <sup>1/2</sup>	45.4 <sup>1/2</sup>	0.8
	00:35-00:40 HOUR	47.4 <sup>1/2</sup>	46.0 <sup>1/2</sup>	43.4 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	00:40-00:45 HOUR	47.4 <sup>1/2</sup>	46.0 <sup>1/2</sup>	43.4 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	00:45-00:50 HOUR	46.6 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.6 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	00:50-00:55 HOUR	46.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.5 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>

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4/9  
2022-U072064

DATE	TIME*	RESULT (dB(A))				
		POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNNOYANCE NOISE LEVEL
SEPTEMBER 10, 2022 T22AR978-0005	NIGHT TIME <sup>1/</sup>					
	00:55-01:00 HOUR	46.6 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.6 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	01:00-01:05 HOUR	47.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	43.0 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	01:05-01:10 HOUR	47.9 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.4 <sup>1/2</sup>	45.4 <sup>1/2</sup>	1.0
	01:10-01:15 HOUR	46.4 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.4 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	01:15-01:20 HOUR	47.6 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.1 <sup>1/2</sup>	45.4 <sup>1/2</sup>	0.7
	01:20-01:25 HOUR	47.2 <sup>1/2</sup>	46.0 <sup>1/2</sup>	43.2 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	01:25-01:30 HOUR	46.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.0 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	01:30-01:35 HOUR	46.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.5 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	01:35-01:40 HOUR	47.8 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.3 <sup>1/2</sup>	45.4 <sup>1/2</sup>	0.9
	01:40-01:45 HOUR	46.8 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.8 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	01:45-01:50 HOUR	46.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.1 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	01:50-01:55 HOUR	45.9 <sup>1/2</sup>	46.0 <sup>1/2</sup>	41.9 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	01:55-02:00 HOUR	46.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.0 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	02:00-02:05 HOUR	46.8 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.8 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	02:05-02:10 HOUR	49.8 <sup>1/2</sup>	46.0 <sup>1/2</sup>	50.8 <sup>1/2</sup>	45.4 <sup>1/2</sup>	5.4
	02:10-02:15 HOUR	46.6 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.6 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	02:15-02:20 HOUR	47.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	43.0 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	02:20-02:25 HOUR	46.4 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.4 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	02:25-02:30 HOUR	46.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.1 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	02:30-02:35 HOUR	46.7 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.7 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	02:35-02:40 HOUR	46.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.0 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	02:40-02:45 HOUR	47.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	43.1 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	02:45-02:50 HOUR	45.9 <sup>1/2</sup>	46.0 <sup>1/2</sup>	41.9 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	02:50-02:55 HOUR	45.7 <sup>1/2</sup>	46.0 <sup>1/2</sup>	41.7 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	02:55-03:00 HOUR	46.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.5 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:00-03:05 HOUR	46.9 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.9 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:05-03:10 HOUR	46.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.5 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:10-03:15 HOUR	45.7 <sup>1/2</sup>	46.0 <sup>1/2</sup>	41.7 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
	03:15-03:20 HOUR	46.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.0 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>
03:20-03:25 HOUR	46.2 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.2 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>	
03:25-03:30 HOUR	46.2 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.2 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>	
03:30-03:35 HOUR	49.4 <sup>1/2</sup>	46.0 <sup>1/2</sup>	49.4 <sup>1/2</sup>	45.4 <sup>1/2</sup>	4.0	
03:35-03:40 HOUR	47.6 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.1 <sup>1/2</sup>	45.4 <sup>1/2</sup>	0.7	
03:40-03:45 HOUR	46.9 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.9 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>	
03:45-03:50 HOUR	46.6 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.6 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>	
03:50-03:55 HOUR	47.3 <sup>1/2</sup>	46.0 <sup>1/2</sup>	43.3 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>	
03:55-04:00 HOUR	46.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.5 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>	
04:00-04:05 HOUR	50.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	52.0 <sup>1/2</sup>	45.4 <sup>1/2</sup>	6.6	
04:05-04:10 HOUR	47.6 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.1 <sup>1/2</sup>	45.4 <sup>1/2</sup>	0.7	
04:10-04:15 HOUR	46.7 <sup>1/2</sup>	46.0 <sup>1/2</sup>	42.7 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>	
04:15-04:20 HOUR	47.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	43.0 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>	
04:20-04:25 HOUR	47.5 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	45.4 <sup>1/2</sup>	0.6	
04:25-04:30 HOUR	47.4 <sup>1/2</sup>	46.0 <sup>1/2</sup>	43.4 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>	
04:30-04:35 HOUR	48.0 <sup>1/2</sup>	46.0 <sup>1/2</sup>	46.5 <sup>1/2</sup>	45.4 <sup>1/2</sup>	1.1	
04:35-04:40 HOUR	47.1 <sup>1/2</sup>	46.0 <sup>1/2</sup>	43.1 <sup>1/2</sup>	45.4 <sup>1/2</sup>	NOT SIGNIFICANT <sup>1/2</sup>	



DATE	TIME*	RESULT (4B(A))				
		POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 10, 2022	<b>NIGHT TIME</b> <sup>1/</sup>					
T22AR978-0006	22:50-23:55 HOUR	49.3 <sup>1/</sup>	45.9 ***	49.3 <sup>1/</sup>	43.4 ***	5.9
	22:55-23:00 HOUR	49.3 <sup>1/</sup>	45.9 ***	49.3 <sup>1/</sup>	43.4 ***	5.9
	23:00-23:05 HOUR	49.0 <sup>1/</sup>	45.9 ***	49.0 <sup>1/</sup>	43.4 ***	5.6
	23:05-23:10 HOUR	50.0 <sup>1/</sup>	45.9 ***	51.0 <sup>1/</sup>	43.4 ***	7.6
	23:10-23:15 HOUR	49.0 <sup>1/</sup>	45.9 ***	49.0 <sup>1/</sup>	43.4 ***	5.6
	23:15-23:20 HOUR	48.8 <sup>1/</sup>	45.9 ***	48.8 <sup>1/</sup>	43.4 ***	5.4
	23:20-23:25 HOUR	46.4 <sup>1/</sup>	45.9 ***	42.4 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	23:25-23:30 HOUR	47.2 <sup>1/</sup>	45.9 ***	43.2 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	23:30-23:35 HOUR	47.0 <sup>1/</sup>	45.9 ***	43.0 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	23:35-23:40 HOUR	46.8 <sup>1/</sup>	45.9 ***	42.8 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	23:40-23:45 HOUR	47.1 <sup>1/</sup>	45.9 ***	43.1 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	23:45-23:50 HOUR	45.8 <sup>1/</sup>	45.9 ***	41.8 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	23:50-23:55 HOUR	45.6 <sup>1/</sup>	45.9 ***	41.6 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	23:55-00:00 HOUR	47.2 <sup>1/</sup>	45.9 ***	43.2 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
SEPTEMBER 11, 2022	<b>NIGHT TIME</b> <sup>1/</sup>					
T22AR978-0006	00:00-00:05 HOUR	46.3 <sup>1/</sup>	45.9 ***	42.3 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	00:05-00:10 HOUR	45.8 <sup>1/</sup>	45.9 ***	41.8 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	00:10-00:15 HOUR	46.0 <sup>1/</sup>	45.9 ***	42.0 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	00:15-00:20 HOUR	45.4 <sup>1/</sup>	45.9 ***	41.4 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	00:20-00:25 HOUR	45.9 <sup>1/</sup>	45.9 ***	41.9 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	00:25-00:30 HOUR	47.2 <sup>1/</sup>	45.9 ***	43.2 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	00:30-00:35 HOUR	50.2 <sup>1/</sup>	45.9 ***	51.2 <sup>1/</sup>	43.4 ***	7.8
	00:35-00:40 HOUR	49.3 <sup>1/</sup>	45.9 ***	49.3 <sup>1/</sup>	43.4 ***	5.9
	00:40-00:45 HOUR	49.9 <sup>1/</sup>	45.9 ***	50.9 <sup>1/</sup>	43.4 ***	7.5
	00:45-00:50 HOUR	48.2 <sup>1/</sup>	45.9 ***	46.7 <sup>1/</sup>	43.4 ***	3.3
	00:50-00:55 HOUR	48.8 <sup>1/</sup>	45.9 ***	48.8 <sup>1/</sup>	43.4 ***	5.4
	00:55-01:00 HOUR	48.4 <sup>1/</sup>	45.9 ***	48.4 <sup>1/</sup>	43.4 ***	5.0
	01:00-01:05 HOUR	48.5 <sup>1/</sup>	45.9 ***	48.5 <sup>1/</sup>	43.4 ***	5.1
	01:05-01:10 HOUR	49.5 <sup>1/</sup>	45.9 ***	50.5 <sup>1/</sup>	43.4 ***	7.1
	01:10-01:15 HOUR	49.0 <sup>1/</sup>	45.9 ***	49.0 <sup>1/</sup>	43.4 ***	5.6
	01:15-01:20 HOUR	48.8 <sup>1/</sup>	45.9 ***	48.8 <sup>1/</sup>	43.4 ***	5.4
	01:20-01:25 HOUR	47.7 <sup>1/</sup>	45.9 ***	46.2 <sup>1/</sup>	43.4 ***	2.8
	01:25-01:30 HOUR	48.2 <sup>1/</sup>	45.9 ***	46.7 <sup>1/</sup>	43.4 ***	3.3
	01:30-01:35 HOUR	47.7 <sup>1/</sup>	45.9 ***	46.2 <sup>1/</sup>	43.4 ***	2.8
	01:35-01:40 HOUR	48.5 <sup>1/</sup>	45.9 ***	48.5 <sup>1/</sup>	43.4 ***	5.1
	01:40-01:45 HOUR	47.6 <sup>1/</sup>	45.9 ***	46.1 <sup>1/</sup>	43.4 ***	2.7
	01:45-01:50 HOUR	47.0 <sup>1/</sup>	45.9 ***	43.0 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	01:50-01:55 HOUR	46.4 <sup>1/</sup>	45.9 ***	42.4 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	01:55-02:00 HOUR	47.9 <sup>1/</sup>	45.9 ***	46.4 <sup>1/</sup>	43.4 ***	3.0
	02:00-02:05 HOUR	47.5 <sup>1/</sup>	45.9 ***	46.0 <sup>1/</sup>	43.4 ***	2.6
	02:05-02:10 HOUR	48.2 <sup>1/</sup>	45.9 ***	46.7 <sup>1/</sup>	43.4 ***	3.3
	02:10-02:15 HOUR	46.7 <sup>1/</sup>	45.9 ***	42.7 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	02:15-02:20 HOUR	47.4 <sup>1/</sup>	45.9 ***	45.9 <sup>1/</sup>	43.4 ***	2.5
	02:20-02:25 HOUR	47.6 <sup>1/</sup>	45.9 ***	46.1 <sup>1/</sup>	43.4 ***	2.7
	02:25-02:30 HOUR	46.3 <sup>1/</sup>	45.9 ***	42.3 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>

