

ภาคผนวก ญ  
ใบรายงานผลการวิเคราะห์

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## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakajpruek@poesiam.com  
**SAMPLING SOURCE** : L53 - AIR3 (UTM WGS 84 ZONE 47P 590740 1556066)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARI TUMSA-AT  
**RECEIVED DATE** : SEPTEMBER 23, 2022  
**ANALYTICAL DATE** : SEPTEMBER 23-27, 2022  
**REPORT NO.** : 2022-U076552  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS906-0001 - T22AS906-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			L53 - AIR3		
			*	**	***
			T22AS906-0001	T22AS906-0002	T22AS906-0003
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.036	0.031	0.027
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.025	0.018	0.017
SAMPLE CONDITION			COMPLETE	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.  
\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 18, 2022 TO 08:30 HOUR ON SEPTEMBER 19, 2022.  
\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 19, 2022 TO 08:30 HOUR ON SEPTEMBER 20, 2022.  
\* : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 20, 2022 TO 08:30 HOUR ON SEPTEMBER 21, 2022.

*Budsakorn* ✓  
(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

SEPTEMBER 30, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakajpruek@poesiam.com  
**SAMPLING SOURCE** : L53 - AIR5 (UTM WGS 84 ZONE 47P 589620 1554485)  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARI TUMSA-AT  
**RECEIVED DATE** : SEPTEMBER 23, 2022  
**ANALYTICAL DATE** : SEPTEMBER 23-27, 2022  
**REPORT NO.** : 2022-U076554  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS906-0004 - T22AS906-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			L53 - AIR5		
			*	**	***
			T22AS906-0004	T22AS906-0005	T22AS906-0006
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.043	0.038	0.032
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.022	0.014	0.015
SAMPLE CONDITION			COMPLETE	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.  
\* : SAMPLING FROM 09:00 HOUR ON SEPTEMBER 18, 2022 TO 09:00 HOUR ON SEPTEMBER 19, 2022.  
\* : SAMPLING FROM 09:00 HOUR ON SEPTEMBER 19, 2022 TO 09:00 HOUR ON SEPTEMBER 20, 2022.  
\* : SAMPLING FROM 09:00 HOUR ON SEPTEMBER 20, 2022 TO 09:00 HOUR ON SEPTEMBER 21, 2022.

*Budsakorn* ✓  
(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

SEPTEMBER 30, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruek@poesiam.com  
**MEASURING PLACE** : L53-AIR3 (UTM WGS 84 ZONE 47P 590740 1556066)  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : SEPTEMBER 18-21, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : CHEMILUMINESCENCE  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : SEPTEMBER 18-21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 18-21, 2022  
**REPORT NO.** : 2022-U077022  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS906-0001 - T22AS906-0003

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	L53-AIR3 (UTM WGS 84 ZONE 47P 590740 1556066)		
	SEPTEMBER 18-19, 2022 T22AS906-0001	SEPTEMBER 19-20, 2022 T22AS906-0002	SEPTEMBER 20-21, 2022 T22AS906-0003
08:00-09:00 HOUR	0.0075	0.0094	0.0079
09:00-10:00 HOUR	0.0085	0.0093	0.0083
10:00-11:00 HOUR	0.0101	0.0098	0.0083
11:00-12:00 HOUR	0.0093	0.0073	0.0094
12:00-13:00 HOUR	0.0072	0.0082	0.0081
13:00-14:00 HOUR	0.0092	0.0096	0.0094
14:00-15:00 HOUR	0.0086	0.0091	0.0100
15:00-16:00 HOUR	0.0094	0.0087	0.0102
16:00-17:00 HOUR	0.0076	0.0091	0.0097
17:00-18:00 HOUR	0.0096	0.0087	0.0092
18:00-19:00 HOUR	0.0097	0.0091	0.0101
19:00-20:00 HOUR	0.0082	0.0084	0.0080
20:00-21:00 HOUR	0.0078	0.0076	0.0073
21:00-22:00 HOUR	0.0065	0.0067	0.0070
22:00-23:00 HOUR	0.0055	0.0069	0.0060
23:00-00:00 HOUR	0.0058	0.0043	0.0049
00:00-01:00 HOUR	0.0058	0.0051	0.0054
01:00-02:00 HOUR	0.0066	0.0052	0.0055
02:00-03:00 HOUR	0.0057	0.0058	0.0064
03:00-04:00 HOUR	0.0045	0.0058	0.0059
04:00-05:00 HOUR	0.0064	0.0049	0.0068
05:00-06:00 HOUR	0.0060	0.0047	0.0076
06:00-07:00 HOUR	0.0070	0.0059	0.0085
07:00-08:00 HOUR	0.0078	0.0066	0.0095

  
(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

SEPTEMBER 30, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruek@poesiam.com  
**MEASURING PLACE** : L53-AIR5 (UTM WGS 84 ZONE 47P 589620 1554485)  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : SEPTEMBER 18-21, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : CHEMILUMINESCENCE  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : SEPTEMBER 18-21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 18-21, 2022  
**REPORT NO.** : 2022-U077023  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS906-0004 - T22AS906-0006

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	L53-AIR5 (UTM WGS 84 ZONE 47P 589620 1554485)		
	SEPTEMBER 18-19, 2022 T22AS906-0004	SEPTEMBER 19-20, 2022 T22AS906-0005	SEPTEMBER 20-21, 2022 T22AS906-0006
08:00-09:00 HOUR	0.0072	0.0073	0.0062
09:00-10:00 HOUR	0.0075	0.0079	0.0069
10:00-11:00 HOUR	0.0063	0.0079	0.0076
11:00-12:00 HOUR	0.0063	0.0088	0.0057
12:00-13:00 HOUR	0.0070	0.0075	0.0072
13:00-14:00 HOUR	0.0079	0.0081	0.0067
14:00-15:00 HOUR	0.0074	0.0081	0.0064
15:00-16:00 HOUR	0.0077	0.0092	0.0076
16:00-17:00 HOUR	0.0079	0.0080	0.0085
17:00-18:00 HOUR	0.0080	0.0091	0.0091
18:00-19:00 HOUR	0.0077	0.0056	0.0079
19:00-20:00 HOUR	0.0071	0.0053	0.0049
20:00-21:00 HOUR	0.0077	0.0066	0.0070
21:00-22:00 HOUR	0.0089	0.0062	0.0089
22:00-23:00 HOUR	0.0068	0.0062	0.0067
23:00-00:00 HOUR	0.0063	0.0067	0.0067
00:00-01:00 HOUR	0.0066	0.0068	0.0053
01:00-02:00 HOUR	0.0060	0.0060	0.0055
02:00-03:00 HOUR	0.0059	0.0057	0.0069
03:00-04:00 HOUR	0.0060	0.0061	0.0082
04:00-05:00 HOUR	0.0052	0.0056	0.0080
05:00-06:00 HOUR	0.0056	0.0064	0.0071
06:00-07:00 HOUR	0.0061	0.0074	0.0068
07:00-08:00 HOUR	0.0062	0.0058	0.0075

  
(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

SEPTEMBER 30, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruek@poesiam.com  
**MEASURING PLACE** : L53-AIR3 (UTM WGS 84 ZONE 47P 590740 1556066)  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : SEPTEMBER 18-21, 2022  
**MEASURING DATE** : SEPTEMBER 18-21, 2022 **ANALYTICAL DATE** : SEPTEMBER 18-21, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U077024  
**MEASURING METHOD** : UV FLUORESCENCE **WORK NO.** : 2022-006174  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T22AS906-0001 - T22AS906-0003