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DATE	TIME*	RESULT (4B(A))				
		POARJHC 3 : BAN TUNG YAI (UTM WGS 84 ZONE 47P 729476E 1728613N)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 11, 2022	<b>NIGHT TIME</b> <sup>1/</sup>					
T22AR978-0006	02:30-03:35 HOUR	47.1 <sup>1/</sup>	45.9 ***	43.1 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	02:35-02:40 HOUR	46.5 <sup>1/</sup>	45.9 ***	42.5 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	02:40-02:45 HOUR	47.5 <sup>1/</sup>	45.9 ***	46.0 <sup>1/</sup>	43.4 ***	2.6
	02:45-02:50 HOUR	46.4 <sup>1/</sup>	45.9 ***	42.4 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	02:50-02:55 HOUR	46.2 <sup>1/</sup>	45.9 ***	42.2 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	02:55-03:00 HOUR	47.0 <sup>1/</sup>	45.9 ***	43.0 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	03:00-03:05 HOUR	47.6 <sup>1/</sup>	45.9 ***	46.1 <sup>1/</sup>	43.4 ***	2.7
	03:05-03:10 HOUR	46.8 <sup>1/</sup>	45.9 ***	42.8 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	03:10-03:15 HOUR	46.9 <sup>1/</sup>	45.9 ***	42.9 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	03:15-03:20 HOUR	46.6 <sup>1/</sup>	45.9 ***	42.6 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	03:20-03:25 HOUR	46.8 <sup>1/</sup>	45.9 ***	42.8 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	03:25-03:30 HOUR	46.7 <sup>1/</sup>	45.9 ***	42.7 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	03:30-03:35 HOUR	48.2 <sup>1/</sup>	45.9 ***	46.7 <sup>1/</sup>	43.4 ***	3.3
	03:35-03:40 HOUR	47.8 <sup>1/</sup>	45.9 ***	46.3 <sup>1/</sup>	43.4 ***	2.9
	03:40-03:45 HOUR	47.1 <sup>1/</sup>	45.9 ***	43.1 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	03:45-03:50 HOUR	47.1 <sup>1/</sup>	45.9 ***	43.1 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	03:50-03:55 HOUR	47.5 <sup>1/</sup>	45.9 ***	46.0 <sup>1/</sup>	43.4 ***	2.6
	03:55-04:00 HOUR	47.2 <sup>1/</sup>	45.9 ***	43.2 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	04:00-04:05 HOUR	49.0 <sup>1/</sup>	45.9 ***	49.0 <sup>1/</sup>	43.4 ***	5.6
	04:05-04:10 HOUR	47.5 <sup>1/</sup>	45.9 ***	46.0 <sup>1/</sup>	43.4 ***	2.6
	04:10-04:15 HOUR	47.1 <sup>1/</sup>	45.9 ***	43.1 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	04:15-04:20 HOUR	47.3 <sup>1/</sup>	45.9 ***	43.3 <sup>1/</sup>	43.4 ***	NOT SIGNIFICANT <sup>2/</sup>
	04:20-04:25 HOUR	47.4 <sup>1/</sup>	45.9 ***	45.9 <sup>1/</sup>	43.4 ***	2.5
	04:25-04:30 HOUR	47.5 <sup>1/</sup>	45.9 ***	46.0 <sup>1/</sup>	43.4 ***	2.6
	04:30-04:35 HOUR	47.9 <sup>1/</sup>	45.9 ***	46.4 <sup>1/</sup>	43.4 ***	3.0
	04:35-04:40 HOUR	47.6 <sup>1/</sup>	45.9 ***	46.1 <sup>1/</sup>	43.4 ***	2.7
	04:40-04:45 HOUR	47.8 <sup>1/</sup>	45.9 ***	46.3 <sup>1/</sup>	43.4 ***	2.9
	04:45-04:50 HOUR	48.6 <sup>1/</sup>	45.9 ***	48.6 <sup>1/</sup>	43.4 ***	5.2
	04:50-04:55 HOUR	49.7 <sup>1/</sup>	45.9 ***	50.7 <sup>1/</sup>	43.4 ***	7.3
	04:55-05:00 HOUR	49.0 <sup>1/</sup>	45.9 ***	49.0 <sup>1/</sup>	43.4 ***	5.6
	05:00-05:05 HOUR	50.8 <sup>1/</sup>	45.9 ***	52.3 <sup>1/</sup>	43.4 ***	8.9
	05:05-05:10 HOUR	50.2 <sup>1/</sup>	45.9 ***	51.2 <sup>1/</sup>	43.4 ***	7.8
	05:10-05:15 HOUR	49.9 <sup>1/</sup>	45.9 ***	50.9 <sup>1/</sup>	43.4 ***	7.5
	05:15-05:20 HOUR	51.1 <sup>1/</sup>	45.9 ***	52.6 <sup>1/</sup>	43.4 ***	9.2
	05:20-05:25 HOUR	51.2 <sup>1/</sup>	45.9 ***	52.7 <sup>1/</sup>	43.4 ***	9.3
	05:25-05:30 HOUR	48.5 <sup>1/</sup>	45.9 ***	48.5 <sup>1/</sup>	43.4 ***	5.1
	05:30-05:35 HOUR	51.6 <sup>1/</sup>	45.9 ***	53.1 <sup>1/</sup>	43.4 ***	9.7
	05:35-05:40 HOUR	49.5 <sup>1/</sup>	45.9 ***	50.5 <sup>1/</sup>	43.4 ***	7.1
	05:40-05:45 HOUR	49.5 <sup>1/</sup>	45.9 ***	50.5 <sup>1/</sup>	43.4 ***	7.1
	05:45-05:50 HOUR	49.4 <sup>1/</sup>	45.9 ***	50.4 <sup>1/</sup>	43.4 ***	7.0
	05:50-05:55 HOUR	49.4 <sup>1/</sup>	45.9 ***	50.4 <sup>1/</sup>	43.4 ***	7.0
	05:55-06:00 HOUR	49.8 <sup>1/</sup>	45.9 ***	50.8 <sup>1/</sup>	43.4 ***	7.4
	<b>DAY TIME</b> <sup>1/</sup>					
	06:00-07:00 HOUR	51.6 <sup>1/</sup>	53.0 **	44.6 <sup>1/</sup>	49.8 **	NOT SIGNIFICANT <sup>2/</sup>

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**REMARK :**

- 1/ CASE 1 CALCULATION (DURING 06:00 TO 22:00 HOUR) : SPECIFIC NOISE LEVEL CONTINUOUSLY OCCUR AT LEAST 1 HOUR, MEASURING AS L<sub>avg 1 hour</sub>.
- 2/ CASE 4 CALCULATION (DURING 22:00 TO 06:00 HOUR) : SPECIFIC NOISE LEVEL OCCUR IN RESTFUL AREA OR NIGHT TIME, MEASURING AS L<sub>avg 5 minutes</sub>.
- 3/ NOT SIGNIFICANT MEANS ANNOYING NOISE LEVEL IS LOWER THAN D.

\*\* PERCENTILE LEVEL 90 (L<sub>avg 15 minutes</sub>) IS MIDDLE VALUE OF 3 TIMES MEASURING.  
(15 MINUTES MEASURING DURING 06:00 TO 22:00 HOUR)  
AND RESIDUAL NOISE LEVEL (L<sub>avg 5 minutes</sub>) IS CHOSE AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.

\*\*\* PERCENTILE LEVEL 90 (L<sub>avg 35 minutes</sub>) IS MIDDLE VALUE OF 3 TIMES MEASURING.  
(15 MINUTES MEASURING DURING 22:00 TO 06:00 HOUR)  
AND RESIDUAL NOISE LEVEL (L<sub>avg 5 minutes</sub>) IS CHOSE AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.