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	L53-AIR3 (UTM WGS 84 ZONE 47P 590740 1556066)		
	SEPTEMBER 18-19, 2022 T22AS906-0001	SEPTEMBER 19-20, 2022 T22AS906-0002	SEPTEMBER 20-21, 2022 T22AS906-0003
08:00-09:00 HOUR	0.0023	0.0020	0.0023
09:00-10:00 HOUR	0.0021	0.0021	0.0021
10:00-11:00 HOUR	0.0022	0.0022	0.0021
11:00-12:00 HOUR	0.0021	0.0020	0.0022
12:00-13:00 HOUR	0.0021	0.0022	0.0021
13:00-14:00 HOUR	0.0020	0.0021	0.0022
14:00-15:00 HOUR	0.0022	0.0022	0.0021
15:00-16:00 HOUR	0.0020	0.0021	0.0021
16:00-17:00 HOUR	0.0021	0.0023	0.0021
17:00-18:00 HOUR	0.0021	0.0020	0.0021
18:00-19:00 HOUR	0.0023	0.0021	0.0020
19:00-20:00 HOUR	0.0022	0.0019	0.0020
20:00-21:00 HOUR	0.0023	0.0019	0.0017
21:00-22:00 HOUR	0.0020	0.0018	0.0016
22:00-23:00 HOUR	0.0019	0.0018	0.0019
23:00-00:00 HOUR	0.0019	0.0018	0.0018
00:00-01:00 HOUR	0.0016	0.0016	0.0015
01:00-02:00 HOUR	0.0020	0.0017	0.0017
02:00-03:00 HOUR	0.0017	0.0019	0.0016
03:00-04:00 HOUR	0.0017	0.0016	0.0018
04:00-05:00 HOUR	0.0018	0.0019	0.0020
05:00-06:00 HOUR	0.0019	0.0020	0.0020
06:00-07:00 HOUR	0.0021	0.0021	0.0021
07:00-08:00 HOUR	0.0022	0.0021	0.0024
AVERAGE 24 HOUR	0.0020	0.0020	0.0020

  
(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

SEPTEMBER 30, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruek@poesiam.com  
**MEASURING PLACE** : L53-AIR5 (UTM WGS 84 ZONE 47P 589620 1554485)  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : SEPTEMBER 18-21, 2022  
**MEASURING DATE** : SEPTEMBER 18-21, 2022 **ANALYTICAL DATE** : SEPTEMBER 18-21, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U077025  
**MEASURING METHOD** : UV FLUORESCENCE **WORK NO.** : 2022-006174  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T22AS906-0004 - T22AS906-0006

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	L53-AIR5 (UTM WGS 84 ZONE 47P 589620 1554485)		
	SEPTEMBER 18-19, 2022 T22AS906-0004	SEPTEMBER 19-20, 2022 T22AS906-0005	SEPTEMBER 20-21, 2022 T22AS906-0006
08:00-09:00 HOUR	0.0021	0.0020	0.0021
09:00-10:00 HOUR	0.0020	0.0020	0.0019
10:00-11:00 HOUR	0.0018	0.0020	0.0020
11:00-12:00 HOUR	0.0020	0.0022	0.0020
12:00-13:00 HOUR	0.0021	0.0019	0.0019
13:00-14:00 HOUR	0.0020	0.0020	0.0020
14:00-15:00 HOUR	0.0019	0.0020	0.0021
15:00-16:00 HOUR	0.0018	0.0019	0.0019
16:00-17:00 HOUR	0.0020	0.0018	0.0022
17:00-18:00 HOUR	0.0019	0.0019	0.0019
18:00-19:00 HOUR	0.0019	0.0019	0.0022
19:00-20:00 HOUR	0.0018	0.0019	0.0020
20:00-21:00 HOUR	0.0017	0.0020	0.0018
21:00-22:00 HOUR	0.0019	0.0021	0.0018
22:00-23:00 HOUR	0.0019	0.0021	0.0017
23:00-00:00 HOUR	0.0018	0.0020	0.0018
00:00-01:00 HOUR	0.0019	0.0019	0.0016
01:00-02:00 HOUR	0.0017	0.0021	0.0018
02:00-03:00 HOUR	0.0019	0.0020	0.0020
03:00-04:00 HOUR	0.0019	0.0021	0.0016
04:00-05:00 HOUR	0.0020	0.0019	0.0018
05:00-06:00 HOUR	0.0021	0.0021	0.0016
06:00-07:00 HOUR	0.0020	0.0021	0.0019
07:00-08:00 HOUR	0.0020	0.0021	0.0022
AVERAGE 24 HOUR	0.0019	0.0020	0.0019

  
(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

SEPTEMBER 30, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruek@poesiam.com  
**MEASURING PLACE** : L53-AIR3 (UTM WGS 84 ZONE 47P 590740 1556066)  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : SEPTEMBER 18-21, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : SEPTEMBER 18-21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 18-21, 2022  
**REPORT NO.** : 2022-U077027  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS906-0001 - T22AS906-0003

TIME *	RESULT (m/s)					
	L53-AIR3 (UTM WGS 84 ZONE 47P 590740 1556066)					
	SEPTEMBER 18-19, 2022 T22AS906-0001		SEPTEMBER 19-20, 2022 T22AS906-0002		SEPTEMBER 20-21, 2022 T22AS906-0003	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	1.2	W	1.0	WSW	1.0	SW
09:00-10:00 HOUR	1.6	W	2.2	WNW	1.5	WSW
10:00-11:00 HOUR	1.8	WNW	2.3	W	0.3	WSW
11:00-12:00 HOUR	1.0	NW	1.0	W	2.3	W
12:00-13:00 HOUR	0.6	NNW	1.7	WNW	1.7	SW
13:00-14:00 HOUR	0.3	NNW	1.3	SW	0.4	W
14:00-15:00 HOUR	1.3	NW	1.2	SSW	1.2	WNW
15:00-16:00 HOUR	1.8	NW	1.5	WSW	1.0	WSW
16:00-17:00 HOUR	1.2	NW	3.0	SW	0.5	W
17:00-18:00 HOUR	3.3	WNW	3.3	SW	2.0	W
18:00-19:00 HOUR	1.7	NW	2.4	WSW	3.3	WSW
19:00-20:00 HOUR	1.2	NW	1.3	WSW	3.2	W
20:00-21:00 HOUR	3.2	WNW	3.4	WNW	1.5	WSW
21:00-22:00 HOUR	2.3	WNW	2.8	WNW	2.6	W
22:00-23:00 HOUR	2.4	WNW	1.4	WNW	3.2	SW
23:00-00:00 HOUR	2.6	WSW	0.5	SW	2.1	W
00:00-01:00 HOUR	1.8	SW	1.4	SW	2.5	WSW
01:00-02:00 HOUR	3.4	W	1.6	WSW	2.0	WSW
02:00-03:00 HOUR	2.8	SW	3.2	WSW	2.2	W
03:00-04:00 HOUR	1.3	SW	2.8	WNW	1.7	W
04:00-05:00 HOUR	1.1	W	1.4	WNW	3.2	WNW
05:00-06:00 HOUR	2.1	W	1.7	WSW	2.3	SW
06:00-07:00 HOUR	1.1	WNW	2.8	WSW	2.2	W
07:00-08:00 HOUR	3.4	W	3.4	WSW	0.5	W

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

SEPTEMBER 30, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruek@poesiam.com  
**MEASURING PLACE** : L53-AIR5 (UTM WGS 84 ZONE 47P 589620 1554485)  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : SEPTEMBER 18-21, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : SEPTEMBER 18-21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 18-21, 2022  
**REPORT NO.** : 2022-U077029  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS906-0004 - T22AS906-0006

TIME *	RESULT (m/s)					
	L53-AIR5 (UTM WGS 84 ZONE 47P 589620 1554485)					
	SEPTEMBER 18-19, 2022 T22AS906-0004		SEPTEMBER 19-20, 2022 T22AS906-0005		SEPTEMBER 20-21, 2022 T22AS906-0006	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	0.5	WNW	3.4	WNW	3.0	W
09:00-10:00 HOUR	0.4	WSW	2.7	SW	0.7	WSW
10:00-11:00 HOUR	1.1	SW	1.3	WSW	0.5	WNW
11:00-12:00 HOUR	1.3	SW	1.1	WSW	1.8	W
12:00-13:00 HOUR	3.0	W	0.6	SSW	1.2	SW
13:00-14:00 HOUR	3.4	W	1.2	SW	1.1	SW
14:00-15:00 HOUR	3.4	SW	1.4	W	2.8	W
15:00-16:00 HOUR	3.1	SW	2.1	W	2.0	WSW
16:00-17:00 HOUR	2.9	SW	1.7	W	2.3	W
17:00-18:00 HOUR	3.0	W	0.9	WSW	2.3	WSW
18:00-19:00 HOUR	2.3	SW	0.5	WNW	2.5	WSW
19:00-20:00 HOUR	3.2	WNW	2.3	WSW	3.4	SW
20:00-21:00 HOUR	3.3	SW	0.6	W	0.6	SW
21:00-22:00 HOUR	2.4	WSW	1.5	SW	3.3	WSW
22:00-23:00 HOUR	1.0	SW	2.6	W	2.9	WNW
23:00-00:00 HOUR	0.6	WSW	1.2	W	2.4	W
00:00-01:00 HOUR	0.3	SW	0.8	SW	2.5	WNW
01:00-02:00 HOUR	2.0	WSW	1.3	SW	2.8	WNW
02:00-03:00 HOUR	1.5	WNW	0.4	WSW	1.9	W
03:00-04:00 HOUR	1.0	SW	3.1	WNW	2.6	WNW
04:00-05:00 HOUR	1.1	WNW	3.2	W	0.3	W
05:00-06:00 HOUR	1.2	W	3.4	SW	3.0	SW
06:00-07:00 HOUR	1.5	WSW	1.3	SW	2.3	W
07:00-08:00 HOUR	2.6	SW	2.7	WSW	0.8	WSW

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

SEPTEMBER 30, 2022



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## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakai@pruek@poesiam.com  
**MEASURING SOURCE** : L53-NOISE4 (UTM WGS 84 ZONE 47P 591842 1555360)  
**MEASURING TYPE** : AMBIENT (NOISE) **RECEIVED DATE** : SEPTEMBER 18-21, 2022  
**MEASURING DATE** : SEPTEMBER 18-21, 2022 **ANALYTICAL DATE** : SEPTEMBER 18-21, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U077020  
**MEASURING METHOD** : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2022-006174  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T22AS905-0001 - T22AS905-0003

TIME*	RESULT dB(A)		
	L53-NOISE4 (UTM WGS 84 ZONE 47P 591842 1555360)		
	SEPTEMBER 18-19, 2022		
	T22AS905-0001		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	50.0	76.0	36.6
08:00-09:00 HOUR	51.4	78.1	35.6
09:00-10:00 HOUR	50.9	78.3	33.4
10:00-11:00 HOUR	52.8	78.2	33.8
11:00-12:00 HOUR	52.1	81.5	37.6
12:00-13:00 HOUR	54.0	79.6	41.7
13:00-14:00 HOUR	54.2	85.5	44.3
14:00-15:00 HOUR	56.3	72.1	47.2
15:00-16:00 HOUR	56.0	71.2	38.6
16:00-17:00 HOUR	56.7	69.7	51.6
17:00-18:00 HOUR	56.2	62.4	56.3
18:00-19:00 HOUR	57.3	81.9	42.8
19:00-20:00 HOUR	56.3	85.4	55.2
20:00-21:00 HOUR	56.2	64.9	55.8
21:00-22:00 HOUR	50.0	67.0	45.4
22:00-23:00 HOUR	46.0	79.8	36.4
23:00-00:00 HOUR	46.2	71.1	37.4
00:00-01:00 HOUR	46.6	72.8	36.3
01:00-02:00 HOUR	47.0	74.6	34.7
02:00-03:00 HOUR	47.0	68.7	38.3
03:00-04:00 HOUR	46.7	72.3	43.6
04:00-05:00 HOUR	47.2	69.3	46.4
05:00-06:00 HOUR	46.9	77.9	44.0
06:00-07:00 HOUR	51.1	78.3	41.9
L <sub>Aeq</sub> 24 hours		53.1	
L <sub>Adn</sub>		56.0	

TIME*	RESULT dB(A)		
	L53-NOISE4 (UTM WGS 84 ZONE 47P 591842 1555360)		
	SEPTEMBER 19-20, 2022		
	T22AS905-0002		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	51.1	87.8	37.7
08:00-09:00 HOUR	48.9	72.3	36.2
09:00-10:00 HOUR	52.2	78.6	36.5
10:00-11:00 HOUR	54.0	82.8	38.5
11:00-12:00 HOUR	50.5	67.1	44.2
12:00-13:00 HOUR	52.1	72.2	44.3
13:00-14:00 HOUR	50.4	65.4	45.9
14:00-15:00 HOUR	51.4	71.0	45.4
15:00-16:00 HOUR	55.0	71.4	49.7
16:00-17:00 HOUR	50.4	72.2	44.0
17:00-18:00 HOUR	48.6	73.8	41.8
18:00-19:00 HOUR	55.7	86.0	42.5
19:00-20:00 HOUR	50.6	75.7	48.3
20:00-21:00 HOUR	51.5	70.3	47.9
21:00-22:00 HOUR	48.5	74.7	45.2
22:00-23:00 HOUR	46.3	70.4	44.3
23:00-00:00 HOUR	46.6	69.6	44.6
00:00-01:00 HOUR	46.4	70.7	46.2
01:00-02:00 HOUR	45.4	75.7	38.1
02:00-03:00 HOUR	46.2	69.8	39.4
03:00-04:00 HOUR	42.9	65.8	40.8
04:00-05:00 HOUR	42.9	64.6	40.2
05:00-06:00 HOUR	45.5	70.6	42.5
06:00-07:00 HOUR	49.6	78.7	42.3
L <sub>Aeq</sub> 24 hours		50.5	
L <sub>Adn</sub>		54.0	





TIME*	RESULT dB(A)		
	L53-NOISE4 (UTM WGS 84 ZONE 47P 591842 1555360)		
	SEPTEMBER 20-21, 2022		
	T22AS905-0003		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	49.1	73.2	38.2
08:00-09:00 HOUR	48.9	79.4	40.5
09:00-10:00 HOUR	50.6	69.9	45.7
10:00-11:00 HOUR	50.1	67.5	44.4
11:00-12:00 HOUR	49.0	66.6	43.1
12:00-13:00 HOUR	49.0	69.4	43.8
13:00-14:00 HOUR	48.6	67.2	44.3
14:00-15:00 HOUR	52.1	67.5	46.9
15:00-16:00 HOUR	51.5	69.2	46.0
16:00-17:00 HOUR	49.6	67.3	44.5
17:00-18:00 HOUR	49.5	74.0	43.0
18:00-19:00 HOUR	51.9	79.9	41.0
19:00-20:00 HOUR	49.6	61.7	49.1
20:00-21:00 HOUR	50.1	64.9	49.1
21:00-22:00 HOUR	53.8	77.1	52.3
22:00-23:00 HOUR	47.0	54.5	46.5
23:00-00:00 HOUR	46.4	60.3	45.8
00:00-01:00 HOUR	44.4	66.9	40.8
01:00-02:00 HOUR	44.9	61.0	37.3
02:00-03:00 HOUR	45.8	58.6	37.4
03:00-04:00 HOUR	44.3	68.4	41.0
04:00-05:00 HOUR	44.0	71.1	39.8
05:00-06:00 HOUR	46.0	72.2	42.0
06:00-07:00 HOUR	50.3	69.5	41.1
L <sub>Aeq</sub> 24 hours		49.4	
L <sub>Adn</sub>		53.7	

(MR. SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

SEPTEMBER 30, 2022

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- REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.

## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruek@poesiam.com  
**MEASURING PLACE** : L53-NOISE4 (UTM WGS 84 ZONE 47P 591830 1555340)  
**MEASURING TYPE** : AMBIENT (ANNOYANCE NOISE)  
**MEASURING DATE** : SEPTEMBER 18-21, 2022  
**MEASURING TIME** : \*  
**MEASURING EQUIPMENT** : INTEGRATED SOUND LEVEL METER AND CALCULATION  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : SEPTEMBER 18-21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 18-21, 2022  
**REPORT NO.** : 2022-U077018  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS905-0001 - T22AS905-0003

DATE	TIME*	RESULT (dB(A))				
		L53-NOISE4 (47P 591830 1555340, 47P 591842 1555360)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 18, 2022 T22AS905-0001	<b>DAY TIME</b> <sup>1/</sup>					
	07:00-08:00 HOUR	50.0 <sup>1/</sup>	50.0 **	43.0 <sup>1/</sup>	47.8 **	NOT SIGNIFICANT <sup>3/</sup>
	08:00-09:00 HOUR	51.4 <sup>1/</sup>	50.0 **	44.4 <sup>1/</sup>	47.8 **	NOT SIGNIFICANT <sup>3/</sup>
	09:00-10:00 HOUR	50.9 <sup>1/</sup>	50.0 **	43.9 <sup>1/</sup>	47.8 **	NOT SIGNIFICANT <sup>3/</sup>
	10:00-11:00 HOUR	52.8 <sup>1/</sup>	50.0 **	49.8 <sup>1/</sup>	47.8 **	2.0
	11:00-12:00 HOUR	52.1 <sup>1/</sup>	50.0 **	47.6 <sup>1/</sup>	47.8 **	NOT SIGNIFICANT <sup>3/</sup>
	12:00-13:00 HOUR	54.0 <sup>1/</sup>	50.0 **	52.0 <sup>1/</sup>	47.8 **	4.2
	13:00-14:00 HOUR	54.2 <sup>1/</sup>	50.0 **	52.2 <sup>1/</sup>	47.8 **	4.4
	14:00-15:00 HOUR	56.3 <sup>1/</sup>	50.0 **	54.8 <sup>1/</sup>	47.8 **	7.0
	15:00-16:00 HOUR	56.0 <sup>1/</sup>	50.0 **	54.5 <sup>1/</sup>	47.8 **	6.7
	16:00-17:00 HOUR	56.7 <sup>1/</sup>	50.0 **	55.7 <sup>1/</sup>	47.8 **	7.9
	17:00-18:00 HOUR	56.2 <sup>1/</sup>	50.0 **	54.7 <sup>1/</sup>	47.8 **	6.9
	18:00-19:00 HOUR	57.3 <sup>1/</sup>	50.0 **	56.3 <sup>1/</sup>	47.8 **	8.5
	19:00-20:00 HOUR	56.3 <sup>1/</sup>	50.0 **	54.8 <sup>1/</sup>	47.8 **	7.0
	20:00-21:00 HOUR	56.2 <sup>1/</sup>	50.0 **	54.7 <sup>1/</sup>	47.8 **	6.9
	21:00-22:00 HOUR	50.0 <sup>1/</sup>	50.0 **	43.0 <sup>1/</sup>	47.8 **	NOT SIGNIFICANT <sup>3/</sup>
	<b>NIGHT TIME</b> <sup>2/</sup>					
	22:00-22:05 HOUR	47.7 <sup>2/</sup>	43.2 ***	49.2 <sup>2/</sup>	41.7 ***	7.5
	22:05-22:10 HOUR	44.9 <sup>2/</sup>	43.2 ***	43.4 <sup>2/</sup>	41.7 ***	1.7
	22:10-22:15 HOUR	43.5 <sup>2/</sup>	43.2 ***	39.5 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	22:15-22:20 HOUR	45.4 <sup>2/</sup>	43.2 ***	43.9 <sup>2/</sup>	41.7 ***	2.2
	22:20-22:25 HOUR	45.9 <sup>2/</sup>	43.2 ***	45.9 <sup>2/</sup>	41.7 ***	4.2
	22:25-22:30 HOUR	46.0 <sup>2/</sup>	43.2 ***	46.0 <sup>2/</sup>	41.7 ***	4.3
	22:30-22:35 HOUR	45.7 <sup>2/</sup>	43.2 ***	45.7 <sup>2/</sup>	41.7 ***	4.0
	22:35-22:40 HOUR	43.4 <sup>2/</sup>	43.2 ***	39.4 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	22:40-22:45 HOUR	46.4 <sup>2/</sup>	43.2 ***	46.4 <sup>2/</sup>	41.7 ***	4.7
	22:45-22:50 HOUR	47.1 <sup>2/</sup>	43.2 ***	48.1 <sup>2/</sup>	41.7 ***	6.4
	22:50-22:55 HOUR	47.3 <sup>2/</sup>	43.2 ***	48.3 <sup>2/</sup>	41.7 ***	6.6
	22:55-23:00 HOUR	46.4 <sup>2/</sup>	43.2 ***	46.4 <sup>2/</sup>	41.7 ***	4.7
	23:00-23:05 HOUR	48.1 <sup>2/</sup>	43.2 ***	49.6 <sup>2/</sup>	41.7 ***	7.9
	23:05-23:10 HOUR	45.7 <sup>2/</sup>	43.2 ***	45.7 <sup>2/</sup>	41.7 ***	4.0
	23:10-23:15 HOUR	45.3 <sup>2/</sup>	43.2 ***	43.8 <sup>2/</sup>	41.7 ***	2.1
	23:15-23:20 HOUR	48.9 <sup>2/</sup>	43.2 ***	50.4 <sup>2/</sup>	41.7 ***	8.7
	23:20-23:25 HOUR	46.7 <sup>2/</sup>	43.2 ***	47.7 <sup>2/</sup>	41.7 ***	6.0
	23:25-23:30 HOUR	46.2 <sup>2/</sup>	43.2 ***	46.2 <sup>2/</sup>	41.7 ***	4.5