SEPTEMBER 19, 2022

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2022-U072064

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## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecorh.net  
**SAMPLING SOURCE** : JSW1 (UTM WGS 84 ZONE 47P 729056E 1732260N)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : SEPTEMBER 21, 2022  
**SAMPLING TIME** : 11:30 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 22, 2022  
**ANALYTICAL DATE** : SEPTEMBER 22 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078510  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AS814-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT JSW1 T22AS814-0001	REGULATORY STANDARD	DETECTION LIMIT
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H <sup>+</sup> B)	7.9 (28°C)	5.0-9.0	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER AT SITE (SM 2550 B)	28	n <sup>d</sup>	-
ELECTRICAL CONDUCTIVITY <sup>a</sup>	µmho/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	131 (28°C)	-	0.1
DISSOLVED OXYGEN <sup>a</sup>	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM 4500-O <sub>2</sub> C)	4.3	≥ 4.0	0.5
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM 2540 D)	ND	-	5.0
CHLORIDE <sup>a</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM 4500-Cl <sup>-</sup> B)	ND	-	2.0
SULPHATE <sup>a</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	4.4	-	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>a</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
<b>METALS</b>					
ARSENIC <sup>a</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0004	≤ 0.01	0.0003
BARIUM <sup>a</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3120 B)	0.020	-	0.003
CADMIUM <sup>a</sup>	mg/L Cd	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.005*, ≤ 0.05**	0.002
IRON <sup>a</sup>	mg/L Fe	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.289	-	0.005
LEAD <sup>a</sup>	mg/L Pb	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.05	0.003
MANGANESE <sup>a</sup>	mg/L Mn	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.067	≤ 1.0	0.002
MERCURY <sup>b</sup>	mg/L Hg	IN-HOUSE METHOD: UAE-TP-HEM-002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.002	0.0001

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT JSW1 T22AS814-0001	REGULATORY STANDARD	DETECTION LIMIT
NICKEL <sup>a</sup>	mg/L Ni	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.1	0.005
SELENIUM <sup>a</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	-	0.0005
TOTAL CHROMIUM <sup>a</sup>	mg/L Cr	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	-	0.005
ZINC <sup>a</sup>	mg/L Zn	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 1.0	0.003
<b>MICROBIOLOGY</b>					
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM 9221 E)	11	≤ 4,000	1.8
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

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

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

<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.

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

REGULATORY STANDARD : SURFACE WATER QUALITY STANDARDS CLASS 3, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, NO.8, B.E. 2537, ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT, B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 111, PART 16, DATED FEBRUARY 24, B.E. 2537 (1994).

CLASS 3 : MEDIUM CLEAN FRESH SURFACE WATER RESOURCES USED FOR

(1) CONSUMPTION, BUT PASSING THROUGH ON ORDINARY TREATMENT PROCESS BEFORE USING

(2) AGRICULTURE

n<sup>d</sup> : NATURALLY BUT CHANGING NOT MORE THAN 3°C

≤ 0.005\* : WHEN WATER HARDNESS NOT MORE THAN 100 mg/L AS CaCO<sub>3</sub>

≤ 0.05\*\* : WHEN WATER HARDNESS MORE THAN 100 mg/L AS CaCO<sub>3</sub>

ND : NON-DETECTABLE

LABORATORY SUPERVISOR

OCTOBER 6, 2022

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2022-U078510

## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecorh.net  
**SAMPLING SOURCE** : JSW2 (UTM WGS 84 ZONE 47P 723065E 1733141N)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : SEPTEMBER 21, 2022  
**SAMPLING TIME** : 09:30 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 22, 2022  
**ANALYTICAL DATE** : SEPTEMBER 22 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078511  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AS814-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT JSW2 T22AS814-0002	REGULATORY STANDARD	DETECTION LIMIT
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H <sup>+</sup> B)	7.6 (29°C)	5.0-9.0	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER AT SITE (SM 2550 B)	29	n <sup>d</sup>	-
ELECTRICAL CONDUCTIVITY <sup>a</sup>	µmho/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	143 (29°C)	-	0.1
DISSOLVED OXYGEN <sup>a</sup>	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM 4500-O <sub>2</sub> C)	4.6	≥ 4.0	0.5
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM 2540 D)	38.8	-	5.0
CHLORIDE <sup>a</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM 4500-Cl <sup>-</sup> B)	ND	-	2.0
SULPHATE <sup>a</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	3.9	-	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>a</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
<b>METALS</b>					
ARSENIC <sup>a</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0004	≤ 0.01	0.0003
BARIUM <sup>a</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3120 B)	0.054	-	0.003
CADMIUM <sup>a</sup>	mg/L Cd	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.005*, ≤ 0.05**	0.002
IRON <sup>a</sup>	mg/L Fe	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	1.88	-	0.005
LEAD <sup>a</sup>	mg/L Pb	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.05	0.003
MANGANESE <sup>a</sup>	mg/L Mn	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.061	≤ 1.0	0.002
MERCURY <sup>b</sup>	mg/L Hg	IN-HOUSE METHOD: UAE-TP-HEM-002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.002	0.0001

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT JSW2 T22AS814-0002	REGULATORY STANDARD	DETECTION LIMIT
NICKEL <sup>a</sup>	mg/L Ni	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.1	0.005
SELENIUM <sup>a</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	-	0.0005
TOTAL CHROMIUM <sup>a</sup>	mg/L Cr	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	-	0.005
ZINC <sup>a</sup>	mg/L Zn	IN-HOUSE METHOD: UAE-TP-SW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 1.0	0.003
<b>MICROBIOLOGY</b>					
FAECAL COLIFORM BACTERIA <sup>b</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM 9221 E)	4,900	≤ 4,000	1.8
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

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

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

<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.

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

REGULATORY STANDARD : SURFACE WATER QUALITY STANDARDS CLASS 3, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD, NO.8, B.E. 2537, ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT, B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 111, PART 16, DATED FEBRUARY 24, B.E. 2537 (1994).

CLASS 3 : MEDIUM CLEAN FRESH SURFACE WATER RESOURCES USED FOR

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(2) AGRICULTURE

n<sup>d</sup> : NATURALLY BUT CHANGING NOT MORE THAN 3°C

≤ 0.005\* : WHEN WATER HARDNESS NOT MORE THAN 100 mg/L AS CaCO<sub>3</sub>

≤ 0.05\*\* : WHEN WATER HARDNESS MORE THAN 100 mg/L AS CaCO<sub>3</sub>

ND : NON-DETECTABLE

< LOQ : < LIMIT OF QUANTIFICATION (ZINC ≥ 0.003 AND < 0.025 mg/L)

LABORATORY SUPERVISOR

OCTOBER 6, 2022

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2022-U078511



# ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : J5W3 (UTM WGS 84 ZONE 47P 732017E 1730684N)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : SEPTEMBER 21, 2022  
**SAMPLING TIME** : 10:50 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 22, 2022  
**ANALYTICAL DATE** : SEPTEMBER 22 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078512  
**WORK NO.** : 2022-00609  
**ANALYSIS NO.** : T22AS814-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT J5W3 T22AS814-0003	REGULATORY STANDARD	DETECTION LIMIT
pH <sup>°</sup>	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H <sup>+</sup> B)	7.5 (34°C)	5.0-9.0	-
TEMPERATURE <sup>°</sup>	°C	THERMOMETER AT SITE (SM 2550 B)	34	n <sup>°</sup>	-
ELECTRICAL CONDUCTIVITY <sup>°</sup>	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	58.7 (34°C)	-	0.1
DISSOLVED OXYGEN <sup>°</sup>	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM 4500-O <sub>2</sub> C)	4.3	≥ 4.0	0.5
TOTAL SUSPENDED SOLIDS <sup>°</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM 2540 D)	20.3	-	5.0
CHLORIDE <sup>°</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM 4500-Cl <sup>-</sup> B)	2.4	-	2.0
SULPHATE <sup>°</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	0.6	-	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>°</sup>	mg/L	SOLVENT EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
<b>METALS</b>					
ARSENIC <sup>°</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0006	≤ 0.01	0.0003
BARIUM <sup>°</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3120 B)	0.045	-	0.003
CADMIUM <sup>°</sup>	mg/L Cd	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.005*, 0.05**	0.002
IRON <sup>°</sup>	mg/L Fe	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	5.24	-	0.005
LEAD <sup>°</sup>	mg/L Pb	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.05	0.003
MANGANESE <sup>°</sup>	mg/L Mn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.725	≤ 10	0.002
MERCURY <sup>°</sup>	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.002	0.0001

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT J5W3 T22AS814-0003	REGULATORY STANDARD	DETECTION LIMIT
NICKEL <sup>°</sup>	mg/L Ni	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.1	0.005
SELENIUM <sup>°</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	-	0.0005
TOTAL CHROMIUM <sup>°</sup>	mg/L Cr	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	-	0.005
ZINC <sup>°</sup>	mg/L Zn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 10	0.003
<b>MICROBIOLOGY</b>					
FAECAL COLIFORM BACTERIA <sup>°</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM 9221 E)	23	≤ 4,000	18
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT					
			YELLOW/CLAY BROWN		

° : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
° : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
° : 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, 23<sup>RD</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

REGULATORY STANDARD : SURFACE WATER QUALITY STANDARDS CLASS 3, NOTIFICATION OF THE NATIONAL ENVIRONMENTAL BOARD, NO.8, B.E. 2537 ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT, B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE III, VOL. 111, PART 16, DATED FEBRUARY 24, B.E. 2537 (1994).