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DATE	TIME*	RESULT (dB(A))				
		L53-NOISE4 (47P 591830 1555340,47P 591842 1555360)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 18, 2022	NIGHT TIME <sup>2/</sup>					
T22AS905-0001	23:30-23:35 HOUR	44.5 <sup>2/</sup>	43.2 ***	40.5 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:35-23:40 HOUR	43.2 <sup>2/</sup>	43.2 ***	39.2 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:40-23:45 HOUR	45.7 <sup>2/</sup>	43.2 ***	45.7 <sup>2/</sup>	41.7 ***	4.0
	23:45-23:50 HOUR	45.7 <sup>2/</sup>	43.2 ***	45.7 <sup>2/</sup>	41.7 ***	4.0
	23:50-23:55 HOUR	43.2 <sup>2/</sup>	43.2 ***	39.2 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:55-00:00 HOUR	47.3 <sup>2/</sup>	43.2 ***	48.3 <sup>2/</sup>	41.7 ***	6.6
SEPTEMBER 19, 2022	NIGHT TIME <sup>2/</sup>					
T22AS905-0001	00:00-00:05 HOUR	43.4 <sup>2/</sup>	43.2 ***	39.4 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:05-00:10 HOUR	44.3 <sup>2/</sup>	43.2 ***	40.3 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:10-00:15 HOUR	47.8 <sup>2/</sup>	43.2 ***	49.3 <sup>2/</sup>	41.7 ***	7.6
	00:15-00:20 HOUR	48.9 <sup>2/</sup>	43.2 ***	50.4 <sup>2/</sup>	41.7 ***	8.7
	00:20-00:25 HOUR	45.8 <sup>2/</sup>	43.2 ***	45.8 <sup>2/</sup>	41.7 ***	4.1
	00:25-00:30 HOUR	46.6 <sup>2/</sup>	43.2 ***	46.6 <sup>2/</sup>	41.7 ***	4.9
	00:30-00:35 HOUR	45.0 <sup>2/</sup>	43.2 ***	43.5 <sup>2/</sup>	41.7 ***	1.8
	00:35-00:40 HOUR	45.5 <sup>2/</sup>	43.2 ***	44.0 <sup>2/</sup>	41.7 ***	2.3
	00:40-00:45 HOUR	47.0 <sup>2/</sup>	43.2 ***	48.0 <sup>2/</sup>	41.7 ***	6.3
	00:45-00:50 HOUR	45.9 <sup>2/</sup>	43.2 ***	45.9 <sup>2/</sup>	41.7 ***	4.2
	00:50-00:55 HOUR	48.1 <sup>2/</sup>	43.2 ***	49.6 <sup>2/</sup>	41.7 ***	7.9
	00:55-01:00 HOUR	47.2 <sup>2/</sup>	43.2 ***	48.2 <sup>2/</sup>	41.7 ***	6.5
	01:00-01:05 HOUR	44.4 <sup>2/</sup>	43.2 ***	40.4 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:05-01:10 HOUR	43.4 <sup>2/</sup>	43.2 ***	39.4 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:10-01:15 HOUR	47.9 <sup>2/</sup>	43.2 ***	49.4 <sup>2/</sup>	41.7 ***	7.7
	01:15-01:20 HOUR	44.6 <sup>2/</sup>	43.2 ***	40.6 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:20-01:25 HOUR	45.1 <sup>2/</sup>	43.2 ***	43.6 <sup>2/</sup>	41.7 ***	1.9
	01:25-01:30 HOUR	47.0 <sup>2/</sup>	43.2 ***	48.0 <sup>2/</sup>	41.7 ***	6.3
	01:30-01:35 HOUR	48.2 <sup>2/</sup>	43.2 ***	49.7 <sup>2/</sup>	41.7 ***	8.0
	01:35-01:40 HOUR	48.7 <sup>2/</sup>	43.2 ***	50.2 <sup>2/</sup>	41.7 ***	8.5
	01:40-01:45 HOUR	48.8 <sup>2/</sup>	43.2 ***	50.3 <sup>2/</sup>	41.7 ***	8.6
	01:45-01:50 HOUR	48.4 <sup>2/</sup>	43.2 ***	49.9 <sup>2/</sup>	41.7 ***	8.2
	01:50-01:55 HOUR	48.3 <sup>2/</sup>	43.2 ***	49.8 <sup>2/</sup>	41.7 ***	8.1
	01:55-02:00 HOUR	43.3 <sup>2/</sup>	43.2 ***	39.3 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:00-02:05 HOUR	48.8 <sup>2/</sup>	43.2 ***	50.3 <sup>2/</sup>	41.7 ***	8.6
	02:05-02:10 HOUR	47.6 <sup>2/</sup>	43.2 ***	48.6 <sup>2/</sup>	41.7 ***	6.9
	02:10-02:15 HOUR	47.5 <sup>2/</sup>	43.2 ***	48.5 <sup>2/</sup>	41.7 ***	6.8
	02:15-02:20 HOUR	46.6 <sup>2/</sup>	43.2 ***	46.6 <sup>2/</sup>	41.7 ***	4.9
	02:20-02:25 HOUR	46.5 <sup>2/</sup>	43.2 ***	46.5 <sup>2/</sup>	41.7 ***	4.8
	02:25-02:30 HOUR	43.7 <sup>2/</sup>	43.2 ***	39.7 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:30-02:35 HOUR	48.6 <sup>2/</sup>	43.2 ***	50.1 <sup>2/</sup>	41.7 ***	8.4
	02:35-02:40 HOUR	47.9 <sup>2/</sup>	43.2 ***	49.4 <sup>2/</sup>	41.7 ***	7.7
	02:40-02:45 HOUR	43.3 <sup>2/</sup>	43.2 ***	39.3 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:45-02:50 HOUR	47.0 <sup>2/</sup>	43.2 ***	48.0 <sup>2/</sup>	41.7 ***	6.3
	02:50-02:55 HOUR	47.8 <sup>2/</sup>	43.2 ***	49.3 <sup>2/</sup>	41.7 ***	7.6
	02:55-03:00 HOUR	45.9 <sup>2/</sup>	43.2 ***	45.9 <sup>2/</sup>	41.7 ***	4.2
	03:00-03:05 HOUR	47.2 <sup>2/</sup>	43.2 ***	48.2 <sup>2/</sup>	41.7 ***	6.5
	03:05-03:10 HOUR	46.1 <sup>2/</sup>	43.2 ***	46.1 <sup>2/</sup>	41.7 ***	4.4

DATE	TIME*	RESULT (dB(A))				
		L53-NOISE4 (47P 591830 1555340,47P 591842 1555360)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 19, 2022	NIGHT TIME <sup>2/</sup>					
T22AS905-0001	03:10-03:15 HOUR	46.3 <sup>2/</sup>	43.2 ***	46.3 <sup>2/</sup>	41.7 ***	4.6
	03:15-03:20 HOUR	44.0 <sup>2/</sup>	43.2 ***	40.0 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:20-03:25 HOUR	48.4 <sup>2/</sup>	43.2 ***	49.9 <sup>2/</sup>	41.7 ***	8.2
	03:25-03:30 HOUR	48.7 <sup>2/</sup>	43.2 ***	50.2 <sup>2/</sup>	41.7 ***	8.5
	03:30-03:35 HOUR	48.2 <sup>2/</sup>	43.2 ***	49.5 <sup>2/</sup>	41.7 ***	7.8
	03:35-03:40 HOUR	44.3 <sup>2/</sup>	43.2 ***	40.3 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:40-03:45 HOUR	48.6 <sup>2/</sup>	43.2 ***	50.1 <sup>2/</sup>	41.7 ***	8.4
	03:45-03:50 HOUR	44.8 <sup>2/</sup>	43.2 ***	43.3 <sup>2/</sup>	41.7 ***	1.6
	03:50-03:55 HOUR	45.0 <sup>2/</sup>	43.2 ***	43.5 <sup>2/</sup>	41.7 ***	1.8
	03:55-04:00 HOUR	45.1 <sup>2/</sup>	43.2 ***	43.6 <sup>2/</sup>	41.7 ***	1.9
	04:00-04:05 HOUR	44.8 <sup>2/</sup>	43.2 ***	43.3 <sup>2/</sup>	41.7 ***	1.6
	04:05-04:10 HOUR	44.5 <sup>2/</sup>	43.2 ***	40.5 <sup>2/</sup>	41.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:10-04:15 HOUR	45.1 <sup>2/</sup>	43.2 ***	43.6 <sup>2/</sup>	41.7 ***	1.9
	04:15-04:20 HOUR	47.3 <sup>2/</sup>	43.2 ***	48.3 <sup>2/</sup>	41.7 ***	6.6
	04:20-04:25 HOUR	47.2 <sup>2/</sup>	43.2 ***	48.2 <sup>2/</sup>	41.7 ***	6.5
	04:25-04:30 HOUR	47.9 <sup>2/</sup>	43.2 ***	49.4 <sup>2/</sup>	41.7 ***	7.7
	04:30-04:35 HOUR	47.6 <sup>2/</sup>	43.2 ***	48.6 <sup>2/</sup>	41.7 ***	6.9
	04:35-04:40 HOUR	47.7 <sup>2/</sup>	43.2 ***	49.2 <sup>2/</sup>	41.7 ***	7.5
	04:40-04:45 HOUR	47.6 <sup>2/</sup>	43.2 ***	48.6 <sup>2/</sup>	41.7 ***	6.9
	04:45-04:50 HOUR	48.0 <sup>2/</sup>	43.2 ***	49.5 <sup>2/</sup>	41.7 ***	7.8
	04:50-04:55 HOUR	48.2 <sup>2/</sup>	43.2 ***	49.7 <sup>2/</sup>	41.7 ***	8.0
	04:55-05:00 HOUR	48.4 <sup>2/</sup>	43.2 ***	49.9 <sup>2/</sup>	41.7 ***	8.2
	05:00-05:05 HOUR	47.2 <sup>2/</sup>	43.2 ***	48.2 <sup>2/</sup>	41.7 ***	6.5
	05:05-05:10 HOUR	48.5 <sup>2/</sup>	43.2 ***	50.0 <sup>2/</sup>	41.7 ***	8.3
	05:10-05:15 HOUR	45.5 <sup>2/</sup>	43.2 ***	44.0 <sup>2/</sup>	41.7 ***	2.3
	05:15-05:20 HOUR	46.5 <sup>2/</sup>	43.2 ***	46.5 <sup>2/</sup>	41.7 ***	4.8
	05:20-05:25 HOUR	46.0 <sup>2/</sup>	43.2 ***	46.0 <sup>2/</sup>	41.7 ***	4.3
	05:25-05:30 HOUR	45.9 <sup>2/</sup>	43.2 ***	45.9 <sup>2/</sup>	41.7 ***	4.2
	05:30-05:35 HOUR	46.0 <sup>2/</sup>	43.2 ***	46.0 <sup>2/</sup>	41.7 ***	4.3
	05:35-05:40 HOUR	45.9 <sup>2/</sup>	43.2 ***	45.9 <sup>2/</sup>	41.7 ***	4.2
	05:40-05:45 HOUR	46.0 <sup>2/</sup>	43.2 ***	46.0 <sup>2/</sup>	41.7 ***	4.3
	05:45-05:50 HOUR	48.3 <sup>2/</sup>	43.2 ***	49.8 <sup>2/</sup>	41.7 ***	8.1
	05:50-05:55 HOUR	48.3 <sup>2/</sup>	43.2 ***	49.8 <sup>2/</sup>	41.7 ***	8.1
	05:55-06:00 HOUR	46.9 <sup>2/</sup>	43.2 ***	47.9 <sup>2/</sup>	41.7 ***	6.2
	DAY TIME <sup>1/</sup>					
	06:00-07:00 HOUR	51.1 <sup>1/</sup>	50.0 **	44.1 <sup>1/</sup>	47.8 **	NOT SIGNIFICANT <sup>3/</sup>
SEPTEMBER 19, 2022	DAY TIME <sup>1/</sup>					
T22AS905-0002	07:00-08:00 HOUR	51.1 <sup>1/</sup>	48.5 **	48.1 <sup>1/</sup>	46.6 **	1.5
	08:00-09:00 HOUR	48.9 <sup>1/</sup>	48.5 **	41.9 <sup>1/</sup>	46.6 **	NOT SIGNIFICANT <sup>3/</sup>
	09:00-10:00 HOUR	52.2 <sup>1/</sup>	48.5 **	50.2 <sup>1/</sup>	46.6 **	3.6
	10:00-11:00 HOUR	54.0 <sup>1/</sup>	48.5 **	52.5 <sup>1/</sup>	46.6 **	5.9
	11:00-12:00 HOUR	50.5 <sup>1/</sup>	48.5 **	46.0 <sup>1/</sup>	46.6 **	NOT SIGNIFICANT <sup>3/</sup>
	12:00-13:00 HOUR	52.1 <sup>1/</sup>	48.5 **	50.1 <sup>1/</sup>	46.6 **	3.5
	13:00-14:00 HOUR	50.4 <sup>1/</sup>	48.5 **	45.9 <sup>1/</sup>	46.6 **	NOT SIGNIFICANT <sup>3/</sup>
	14:00-15:00 HOUR	51.4 <sup>1/</sup>	48.5 **	48.4 <sup>1/</sup>	46.6 **	1.8