CLASS 3 : MEDIUM CLEAN FRESH SURFACE WATER RESOURCES USED FOR  
(1) CONSUMPTION, BUT PASSING THROUGH ON ORDINARY TREATMENT PROCESS BEFORE USING  
(2) AGRICULTURE

n<sup>°</sup> : NATURALLY BUT CHANGING NOT MORE THAN 3°C  
≤ 0.005\* : WHEN WATER HARDNESS NOT MORE THAN 100 mg/L AS CaCO<sub>3</sub>  
≤ 0.05\*\* : WHEN WATER HARDNESS MORE THAN 100 mg/L AS CaCO<sub>3</sub>  
ND : NON-DETECTABLE

LABORATORY SUPERVISOR

OCTOBER 6, 2022

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2022-U078512

# ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : J5W4 (UTM WGS 84 ZONE 47P 729503E 1732357N)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : SEPTEMBER 21, 2022  
**SAMPLING TIME** : 11:50 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 22, 2022  
**ANALYTICAL DATE** : SEPTEMBER 22 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078513  
**WORK NO.** : 2022-00609  
**ANALYSIS NO.** : T22AS814-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT J5W4 T22AS814-0004	REGULATORY STANDARD	DETECTION LIMIT
pH <sup>°</sup>	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H <sup>+</sup> B)	7.8 (30°C)	5.0-9.0	-
TEMPERATURE <sup>°</sup>	°C	THERMOMETER AT SITE (SM 2550 B)	30	n <sup>°</sup>	-
ELECTRICAL CONDUCTIVITY <sup>°</sup>	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	313 (30°C)	-	0.1
DISSOLVED OXYGEN <sup>°</sup>	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM 4500-O <sub>2</sub> C)	4.5	≥ 4.0	0.5
TOTAL SUSPENDED SOLIDS <sup>°</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM 2540 D)	5.7	-	5.0
CHLORIDE <sup>°</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM 4500-Cl <sup>-</sup> B)	12.2	-	2.0
SULPHATE <sup>°</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	4.9	-	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>°</sup>	mg/L	SOLVENT EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
<b>METALS</b>					
ARSENIC <sup>°</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0005	≤ 0.01	0.0003
BARIUM <sup>°</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3120 B)	0.120	-	0.003
CADMIUM <sup>°</sup>	mg/L Cd	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.005*, 0.05**	0.002
IRON <sup>°</sup>	mg/L Fe	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.154	-	0.005
LEAD <sup>°</sup>	mg/L Pb	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.05	0.003
MANGANESE <sup>°</sup>	mg/L Mn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.193	≤ 10	0.002
MERCURY <sup>°</sup>	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.002	0.0001

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT J5W4 T22AS814-0004	REGULATORY STANDARD	DETECTION LIMIT
NICKEL <sup>°</sup>	mg/L Ni	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.1	0.005
SELENIUM <sup>°</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	-	0.0005
TOTAL CHROMIUM <sup>°</sup>	mg/L Cr	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	-	0.005
ZINC <sup>°</sup>	mg/L Zn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 10	0.003
<b>MICROBIOLOGY</b>					
FAECAL COLIFORM BACTERIA <sup>°</sup>	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM 9221 E)	110	≤ 4,000	18
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT					
			YELLOW/CLAY BROWN		

° : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
° : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
° : 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, 23<sup>RD</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

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n<sup>°</sup> : NATURALLY BUT CHANGING NOT MORE THAN 3°C  
≤ 0.005\* : WHEN WATER HARDNESS NOT MORE THAN 100 mg/L AS CaCO<sub>3</sub>  
≤ 0.05\*\* : WHEN WATER HARDNESS MORE THAN 100 mg/L AS CaCO<sub>3</sub>  
ND : NON-DETECTABLE

LABORATORY SUPERVISOR

OCTOBER 6, 2022

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2022-U078513



## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : JSWS (UTM WGS 84 ZONE 47P 7229947E 1732482N)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : SEPTEMBER 21, 2022  
**SAMPLING TIME** : 09:50 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 22, 2022  
**ANALYTICAL DATE** : SEPTEMBER 22 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078514  
**WORK NO.** : 2022-00609  
**ANALYSIS NO.** : T22AS814-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT JSWS T22AS814-0005	REGULATORY STANDARD	DETECTION LIMIT
pH °	-	ELECTROMETRIC METHOD AT SITE (SM 4500-HF B)	7.6 (29°C)	5.0-9.0	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM 2560 B)	29	n°	-
ELECTRICAL CONDUCTIVITY °	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	137 (29°C)	-	0.1
DISSOLVED OXYGEN °	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM 4500-O C)	4.5	≥ 4.0	0.5
TOTAL SUSPENDED SOLIDS *	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM 2540 D)	35.5	-	5.0
CHLORIDE *	mg/L Cl	ARGENTOMETRIC METHOD (SM 4500-Cl B)	ND	-	2.0
SULPHATE *	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> F)	3.4	-	0.3
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SONHLET EXTRACTION METHOD (SM 5620 D AND 5620 F)	ND	-	3
<b>METALS</b>					
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0004	≤ 0.01	0.0003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3100 B)	0.055	-	0.003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.005*, ≤ 0.05**	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	2.08	-	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.05	0.003
MANGANESE °	mg/L Mn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.084	≤ 10	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.002	0.0001

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1/2



## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : JSWS (UTM WGS 84 ZONE 47P 7229947E 1732482N)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : SEPTEMBER 21, 2022  
**SAMPLING TIME** : 10:20 HOUR  
**SAMPLING METHOD** : GRAB, GRAB AND STERILE TECHNIQUE  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 22, 2022  
**ANALYTICAL DATE** : SEPTEMBER 22 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078515  
**WORK NO.** : 2022-00609  
**ANALYSIS NO.** : T22AS814-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT JSWS T22AS814-0006	REGULATORY STANDARD	DETECTION LIMIT
pH °	-	ELECTROMETRIC METHOD AT SITE (SM 4500-HF B)	7.5 (34°C)	5.0-9.0	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM 2560 B)	34	n°	-
ELECTRICAL CONDUCTIVITY °	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	98.7 (34°C)	-	0.1
DISSOLVED OXYGEN °	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM 4500-O C)	4.6	≥ 4.0	0.5
TOTAL SUSPENDED SOLIDS *	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM 2540 D)	15.7	-	5.0
CHLORIDE *	mg/L Cl	ARGENTOMETRIC METHOD (SM 4500-Cl B)	ND	-	2.0
SULPHATE *	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> F)	ND	-	0.3
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SONHLET EXTRACTION METHOD (SM 5620 D AND 5620 F)	ND	-	3
<b>METALS</b>					
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0004	≤ 0.01	0.0003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3100 B)	0.040	-	0.003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.005*, ≤ 0.05**	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	1.59	-	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.05	0.003
MANGANESE °	mg/L Mn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.056	≤ 10	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.002	0.0001

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1/2



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT JSWS T22AS814-0005	REGULATORY STANDARD	DETECTION LIMIT
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.1	0.005
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	-	0.0005
TOTAL CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	-	0.005
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 10	0.003
<b>MICROBIOLOGY</b>					
FAECAL COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM 9221 E)	24,000	≤ 4,000	1.8
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

\* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
\* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
\* : 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, 23<sup>RD</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

REGULATORY STANDARD : SURFACE WATER QUALITY STANDARDS CLASS 3, NOTIFICATION OF THE NATIONAL ENVIRONMENTAL BOARD, NO.8, B.E. 2537 ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT, B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 111, PART 10, DATED FEBRUARY 24, B.E. 2537 (1994).

CLASS 3 : MEDIUM CLEAN FRESH SURFACE WATER RESOURCES USED FOR  
(1) CONSUMPTION, BUT PASSING THROUGH ON ORDINARY TREATMENT PROCESS BEFORE USING  
(2) AGRICULTURE

n° : NATURALLY BUT CHANGING NOT MORE THAN 3°C

≤ 0.005\* : WHEN WATER HARDNESS NOT MORE THAN 100 mg/L AS CaCO<sub>3</sub>

≤ 0.05\*\* : WHEN WATER HARDNESS MORE THAN 100 mg/L AS CaCO<sub>3</sub>

ND : NON-DETECTABLE



OCTOBER 6, 2022

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2/2

2022-U078514

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT JSWS T22AS814-0006	REGULATORY STANDARD	DETECTION LIMIT
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.1	0.005
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	-	0.0005
TOTAL CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	-	0.005
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 10	0.003
<b>MICROBIOLOGY</b>					
FAECAL COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM 9221 E)	4,900	≤ 4,000	1.8
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

\* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
\* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
\* : 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, 23<sup>RD</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.

REGULATORY STANDARD : SURFACE WATER QUALITY STANDARDS CLASS 3, NOTIFICATION OF THE NATIONAL ENVIRONMENTAL BOARD, NO.8, B.E. 2537 ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT, B.E. 2535, PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 111, PART 10, DATED FEBRUARY 24, B.E. 2537 (1994).