DATE	TIME*	RESULT (dB(A))				
		L53-NOISE4 (47P 591830 1555340,47P 591842 1555360)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 19, 2022	<b>DAY TIME</b> <sup>1/</sup>					
T22AS905-0002	15:00-16:00 HOUR	55.0 <sup>1/</sup>	48.5 **	54.0 <sup>1/</sup>	46.6 **	7.4
	16:00-17:00 HOUR	50.4 <sup>1/</sup>	48.5 **	45.9 <sup>1/</sup>	46.6 **	NOT SIGNIFICANT <sup>3/</sup>
	17:00-18:00 HOUR	48.6 <sup>1/</sup>	48.5 **	41.6 <sup>1/</sup>	46.6 **	NOT SIGNIFICANT <sup>3/</sup>
	18:00-19:00 HOUR	55.7 <sup>1/</sup>	48.5 **	54.7 <sup>1/</sup>	46.6 **	8.1
	19:00-20:00 HOUR	50.6 <sup>1/</sup>	48.5 **	46.1 <sup>1/</sup>	46.6 **	NOT SIGNIFICANT <sup>3/</sup>
	20:00-21:00 HOUR	51.5 <sup>1/</sup>	48.5 **	48.5 <sup>1/</sup>	46.6 **	1.9
	21:00-22:00 HOUR	48.5 <sup>1/</sup>	48.5 **	41.5 <sup>1/</sup>	46.6 **	NOT SIGNIFICANT <sup>3/</sup>
	<b>NIGHT TIME</b> <sup>2/</sup>					
	22:00-22:05 HOUR	46.9 <sup>2/</sup>	42.0 ***	48.4 <sup>2/</sup>	40.6 ***	7.8
	22:05-22:10 HOUR	45.3 <sup>2/</sup>	42.0 ***	45.3 <sup>2/</sup>	40.6 ***	4.7
	22:10-22:15 HOUR	47.0 <sup>2/</sup>	42.0 ***	48.5 <sup>2/</sup>	40.6 ***	7.9
	22:15-22:20 HOUR	45.3 <sup>2/</sup>	42.0 ***	45.3 <sup>2/</sup>	40.6 ***	4.7
	22:20-22:25 HOUR	45.7 <sup>2/</sup>	42.0 ***	46.7 <sup>2/</sup>	40.6 ***	6.1
	22:25-22:30 HOUR	45.7 <sup>2/</sup>	42.0 ***	46.7 <sup>2/</sup>	40.6 ***	6.1
	22:30-22:35 HOUR	47.0 <sup>2/</sup>	42.0 ***	48.5 <sup>2/</sup>	40.6 ***	7.9
	22:35-22:40 HOUR	47.2 <sup>2/</sup>	42.0 ***	48.7 <sup>2/</sup>	40.6 ***	8.1
	22:40-22:45 HOUR	46.5 <sup>2/</sup>	42.0 ***	48.0 <sup>2/</sup>	40.6 ***	7.4
	22:45-22:50 HOUR	47.2 <sup>2/</sup>	42.0 ***	48.7 <sup>2/</sup>	40.6 ***	8.1
	22:50-22:55 HOUR	46.0 <sup>2/</sup>	42.0 ***	47.0 <sup>2/</sup>	40.6 ***	6.4
	22:55-23:00 HOUR	45.4 <sup>2/</sup>	42.0 ***	45.4 <sup>2/</sup>	40.6 ***	4.8
	23:00-23:05 HOUR	45.5 <sup>2/</sup>	42.0 ***	46.5 <sup>2/</sup>	40.6 ***	5.9
	23:05-23:10 HOUR	47.1 <sup>2/</sup>	42.0 ***	48.6 <sup>2/</sup>	40.6 ***	8.0
	23:10-23:15 HOUR	46.3 <sup>2/</sup>	42.0 ***	47.3 <sup>2/</sup>	40.6 ***	6.7
	23:15-23:20 HOUR	45.1 <sup>2/</sup>	42.0 ***	45.1 <sup>2/</sup>	40.6 ***	4.5
	23:20-23:25 HOUR	45.4 <sup>2/</sup>	42.0 ***	45.4 <sup>2/</sup>	40.6 ***	4.8
	23:25-23:30 HOUR	47.3 <sup>2/</sup>	42.0 ***	48.8 <sup>2/</sup>	40.6 ***	8.2
	23:30-23:35 HOUR	46.0 <sup>2/</sup>	42.0 ***	47.0 <sup>2/</sup>	40.6 ***	6.4
	23:35-23:40 HOUR	47.6 <sup>2/</sup>	42.0 ***	49.1 <sup>2/</sup>	40.6 ***	8.5
	23:40-23:45 HOUR	46.2 <sup>2/</sup>	42.0 ***	47.2 <sup>2/</sup>	40.6 ***	6.6
	23:45-23:50 HOUR	47.0 <sup>2/</sup>	42.0 ***	48.5 <sup>2/</sup>	40.6 ***	7.9
	23:50-23:55 HOUR	47.5 <sup>2/</sup>	42.0 ***	49.0 <sup>2/</sup>	40.6 ***	8.4
	23:55-00:00 HOUR	47.7 <sup>2/</sup>	42.0 ***	49.2 <sup>2/</sup>	40.6 ***	8.6
SEPTEMBER 20, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0002	00:00-00:05 HOUR	47.5 <sup>2/</sup>	42.0 ***	49.0 <sup>2/</sup>	40.6 ***	8.4
	00:05-00:10 HOUR	47.6 <sup>2/</sup>	42.0 ***	49.1 <sup>2/</sup>	40.6 ***	8.5
	00:10-00:15 HOUR	47.5 <sup>2/</sup>	42.0 ***	49.0 <sup>2/</sup>	40.6 ***	8.4
	00:15-00:20 HOUR	47.1 <sup>2/</sup>	42.0 ***	48.6 <sup>2/</sup>	40.6 ***	8.0
	00:20-00:25 HOUR	47.0 <sup>2/</sup>	42.0 ***	48.5 <sup>2/</sup>	40.6 ***	7.9
	00:25-00:30 HOUR	47.2 <sup>2/</sup>	42.0 ***	48.7 <sup>2/</sup>	40.6 ***	8.1
	00:30-00:35 HOUR	47.4 <sup>2/</sup>	42.0 ***	48.9 <sup>2/</sup>	40.6 ***	8.3
	00:35-00:40 HOUR	47.1 <sup>2/</sup>	42.0 ***	48.6 <sup>2/</sup>	40.6 ***	8.0
	00:40-00:45 HOUR	45.9 <sup>2/</sup>	42.0 ***	46.9 <sup>2/</sup>	40.6 ***	6.3
	00:45-00:50 HOUR	42.1 <sup>2/</sup>	42.0 ***	38.1 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:50-00:55 HOUR	42.0 <sup>2/</sup>	42.0 ***	38.0 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:55-01:00 HOUR	43.5 <sup>2/</sup>	42.0 ***	42.0 <sup>2/</sup>	40.6 ***	1.4