CLASS 3 : MEDIUM CLEAN FRESH SURFACE WATER RESOURCES USED FOR  
(1) CONSUMPTION, BUT PASSING THROUGH ON ORDINARY TREATMENT PROCESS BEFORE USING  
(2) AGRICULTURE

n° : NATURALLY BUT CHANGING NOT MORE THAN 3°C

≤ 0.005\* : WHEN WATER HARDNESS NOT MORE THAN 100 mg/L AS CaCO<sub>3</sub>

≤ 0.05\*\* : WHEN WATER HARDNESS MORE THAN 100 mg/L AS CaCO<sub>3</sub>

ND : NON-DETECTABLE



OCTOBER 6, 2022

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2/2

2022-U078515

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### ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAKHOLYOTIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : MWJHC1-1 (UTM WGS 84 ZONE 47P 729070E 1732596N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 13:30 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078151  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AS731-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MWJHC1-1 T22AS731-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H B)	7.9 (31°C)	-	-
ELECTRICAL CONDUCTIVITY <sup>a</sup>	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	511 (30°C)	-	0.1
CHLORIDE <sup>a</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM 4500-Cl B)	3.4	-	2.0
SULPHATE <sup>a</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	1.5	-	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>a</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
METALS					
ARSENIC <sup>a</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	≤ 0.01	0.0003
SELENIUM <sup>a</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	≤ 0.01	0.0005
HEXAVALENT CHROMIUM <sup>a</sup>	mg/L Cr <sup>6+</sup>	COLOURIMETRIC METHOD (SM 3500-Cr B)	ND	≤ 0.05	0.005
CADMIUM <sup>a</sup>	mg/L Cd	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.003	0.002
COPPER <sup>a</sup>	mg/L Cu	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 10	0.002
LEAD <sup>a</sup>	mg/L Pb	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.01	0.003
MANGANESE <sup>a</sup>	mg/L Mn	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.5	0.002
NICKEL <sup>a</sup>	mg/L Ni	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.02	0.005
IRON <sup>a</sup>	mg/L Fe	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.108	-	0.005

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MWJHC1-1 T22AS731-0001		
ZINC <sup>a</sup>	mg/L Zn	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 5.0	0.003
BARIUM <sup>a</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3120 B)	0.133	-	0.003
MERCURY <sup>b</sup>	mg/L Hg	IN-HOUSE METHOD: UAE/TP/HEM/002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.001	0.0001
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.20 (B.E. 2543)  
ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535.  
ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

OCTOBER 5, 2022

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2022-0078151

### ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAKHOLYOTIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : MWJHC1-2 (UTM WGS 84 ZONE 47P 729004E 1732617N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 13:30 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078152  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AS731-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MWJHC1-2 T22AS731-0002		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H B)	7.3 (30°C)	-	-
ELECTRICAL CONDUCTIVITY <sup>a</sup>	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	820 (30°C)	-	0.1
CHLORIDE <sup>a</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM 4500-Cl B)	4.4	-	2.0
SULPHATE <sup>a</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	5.9	-	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>a</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
METALS					
ARSENIC <sup>a</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	≤ 0.01	0.0003
SELENIUM <sup>a</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	≤ 0.01	0.0005
HEXAVALENT CHROMIUM <sup>a</sup>	mg/L Cr <sup>6+</sup>	COLOURIMETRIC METHOD (SM 3500-Cr B)	ND	≤ 0.05	0.005
CADMIUM <sup>a</sup>	mg/L Cd	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.003	0.002
COPPER <sup>a</sup>	mg/L Cu	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 10	0.002
LEAD <sup>a</sup>	mg/L Pb	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.01	0.003
MANGANESE <sup>a</sup>	mg/L Mn	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.5	0.002
NICKEL <sup>a</sup>	mg/L Ni	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.02	0.005
IRON <sup>a</sup>	mg/L Fe	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.053	-	0.005

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			MWJHC1-2 T22AS731-0002		
ZINC <sup>a</sup>	mg/L Zn	IN-HOUSE METHOD: UAE/TP/GW/01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 5.0	0.003
BARIUM <sup>a</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3120 B)	0.276	-	0.003
MERCURY <sup>b</sup>	mg/L Hg	IN-HOUSE METHOD: UAE/TP/HEM/002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.001	0.0001
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.20 (B.E. 2543)  
ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535.  
ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

OCTOBER 5, 2022

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2022-0078152

## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : MWJHC3-1 (UTM WGS 84 ZONE 47P 730402E 1731339N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 14:00 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078095  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22A5727-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT MWJHC3-1 T22A5727-0001	REGULATORY STANDARD	DETECTION LIMIT
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H B)	7.6 (30°C)	-	-
ELECTRICAL CONDUCTIVITY <sup>a</sup>	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	1333 (30°C)	-	0.1
CHLORIDE <sup>a</sup>	mg/L Cl	ARGENTOMETRIC METHOD (SM 4500-Cl B)	6.4	-	2.0
SULPHATE <sup>a</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	7.6	-	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>a</sup>	mg/L	SIXHLET EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
<b>METALS</b>					
ARSENIC <sup>a</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0006	≤ 0.01	0.0003
BARIUM <sup>a</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3120 B)	0.212	-	0.003
CADMIUM <sup>a</sup>	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.003	0.002
HEXAVALENT CHROMIUM <sup>a</sup>	mg/L Cr <sup>6+</sup>	COLOURIMETRIC METHOD (SM 3500-Cr B)	ND	≤ 0.05	0.006
COPPER <sup>a</sup>	mg/L Cu	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 1.0	0.002
IRON <sup>a</sup>	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.075	-	0.005
LEAD <sup>a</sup>	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 0.01	0.003
MANGANESE <sup>a</sup>	mg/L Mn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 0.5	0.002
MERCURY <sup>b</sup>	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HGM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.001	0.0001

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT MWJHC3-1 T22A5727-0001	REGULATORY STANDARD	DETECTION LIMIT
NICKEL <sup>a</sup>	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.02	0.005
SELENIUM <sup>a</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	≤ 0.01	0.0005
ZINC <sup>a</sup>	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 5.0	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.20 (B.E. 2543)  
ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535.  
ND : NON-DETECTABLE.  
< LOQ : < LIMIT OF QUANTIFICATION (COPPER ≥ 0.002 AND < 0.025 mg/L, LEAD ≥ 0.003 AND < 0.100 mg/L, MANGANESE ≥ 0.002 AND < 0.025 mg/L).

LABORATORY SUPERVISOR

OCTOBER 5, 2022

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2022-0078095

## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : MWJHC3-2 (UTM WGS 84 ZONE 47P 730578E 1731204N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 14:30 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078097  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22A5727-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT MWJHC3-2 T22A5727-0002	REGULATORY STANDARD	DETECTION LIMIT
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H B)	7.7 (30°C)	-	-
ELECTRICAL CONDUCTIVITY <sup>a</sup>	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	776 (30°C)	-	0.1
CHLORIDE <sup>a</sup>	mg/L Cl	ARGENTOMETRIC METHOD (SM 4500-Cl B)	6.4	-	2.0
SULPHATE <sup>a</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	0.8	-	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>a</sup>	mg/L	SIXHLET EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
<b>METALS</b>					
ARSENIC <sup>a</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0003	≤ 0.01	0.0003
BARIUM <sup>a</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3120 B)	0.194	-	0.003
CADMIUM <sup>a</sup>	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.003	0.002
HEXAVALENT CHROMIUM <sup>a</sup>	mg/L Cr <sup>6+</sup>	COLOURIMETRIC METHOD (SM 3500-Cr B)	ND	≤ 0.05	0.006
COPPER <sup>a</sup>	mg/L Cu	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 1.0	0.002
IRON <sup>a</sup>	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.180	-	0.005
LEAD <sup>a</sup>	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 0.01	0.003
MANGANESE <sup>a</sup>	mg/L Mn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.040	≤ 0.5	0.002
MERCURY <sup>b</sup>	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HGM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.001	0.0001

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT MWJHC3-2 T22A5727-0002	REGULATORY STANDARD	DETECTION LIMIT
NICKEL <sup>a</sup>	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.02	0.005
SELENIUM <sup>a</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	≤ 0.01	0.0005
ZINC <sup>a</sup>	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 5.0	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW		

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>c</sup> : 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, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.20 (B.E. 2543)  
ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535.  
ND : NON-DETECTABLE.  
< LOQ : < LIMIT OF QUANTIFICATION (LEAD ≥ 0.003 AND < 0.100 mg/L).

LABORATORY SUPERVISOR

OCTOBER 5, 2022

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2022-0078097



## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : MWJHCS-1 (UTM WGS 84 ZONE 47P 732015E 1732991N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 09:10 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078057  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22A5728-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT MWJHCS-1 T22A5728-0001	REGULATORY STANDARD	DETECTION LIMIT
pH <sup>°</sup>	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H B)	7.8 (29°C)	-	-
ELECTRICAL CONDUCTIVITY <sup>°</sup>	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	850 (29°C)	-	0.1
CHLORIDE <sup>°</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM 4500-Cl B)	6.8	-	2.0
SULPHATE <sup>°</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	0.5	-	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>°</sup>	mg/L	SOX-HLET EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
METALS					
ARSENIC <sup>°</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0007	≤ 0.01	0.0003
BARIUM <sup>°</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3100 B)	0.234	-	0.003
CADMIUM <sup>°</sup>	mg/L Cd	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.003	0.002
HEXAVALENT CHROMIUM <sup>°</sup>	mg/L Cr <sup>6+</sup>	COLOURIMETRIC METHOD (SM 3000-Cr B)	ND	≤ 0.05	0.006
COPPER <sup>°</sup>	mg/L Cu	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 1.0	0.002
IRON <sup>°</sup>	mg/L Fe	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	-	0.005
LEAD <sup>°</sup>	mg/L Pb	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 0.01	0.003
MANGANESE <sup>°</sup>	mg/L Mn	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.033	≤ 0.5	0.002
MERCURY <sup>°</sup>	mg/L Hg	IN-HOUSE METHOD: UAE-TP/HEM-002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.001	0.0001

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## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : MWJHCS-2 (UTM WGS 84 ZONE 47P 732073E 1732923N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 09:50 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078059  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22A5728-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT MWJHCS-2 T22A5728-0002	REGULATORY STANDARD	DETECTION LIMIT
pH <sup>°</sup>	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H B)	7.8 (29°C)	-	-
ELECTRICAL CONDUCTIVITY <sup>°</sup>	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	371 (29°C)	-	0.1
CHLORIDE <sup>°</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM 4500-Cl B)	9.8	-	2.0
SULPHATE <sup>°</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	ND	-	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>°</sup>	mg/L	SOX-HLET EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
METALS					
ARSENIC <sup>°</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0003	≤ 0.01	0.0003
BARIUM <sup>°</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3100 B)	0.211	-	0.003
CADMIUM <sup>°</sup>	mg/L Cd	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.003	0.002
HEXAVALENT CHROMIUM <sup>°</sup>	mg/L Cr <sup>6+</sup>	COLOURIMETRIC METHOD (SM 3000-Cr B)	ND	≤ 0.05	0.006
COPPER <sup>°</sup>	mg/L Cu	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 1.0	0.002
IRON <sup>°</sup>	mg/L Fe	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.635	-	0.005
LEAD <sup>°</sup>	mg/L Pb	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 0.01	0.003
MANGANESE <sup>°</sup>	mg/L Mn	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.093	≤ 0.5	0.002
MERCURY <sup>°</sup>	mg/L Hg	IN-HOUSE METHOD: UAE-TP/HEM-002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.001	0.0001

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT MWJHCS-2 T22A5728-0002	REGULATORY STANDARD	DETECTION LIMIT
NICKEL <sup>°</sup>	mg/L Ni	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.02	0.005
SELENIUM <sup>°</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	≤ 0.01	0.0005
ZINC <sup>°</sup>	mg/L Zn	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 5.0	0.003
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR YELLOW		

<sup>°</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>°</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>°</sup> : 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, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO 20 (B.E. 2543)  
ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535

ND : NON-DETECTABLE  
< LOQ : < LIMIT OF QUANTITATION (IRON ≥ 0.005 AND < 0.005 mg/L, LEAD ≥ 0.003 AND < 0.100 mg/L)

LABORATORY SUPERVISOR

OCTOBER 5, 2022

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2022-U078057

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT MWJHCS-2 T22A5728-0002	REGULATORY STANDARD	DETECTION LIMIT
NICKEL <sup>°</sup>	mg/L Ni	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.02	0.005
SELENIUM <sup>°</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	≤ 0.01	0.0005
ZINC <sup>°</sup>	mg/L Zn	IN-HOUSE METHOD: UAE-TP/GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 5.0	0.003
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>°</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>°</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>°</sup> : 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, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO 20 (B.E. 2543)  
ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535

ND : NON-DETECTABLE  
< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.002 AND < 0.025 mg/L, LEAD ≥ 0.003 AND < 0.100 mg/L)

LABORATORY SUPERVISOR

OCTOBER 5, 2022

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2/2

2022-U078059



# ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : MWJHC13-1 (UTM WGS 84 ZONE 47P 730360E 173209N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 11:20 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : SEPTEMBER 21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078033  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AS730-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT MWJHC13-1 T22AS730-0001	REGULATORY STANDARD	DETECTION LIMIT
pH <sup>°</sup>	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H <sup>+</sup> B)	8.5 (32°C)	-	-
ELECTRICAL CONDUCTIVITY <sup>°</sup>	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	220 (32°C)	-	0.1
CHLORIDE <sup>°</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM 4500-Cl <sup>-</sup> B)	ND	-	2.0
SULPHATE <sup>°</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	ND	-	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>°</sup>	mg/L	SOX-HLET EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
<b>METALS</b>					
ARSENIC <sup>°</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0004	≤ 0.01	0.0003
BARIUM <sup>°</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3120 B)	0.240	-	0.003
CADMIUM <sup>°</sup>	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.003	0.002
HEXAVALENT CHROMIUM <sup>°</sup>	mg/L Cr <sup>6+</sup>	COLORIMETRIC METHOD (SM 3500-Cr B)	ND	≤ 0.05	0.006
COPPER <sup>°</sup>	mg/L Cu	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 1.0	0.002
IRON <sup>°</sup>	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.917	-	0.005
LEAD <sup>°</sup>	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.01	0.003
MANGANESE <sup>°</sup>	mg/L Mn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 0.5	0.002
MERCURY <sup>°</sup>	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.001	0.0001

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1/2



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT MWJHC13-1 T22AS730-0001	REGULATORY STANDARD	DETECTION LIMIT
NICKEL <sup>°</sup>	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.02	0.005
SELENIUM <sup>°</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	≤ 0.01	0.0005
ZINC <sup>°</sup>	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 5.0	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

<sup>°</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>°</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>°</sup> : 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, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY : STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.20 (B.E. 2543)  
ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535.  
ND : NON-DETECTABLE  
< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.002 AND < 0.025 mg/L, MANGANESE ≥ 0.002 AND < 0.025 mg/L).

LABORATORY SUPERVISOR  
OCTOBER 5, 2022

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2022-U078033

# ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : MWJHC13-2 (UTM WGS 84 ZONE 47P 730393E 1731987N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 10:50 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : SEPTEMBER 21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078034  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AS730-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT MWJHC13-2 T22AS730-0002	REGULATORY STANDARD	DETECTION LIMIT
pH <sup>°</sup>	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H <sup>+</sup> B)	7.2 (29°C)	-	-
ELECTRICAL CONDUCTIVITY <sup>°</sup>	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	1529 (30°C)	-	0.1
CHLORIDE <sup>°</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM 4500-Cl <sup>-</sup> B)	5.9	-	2.0
SULPHATE <sup>°</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	2.2	-	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>°</sup>	mg/L	SOX-HLET EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
<b>METALS</b>					
ARSENIC <sup>°</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0005	≤ 0.01	0.0003
BARIUM <sup>°</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3120 B)	0.067	-	0.003
CADMIUM <sup>°</sup>	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.003	0.002
HEXAVALENT CHROMIUM <sup>°</sup>	mg/L Cr <sup>6+</sup>	COLORIMETRIC METHOD (SM 3500-Cr B)	ND	≤ 0.05	0.006
COPPER <sup>°</sup>	mg/L Cu	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 1.0	0.002
IRON <sup>°</sup>	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	-	0.005
LEAD <sup>°</sup>	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.01	0.003
MANGANESE <sup>°</sup>	mg/L Mn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.5	0.002
MERCURY <sup>°</sup>	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.001	0.0001

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT MWJHC13-2 T22AS730-0002	REGULATORY STANDARD	DETECTION LIMIT
NICKEL <sup>°</sup>	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.02	0.005
SELENIUM <sup>°</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	≤ 0.01	0.0005
ZINC <sup>°</sup>	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 5.0	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLORLESS/CLEAR -		

<sup>°</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>°</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>°</sup> : 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, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
REGULATORY : STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.20 (B.E. 2543)  
ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2535.  
ND : NON-DETECTABLE  
< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.002 AND < 0.025 mg/L, IRON ≥ 0.005 AND < 0.050 mg/L).

LABORATORY SUPERVISOR  
OCTOBER 5, 2022

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2022-U078034

## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK, BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@ecothai.net  
**SAMPLING SOURCE** : GW-M0017 (UTM WGS 84 ZONE 47P 731234E 1733016N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 10:20 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** :  
**ANALYZED BY** :

**RECEIVED DATE** : SEPTEMBER 21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078107  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22A5726-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT GW-M0017 T22A5726-0001	REGULATORY STANDARD	DETECTION LIMIT
pH	-	ELECTROMETRIC METHOD AT SITE (SM 4500-H B)	7.1 (3°C)	-	-
ELECTRICAL CONDUCTIVITY	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM 2510 B)	376 (3°C)	-	0.1
CHLORIDE	mg/L Cl	ARGENTOMETRIC METHOD (SM 4500-Cl B)	20.5	-	2.0
SULPHATE	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM 4500-SO <sub>4</sub> <sup>2-</sup> E)	3.8	-	0.3
TOTAL PETROLEUM HYDROCARBONS	mg/L	SOLVENT EXTRACTION METHOD (SM 5520 D AND 5520 F)	ND	-	3
METALS					
ARSENIC	mg/L As	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	0.0003	≤ 0.01	0.0003
BARIUM	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM 3030 F AND 3110 B)	0.018	-	0.003
CADMIUM	mg/L Cd	IN-HOUSE METHOD: UAE-TP-GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.003	0.002
HEXAVALENT CHROMIUM	mg/L Cr <sup>6+</sup>	COLOURIMETRIC METHOD (SM 3500-Cr B)	ND	≤ 0.05	0.006
COPPER	mg/L Cu	IN-HOUSE METHOD: UAE-TP-GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 1.0	0.002
IRON	mg/L Fe	IN-HOUSE METHOD: UAE-TP-GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	0.118	-	0.005
LEAD	mg/L Pb	IN-HOUSE METHOD: UAE-TP-GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.01	0.003
MANGANESE	mg/L Mn	IN-HOUSE METHOD: UAE-TP-GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	< LOQ	≤ 0.5	0.002
MERCURY	mg/L Hg	IN-HOUSE METHOD: UAE-TP-HM-002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM 3112 B	ND	≤ 0.001	0.0001

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT GW-M0017 T22A5726-0001	REGULATORY STANDARD	DETECTION LIMIT
NICKEL	mg/L Ni	IN-HOUSE METHOD: UAE-TP-GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 0.02	0.005
SELENIUM	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM 3114 C)	ND	≤ 0.01	0.0005
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE-TP-GW-01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM 3030 E AND 3111 B	ND	≤ 5.0	0.003
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR		

\* : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
\* : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
\* : 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, 23<sup>RD</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>RD</sup> EDITION, 2017.  
REGULATORY STANDARD : GROUNDWATER QUALITY STANDARDS, NOTIFICATION OF THE NATIONAL ENVIRONMENT BOARD NO.20 (B.E. 2543)  
ISSUED UNDER THE ENHANCEMENT AND CONSERVATION OF NATIONAL ENVIRONMENTAL QUALITY ACT B.E. 2536.  
ND : NON-DETECTABLE.  
< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.002 AND < 0.025 mg/L, MANGANESE ≥ 0.002 AND < 0.025 mg/L).