DATE	TIME*	RESULT (dB(A))				
		L53-NOISE4 (47P 591830 1555340,47P 591842 1555360)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 20, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0002	01:00-01:05 HOUR	47.2 <sup>2/</sup>	42.0 ***	48.7 <sup>2/</sup>	40.6 ***	8.1
	01:05-01:10 HOUR	47.0 <sup>2/</sup>	42.0 ***	48.5 <sup>2/</sup>	40.6 ***	7.9
	01:10-01:15 HOUR	44.9 <sup>2/</sup>	42.0 ***	44.9 <sup>2/</sup>	40.6 ***	4.3
	01:15-01:20 HOUR	44.6 <sup>2/</sup>	42.0 ***	44.6 <sup>2/</sup>	40.6 ***	4.0
	01:20-01:25 HOUR	44.2 <sup>2/</sup>	42.0 ***	42.7 <sup>2/</sup>	40.6 ***	2.1
	01:25-01:30 HOUR	45.0 <sup>2/</sup>	42.0 ***	45.0 <sup>2/</sup>	40.6 ***	4.4
	01:30-01:35 HOUR	44.7 <sup>2/</sup>	42.0 ***	44.7 <sup>2/</sup>	40.6 ***	4.1
	01:35-01:40 HOUR	43.0 <sup>2/</sup>	42.0 ***	39.0 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:40-01:45 HOUR	45.1 <sup>2/</sup>	42.0 ***	45.1 <sup>2/</sup>	40.6 ***	4.5
	01:45-01:50 HOUR	47.9 <sup>2/</sup>	42.0 ***	49.4 <sup>2/</sup>	40.6 ***	8.8
	01:50-01:55 HOUR	43.9 <sup>2/</sup>	42.0 ***	42.4 <sup>2/</sup>	40.6 ***	1.8
	01:55-02:00 HOUR	45.0 <sup>2/</sup>	42.0 ***	45.0 <sup>2/</sup>	40.6 ***	4.4
	02:00-02:05 HOUR	47.4 <sup>2/</sup>	42.0 ***	48.9 <sup>2/</sup>	40.6 ***	8.3
	02:05-02:10 HOUR	45.3 <sup>2/</sup>	42.0 ***	45.3 <sup>2/</sup>	40.6 ***	4.7
	02:10-02:15 HOUR	46.8 <sup>2/</sup>	42.0 ***	48.3 <sup>2/</sup>	40.6 ***	7.7
	02:15-02:20 HOUR	47.2 <sup>2/</sup>	42.0 ***	48.7 <sup>2/</sup>	40.6 ***	8.1
	02:20-02:25 HOUR	47.4 <sup>2/</sup>	42.0 ***	48.9 <sup>2/</sup>	40.6 ***	8.3
	02:25-02:30 HOUR	47.1 <sup>2/</sup>	42.0 ***	48.6 <sup>2/</sup>	40.6 ***	8.0
	02:30-02:35 HOUR	44.6 <sup>2/</sup>	42.0 ***	44.6 <sup>2/</sup>	40.6 ***	4.0
	02:35-02:40 HOUR	46.5 <sup>2/</sup>	42.0 ***	48.0 <sup>2/</sup>	40.6 ***	7.4
	02:40-02:45 HOUR	45.6 <sup>2/</sup>	42.0 ***	46.6 <sup>2/</sup>	40.6 ***	6.0
	02:45-02:50 HOUR	47.4 <sup>2/</sup>	42.0 ***	48.9 <sup>2/</sup>	40.6 ***	8.3
	02:50-02:55 HOUR	42.6 <sup>2/</sup>	42.0 ***	38.6 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:55-03:00 HOUR	42.5 <sup>2/</sup>	42.0 ***	38.5 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:00-03:05 HOUR	42.4 <sup>2/</sup>	42.0 ***	38.4 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:05-03:10 HOUR	43.2 <sup>2/</sup>	42.0 ***	39.2 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:10-03:15 HOUR	42.9 <sup>2/</sup>	42.0 ***	38.9 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:15-03:20 HOUR	42.7 <sup>2/</sup>	42.0 ***	38.7 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:20-03:25 HOUR	42.5 <sup>2/</sup>	42.0 ***	38.5 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:25-03:30 HOUR	44.1 <sup>2/</sup>	42.0 ***	42.6 <sup>2/</sup>	40.6 ***	2.0
	03:30-03:35 HOUR	42.7 <sup>2/</sup>	42.0 ***	38.7 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:35-03:40 HOUR	42.8 <sup>2/</sup>	42.0 ***	38.8 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:40-03:45 HOUR	43.6 <sup>2/</sup>	42.0 ***	42.1 <sup>2/</sup>	40.6 ***	1.5
	03:45-03:50 HOUR	42.5 <sup>2/</sup>	42.0 ***	38.5 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:50-03:55 HOUR	42.1 <sup>2/</sup>	42.0 ***	38.1 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:55-04:00 HOUR	42.6 <sup>2/</sup>	42.0 ***	38.6 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:00-04:05 HOUR	42.3 <sup>2/</sup>	42.0 ***	38.3 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:05-04:10 HOUR	42.5 <sup>2/</sup>	42.0 ***	38.5 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:10-04:15 HOUR	44.8 <sup>2/</sup>	42.0 ***	44.8 <sup>2/</sup>	40.6 ***	4.2
	04:15-04:20 HOUR	42.1 <sup>2/</sup>	42.0 ***	38.1 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:20-04:25 HOUR	42.0 <sup>2/</sup>	42.0 ***	38.0 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:25-04:30 HOUR	44.2 <sup>2/</sup>	42.0 ***	42.7 <sup>2/</sup>	40.6 ***	2.1
	04:30-04:35 HOUR	42.4 <sup>2/</sup>	42.0 ***	38.4 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:35-04:40 HOUR	42.7 <sup>2/</sup>	42.0 ***	38.7 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:40-04:45 HOUR	42.4 <sup>2/</sup>	42.0 ***	38.4 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>