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OCTOBER 5, 2022

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2022-U078107



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## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@eco thai.net  
**SAMPLING SOURCE** : JHC-R1 (UTM WGS 84 ZONE 47P 730562E 1732064N)  
**SAMPLE TYPE** : RAIN WATER  
**SAMPLING DATE** : SEPTEMBER 21, 2022  
**SAMPLING TIME** : 13:10 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : [REDACTED]  
**ANALYZED BY** : [REDACTED]

**RECEIVED DATE** : SEPTEMBER 22, 2022  
**ANALYTICAL DATE** : SEPTEMBER 22 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U077922  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AS815-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			JHC-R1 T22AS815-0001	
pH	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.4 (29°C)	-
TURBIDITY	NTU	NEPHELOMETRIC METHOD (SM: 2130 B)	1.7	0.1
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	ND	25
CHLORIDE	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: 4500-Cl <sup>-</sup> B)	ND	2.0
NITRATE	mg/L NO <sub>3</sub> <sup>-</sup>	CADMIUM REDUCTION METHOD (SM: 4500-NO <sub>3</sub> <sup>-</sup> E)	0.44	0.09
SULPHATE	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: 4500-SO <sub>4</sub> <sup>2-</sup> E)	1.1	0.3
<b>METALS</b>				
ARSENIC	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0003
CADMIUM	mg/L Cd	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: 3030 E AND 3111 B)	ND	0.002
LEAD	mg/L Pb	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: 3030 E AND 3111 B)	ND	0.003
MERCURY	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: 3112 B	ND	0.0001
SELENIUM	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR -	

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

OCTOBER 4, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : ECO ORIENT RESOURCES (THAILAND) LTD.  
**ADDRESS** : 555 RASA TOWER II, 12TH FLOOR, UNIT 1203 PHAHOLYOTHIN ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1124-9 e-mail : anucha@eco-thai.net  
**SAMPLING SOURCE** : JHC-R2 (UTM WGS 84 ZONE 47P 728985E 1731948N)  
**SAMPLE TYPE** : RAIN WATER  
**SAMPLING DATE** : SEPTEMBER 21, 2022  
**SAMPLING TIME** : 13:50 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** :  
**ANALYZED BY** :  
**RECEIVED DATE** : SEPTEMBER 22, 2022  
**ANALYTICAL DATE** : SEPTEMBER 22 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U077923  
**WORK NO.** : 2022-006609  
**ANALYSIS NO.** : T22AS815-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			JHC-R2 T22AS815-0002	
pH	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.8 (29°C)	-
TURBIDITY	NTU	NEPHELOMETRIC METHOD (SM: 2130 B)	1.3	0.1
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	ND	25
CHLORIDE	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: 4500-Cl <sup>-</sup> B)	ND	2.0
NITRATE	mg/L NO <sub>3</sub> <sup>-</sup>	CADMIUM REDUCTION METHOD (SM: 4500-NO <sub>3</sub> <sup>-</sup> E)	0.31	0.09
SULPHATE	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: 4500-SO <sub>4</sub> <sup>2-</sup> E)	ND	0.3
<b>METALS</b>				
ARSENIC	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0003
CADMIUM	mg/L Cd	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: 3030 E AND 3111 B)	ND	0.002
LEAD	mg/L Pb	NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD (SM: 3030 E AND 3111 B)	ND	0.003
MERCURY	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: 3112 B	ND	0.0001
SELENIUM	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR -	

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23<sup>rd</sup> EDITION, 2017.  
ND : NON-DETECTABLE.

LABORATORY SUPERVISOR

OCTOBER 4, 2022



ภาคผนวก ฎ  
เอกสารสอบเทียบเครื่องมือ

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## List of Instruments Certification for Air & Noise Quality Analysis

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration	Remark
<b>Ambient</b>									
1	Orifice Transfer Standard Calibrator	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM <sub>10</sub> )	Thermo Scientific	G25A 1270	Tisch Environmental, Inc.	28062021	28 Jun 21	27 Jun 23	-
2	U-Tube Manometer	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM <sub>10</sub> )	Dwyer	1221-36-W/M -	Technology Promotion Association (Thailand-Japan)	22P802	12 Mar 22	11 Mar 23	-
3	Mass Flow Meter	BTEXs	Alicat Scientific, Inc.	MB-5SCCM-D/5M 57730	Miracle International Technology Co., Ltd.	L202210260-001	5 Nov 22	4 Nov 23	-
4	Aneroid Barometer	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM <sub>10</sub> ) BTEXs	Barigo, Germany	-	Technology Promotion Association (Thailand-Japan)	22P2722	22 Jul 22	21 Jul 23	-
5	Dial Thermo-Hygrometer	Total Suspended Particulate (TSP) Particulate Matter < 10 µm (PM <sub>10</sub> ) BTEXs	Barigo, Germany	-	Technology Promotion Association (Thailand-Japan)	22H1583	27 Jul 22	26 Jul 23	-
6	Nitrogen Dioxide Analyzer	Nitrogen Dioxide	Thermo Electron	42C 0517512001	UAE Consultant Co., Ltd.	07042022	7 Apr 22	6 Apr 23	-
7	Nitrogen Dioxide Analyzer	Nitrogen Dioxide	Thermo Scientific	42i CM08130002	UAE Consultant Co., Ltd.	07042022	7 Apr 22	6 Apr 23	-
8	Nitrogen Dioxide Analyzer	Nitrogen Dioxide	Thermo Environmental Instrument	42C 42C-67174-356	UAE Consultant Co., Ltd.	19042022	19 Apr 22	18 Apr 23	-
9	Standard Gases (Mixture)	Nitrogen Dioxide	Airgas	EB0143262 2015PSIG	Airgas an Air Liquide company	E04NI99E15A01D3	21 Jun 21	21 Jun 24	-
10	Sulphur Dioxide Analyzer	Sulphur Dioxide	Thermo Scientific	43i 1200906874	UAE Consultant Co., Ltd.	08042022	8 Apr 22	7 Apr 23	-
11	Sulphur Dioxide Analyzer	Sulphur Dioxide	Thermo Scientific	43i 1200906876	UAE Consultant Co., Ltd.	03042022	3 May 22	2 May 23	-

## List of Instruments Certification for Air & Noise Quality Analysis

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration	Remark
<b>Ambient</b>									
12	Sulphur Dioxide Analyzer	Sulphur Dioxide	Thermo Scientific	43i 1201778111	UAE Consultant Co.,Ltd.	03042022	3 May 22	2 May 23	-
13	Standard Gases (Mixture)	Sulphur Dioxide	Airgas	EB0143262 2015PSIG	Airgas an Air Liquide company	E04NI99E15A01D3	21 Jun 21	21 Jun 24	-
14	Carbon Monoxide Analyzer	Carbon Monoxide	Thermo	48i 1180540069	UAE Consultant Co.,Ltd.	29042022	29 Apr 22	28 Apr 23	-
15	Carbon Monoxide Analyzer	Carbon Monoxide	Thermo	48i 1180540074	UAE Consultant Co.,Ltd.	26042022	26 Apr 22	25 Apr 23	-
16	Carbon Monoxide Analyzer	Carbon Monoxide	Horiba	APMA-370 YN43AG7T	UAE Consultant Co.,Ltd.	26042022	26 Apr 22	25 Apr 23	-
17	Standard Gases (Mixture)	Carbon Monoxide	Airgas	EB0143262 2015PSIG	Airgas an Air Liquide company	E04NI99E15A01D3	21 Jun 21	21 Jun 24	-
18	Wind Speed/Wind Direction	WS/WD	LSI LASTEM	E-LOG305 20040002	Thai Meteorological Department	275/22	2 Aug 22	1 Aug 23	-
19	Wind Speed/Wind Direction	WS/WD	LSI LASTEM	E-LOG305 20040005	Thai Meteorological Department	259/22	12 Jul 22	11 Jul 23	-
20	Wind Speed/Wind Direction	WS/WD	LSI LASTEM	E-LOG305 20080022	Thai Meteorological Department	262/22	12 Jul 22	11 Jul 23	-
21	Sound Level Calibrator (Acoustic Calibrator)	Calibrate Sound Level Meter	Svantek	SV35 44783	Innovative Instrument Co.,Ltd.	22-ACT-524	19 Aug 22	18 Aug 23	-
22	Sound Level Meter	$L_{Aeq, 24\text{ hr}}$ , $L_{Amax}$ , $L_{A90}$ , $L_{Adn}$	Larson Davis	LxT2 0005394	Innovative Instrument Co.,Ltd.	22-ACT-034	21 Jan 22	20 Jan 23	-
23	Sound Level Meter	$L_{Aeq, 24\text{ hr}}$ , $L_{Amax}$ , $L_{A90}$ , $L_{Adn}$		LxT2 0005395	Innovative Instrument Co.,Ltd.	22-ACT-247	1 Apr 22	31 Mar 23	-



## List of Instruments Certification for Air & Noise Quality Analysis

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration	Remark
Ambient									
24	Sound Level Meter	L <sub>Aeq</sub> 24 hr*, L <sub>Amax</sub> *, L <sub>A90</sub> *, L <sub>Adn</sub>	Larson Davis	LxT2	Innovative Instrument Co.,Ltd.	22-ACT-105	11 Feb 22	10 Feb 23	-
				0005396					

### List of Instruments Certification for Water Quality Analysis

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration	Remark
Water									
1	pH Meter	pH	Horiba	LAQUA-PH210 HA0C0025	Technology Promotion Association (Thailand-Japan)	22CH639	11 May 22	10 May 23	-
2	DO Meter	DO	YSI	Pro 20i 18H110457	Technology Promotion Association (Thailand-Japan)	22TW167	26 Jul 22	25 Jul 23	-
3	Conductivity Meter	Conductivity	YSI	Pro30 17B101802	Technology Promotion Association (Thailand-Japan)	22CH996	26 Jul 22	25 Jul 23	-



ใบรับรองสอบเทียบเครื่องมือประจำห้องปฏิบัติการ สำหรับตรวจวัดคุณภาพสิ่งแวดล้อม

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration*	Remark
เครื่องมือประจำห้องปฏิบัติการวิเคราะห์ สำหรับวิเคราะห์คุณภาพอากาศในบรรยากาศโดยทั่วไป									
1	Analytical Balance (Readability 0.1 mg)	ฝุ่นละอองรวม (TSP) ฝุ่นละอองขนาดไม่เกิน 10 ไมครอน (PM-10)	Mettler-Toledo	AB204-S / 1128312528	Mettler-Toledo (Thailand) Ltd.	TH2058-097-040722- ACC-TH	7 Apr 22	6 Apr 23	-
2	Analytical Balance (Readability 0.1 mg)		Mettler-Toledo	AB204-S/FACT / 8108115858	Mettler-Toledo (Thailand) Ltd.	TH2058-098-040722- ACC-TH	7 Apr 22	6 Apr 23	-
3	Gas Chromatography - Mass Spectrometer (GC-MS)	สารกลุ่ม BTEX เบนซีน (Benzene), โทลูอิน (Toluene), เอทิลเบนซีน (Ethylbenzene), ไซลีนทั้งหมด (Total Xylene)	Bruker Scion	451-GC / BR1201M099 Scion-SQ / GQS1203F02 CP8400 / BR1203M331	World Tech Enterprise Co.,Ltd.	Certificate of Calibration PM/OQ	19 Apr 22	18 Apr 23	-
เครื่องมือประจำห้องปฏิบัติการวิเคราะห์ สำหรับวิเคราะห์คุณภาพน้ำ									
4	Inductively Coupled Plasma- Optical Emission Spectrometer (ICP-OES)	กลุ่มโลหะหนัก : ตะกั่ว (Pb), นิกเกิล (Ni), แบเรียม (Ba), ปรอท (Hg), โครเมียม (Cr), ซีลีเนียม (Se),	Agilent Technologies	System ID:G8015A G8015AA / MY18030001	Agilent Technologies (Thailand) Co.,Ltd.	Preventive Maintenance Checklist	30 Nov 22	29 Nov 23	-
5	Atomic Absorption Spectrometer (AAS)	ทองแดง (Cu),แมงกานีส (Mn),สังกะสี (Zn), เหล็ก (Fe), สารหนู (As), แคดเมียม (Cd), โครเมียมเฮกซะวาเลนต์ (Cr6+)	Agilent Technologies	System ID:G8432A AA240FS / MY13160001	Thailand Institute Of Science And Technological Research (TISTR)	MTC.ACL. No. 486/65	7 Mar 22	6 Mar 23	-
6	Conductivity Meter	การนำไฟฟ้า(EC)	SI Analytics	Lab955 / 16300356	SPC Calibration Center Co.,Ltd.	C24220084	22 Mar 22	21 Mar 23	-
7	pH Meter	ค่าความเป็นกรด-ด่าง (pH) อุณหภูมิ (Temperature)	Mettler-Toledo	Seven Easy S20 / 1231155210	National Food Institute, Ministry of Industry, Thailand	2201793-001-01	1 Mar 22	28 Feb 23	-
8	pH Meter		Hanna Instrument	HI2211 / 8165345	National Food Institute, Ministry of Industry, Thailand	2202097-001-01	16 Mar 22	15 Mar 23	-

ใบรับรองสอบเทียบเครื่องมือประจำห้องปฏิบัติการ สำหรับตรวจวัดคุณภาพสิ่งแวดล้อม

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration*	Remark
เครื่องมือประจำห้องปฏิบัติการวิเคราะห์ สำหรับวิเคราะห์คุณภาพน้ำ									
9	Analytical Balance (Repeatability 0.1 mg)	ปิโตรเลียมไฮโดรคาร์บอนทั้งหมด (TPH)	Mettler-Toledo	AB-2045/FACT / 1129361010	National Food Institute, Ministry of Industry, Thailand	2203120-001-01	1 Jun 22	31 May 23	-
10	Analytical Balance (Repeatability 0.01 mg)	ของแข็งแขวนลอยทั้งหมด (Total Suspended Solids ,SS)	Mettler-Toledo	XSR205DU / C009071872	Technology Promotion Association (Thailand-Japan)	22MM210	26 Apr 22	25 Apr 23	-
11	Hot Air Oven		Memmert	UF55 / B216.1666	Technology Promotion Association (Thailand-Japan)	22TM1490	19 Oct 22	18 Oct 23	-
12	UV-VIS Spectrophotometer	ซัลเฟต ( $\text{SO}_4^{2-}$ ) โครเมียมชนิดเฮกซะวาเลนต์ ( $\text{Cr}^{6+}$ )	Agilent Technologies	Cary60 G6860A / MY15410009	DQE Services Co.,Ltd.	SP22-016	31 May 22	30 May 23	-
13	UV-VIS Spectrophotometer		Hitachi	U-1900 / 2021-064	DQE Services Co.,Ltd.	SP23-007	6 Jan 23	5 Jan 24	-
14	UV-VIS Spectrophotometer		Hitachi	U-2900 / 21E22-009	DQE Services Co.,Ltd.	SP23-008	6 Jan 23	5 Jan 24	-
15	Incubator	แบคทีเรียกลุ่มฟีคัลโคลิฟอร์ม (Fecal Coliform Bacteria)	Memmert	IPP 260 / V615.0187	Technology Promotion Association (Thailand-Japan)	22TM563	7 Apr 22	6 Apr 23	-
16	Incubator		Memmert	IPP 260 / V616.0066	Technology Promotion Association (Thailand-Japan)	22TM672	5 May 22	4 May 23	-
17	Water Bath		Memmert	WNE 14 / L416.0606	Technology Promotion Association (Thailand-Japan)	22TM333	17 Feb 22	16 Feb 23	-



ใบรับรองสอบเทียบเครื่องมือประจำห้องปฏิบัติการ สำหรับตรวจวัดคุณภาพสิ่งแวดล้อม

No.	Instrument/Equipment	Parameter	Manufacturer	Model/Serial No.	Calibrator	Certification No.	Date of Calibration	Due date of Calibration*	Remark
เครื่องมือประจำห้องปฏิบัติการวิเคราะห์ สำหรับวิเคราะห์คุณภาพน้ำ									
18	Water Bath		Memmert	WNE 14 / L416.0612	Technology Promotion Association (Thailand-Japan)	22TM334	17 Feb 22	16 Feb 23	-
19	Analytical Balance		Mettler-Toledo	MS6035 / B0070110311	Mettler-Toledo (Thailand) Ltd.	H2058-096-040722-ACC-T	7 Apr 22	6 Apr 23	-
20	Auto Clave		ALP	CL-40L / 808763	Technology Promotion Association (Thailand-Japan)	22TM681	27 May 22	26 May 23	-

Due Date of Calibration\* : กำหนดตามแผนการสอบเทียบประจำปี อย่างน้อยปีละ 1 ครั้ง

Gas Chromatography - Mass Spectrometer (GC-MS)	<u>สารกลุ่ม BTEX</u> เบนซีน (Benzene), โทลูอีน (Toluene), เอทิลเบนซีน (Ethylbenzene), ไซลีนทั้งหมด (Total Xylene)	Bruker Scion	451-GC / BR1201M099 Scion-SQ / GQS1203F02 CP8400 / BR1203M331	World Tech Enterprise Co.,Ltd.	Certificate of Calibration PM/OQ	19 May 22	18 May 23	-
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