DATE	TIME*	RESULT (dB(A))				
		L53-NOISE4 (47P 591830 1555340,47P 591842 1555360)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 20, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0002	04:45-04:50 HOUR	42.3 <sup>2/</sup>	42.0 ***	38.3 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:50-04:55 HOUR	42.9 <sup>2/</sup>	42.0 ***	38.9 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:55-05:00 HOUR	43.5 <sup>2/</sup>	42.0 ***	42.0 <sup>2/</sup>	40.6 ***	1.4
	05:00-05:05 HOUR	44.3 <sup>2/</sup>	42.0 ***	42.8 <sup>2/</sup>	40.6 ***	2.2
	05:05-05:10 HOUR	43.8 <sup>2/</sup>	42.0 ***	42.3 <sup>2/</sup>	40.6 ***	1.7
	05:10-05:15 HOUR	44.5 <sup>2/</sup>	42.0 ***	44.5 <sup>2/</sup>	40.6 ***	3.9
	05:15-05:20 HOUR	44.9 <sup>2/</sup>	42.0 ***	44.9 <sup>2/</sup>	40.6 ***	4.3
	05:20-05:25 HOUR	45.8 <sup>2/</sup>	42.0 ***	46.8 <sup>2/</sup>	40.6 ***	6.2
	05:25-05:30 HOUR	46.1 <sup>2/</sup>	42.0 ***	47.1 <sup>2/</sup>	40.6 ***	6.5
	05:30-05:35 HOUR	45.6 <sup>2/</sup>	42.0 ***	46.6 <sup>2/</sup>	40.6 ***	6.0
	05:35-05:40 HOUR	46.7 <sup>2/</sup>	42.0 ***	48.2 <sup>2/</sup>	40.6 ***	7.6
	05:40-05:45 HOUR	42.6 <sup>2/</sup>	42.0 ***	38.6 <sup>2/</sup>	40.6 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:45-05:50 HOUR	47.3 <sup>2/</sup>	42.0 ***	48.8 <sup>2/</sup>	40.6 ***	8.2
	05:50-05:55 HOUR	47.6 <sup>2/</sup>	42.0 ***	49.1 <sup>2/</sup>	40.6 ***	8.5
	05:55-06:00 HOUR	43.6 <sup>2/</sup>	42.0 ***	42.1 <sup>2/</sup>	40.6 ***	1.5
	<b>DAY TIME</b> <sup>1/</sup>					
	06:00-07:00 HOUR	49.6 <sup>1/</sup>	48.5 **	42.6 <sup>1/</sup>	46.6 **	NOT SIGNIFICANT <sup>3/</sup>
SEPTEMBER 20, 2022	<b>DAY TIME</b> <sup>1/</sup>					
T22AS905-0003	07:00-08:00 HOUR	49.1 <sup>1/</sup>	48.5 **	42.1 <sup>1/</sup>	46.3 **	NOT SIGNIFICANT <sup>3/</sup>
	08:00-09:00 HOUR	48.9 <sup>1/</sup>	48.5 **	41.9 <sup>1/</sup>	46.3 **	NOT SIGNIFICANT <sup>3/</sup>
	09:00-10:00 HOUR	50.6 <sup>1/</sup>	48.5 **	46.1 <sup>1/</sup>	46.3 **	NOT SIGNIFICANT <sup>3/</sup>
	10:00-11:00 HOUR	50.1 <sup>1/</sup>	48.5 **	45.6 <sup>1/</sup>	46.3 **	NOT SIGNIFICANT <sup>3/</sup>
	11:00-12:00 HOUR	49.0 <sup>1/</sup>	48.5 **	42.0 <sup>1/</sup>	46.3 **	NOT SIGNIFICANT <sup>3/</sup>
	12:00-13:00 HOUR	49.0 <sup>1/</sup>	48.5 **	42.0 <sup>1/</sup>	46.3 **	NOT SIGNIFICANT <sup>3/</sup>
	13:00-14:00 HOUR	48.6 <sup>1/</sup>	48.5 **	41.6 <sup>1/</sup>	46.3 **	NOT SIGNIFICANT <sup>3/</sup>
	14:00-15:00 HOUR	52.1 <sup>1/</sup>	48.5 **	50.1 <sup>1/</sup>	46.3 **	3.8
	15:00-16:00 HOUR	51.5 <sup>1/</sup>	48.5 **	48.5 <sup>1/</sup>	46.3 **	2.2
	16:00-17:00 HOUR	49.6 <sup>1/</sup>	48.5 **	42.6 <sup>1/</sup>	46.3 **	NOT SIGNIFICANT <sup>3/</sup>
	17:00-18:00 HOUR	49.5 <sup>1/</sup>	48.5 **	42.5 <sup>1/</sup>	46.3 **	NOT SIGNIFICANT <sup>3/</sup>
	18:00-19:00 HOUR	51.9 <sup>1/</sup>	48.5 **	48.9 <sup>1/</sup>	46.3 **	2.6
	19:00-20:00 HOUR	49.6 <sup>1/</sup>	48.5 **	42.6 <sup>1/</sup>	46.3 **	NOT SIGNIFICANT <sup>3/</sup>
	20:00-21:00 HOUR	50.1 <sup>1/</sup>	48.5 **	45.6 <sup>1/</sup>	46.3 **	NOT SIGNIFICANT <sup>3/</sup>
	21:00-22:00 HOUR	53.8 <sup>1/</sup>	48.5 **	52.3 <sup>1/</sup>	46.3 **	6.0
	<b>NIGHT TIME</b> <sup>2/</sup>					
	22:00-22:05 HOUR	47.2 <sup>2/</sup>	42.1 ***	48.7 <sup>2/</sup>	40.5 ***	8.2
	22:05-22:10 HOUR	47.2 <sup>2/</sup>	42.1 ***	48.7 <sup>2/</sup>	40.5 ***	8.2
	22:10-22:15 HOUR	46.8 <sup>2/</sup>	42.1 ***	48.3 <sup>2/</sup>	40.5 ***	7.8
	22:15-22:20 HOUR	47.1 <sup>2/</sup>	42.1 ***	48.6 <sup>2/</sup>	40.5 ***	8.1
	22:20-22:25 HOUR	47.0 <sup>2/</sup>	42.1 ***	48.5 <sup>2/</sup>	40.5 ***	8.0
	22:25-22:30 HOUR	46.9 <sup>2/</sup>	42.1 ***	48.4 <sup>2/</sup>	40.5 ***	7.9
	22:30-22:35 HOUR	47.2 <sup>2/</sup>	42.1 ***	48.7 <sup>2/</sup>	40.5 ***	8.2
	22:35-22:40 HOUR	47.0 <sup>2/</sup>	42.1 ***	48.5 <sup>2/</sup>	40.5 ***	8.0
	22:40-22:45 HOUR	47.1 <sup>2/</sup>	42.1 ***	48.6 <sup>2/</sup>	40.5 ***	8.1
	22:45-22:50 HOUR	46.2 <sup>2/</sup>	42.1 ***	47.2 <sup>2/</sup>	40.5 ***	6.7
	22:50-22:55 HOUR	46.8 <sup>2/</sup>	42.1 ***	48.3 <sup>2/</sup>	40.5 ***	7.8

DATE	TIME*	RESULT (dB(A))				
		L53-NOISE4 (47P 591830 1555340,47P 591842 1555360)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 20, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0003	22:55-23:00 HOUR	46.9 <sup>2/</sup>	42.1 ***	48.4 <sup>2/</sup>	40.5 ***	7.9
	23:00-23:05 HOUR	47.0 <sup>2/</sup>	42.1 ***	48.5 <sup>2/</sup>	40.5 ***	8.0
	23:05-23:10 HOUR	46.5 <sup>2/</sup>	42.1 ***	47.5 <sup>2/</sup>	40.5 ***	7.0
	23:10-23:15 HOUR	46.5 <sup>2/</sup>	42.1 ***	47.5 <sup>2/</sup>	40.5 ***	7.0
	23:15-23:20 HOUR	46.7 <sup>2/</sup>	42.1 ***	48.2 <sup>2/</sup>	40.5 ***	7.7
	23:20-23:25 HOUR	46.3 <sup>2/</sup>	42.1 ***	47.3 <sup>2/</sup>	40.5 ***	6.8
	23:25-23:30 HOUR	47.0 <sup>2/</sup>	42.1 ***	48.5 <sup>2/</sup>	40.5 ***	8.0
	23:30-23:35 HOUR	46.9 <sup>2/</sup>	42.1 ***	48.4 <sup>2/</sup>	40.5 ***	7.9
	23:35-23:40 HOUR	46.4 <sup>2/</sup>	42.1 ***	47.4 <sup>2/</sup>	40.5 ***	6.9
	23:40-23:45 HOUR	46.5 <sup>2/</sup>	42.1 ***	47.5 <sup>2/</sup>	40.5 ***	7.0
	23:45-23:50 HOUR	47.2 <sup>2/</sup>	42.1 ***	48.7 <sup>2/</sup>	40.5 ***	8.2
	23:50-23:55 HOUR	43.1 <sup>2/</sup>	42.1 ***	39.1 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:55-00:00 HOUR	45.0 <sup>2/</sup>	42.1 ***	45.0 <sup>2/</sup>	40.5 ***	4.5
SEPTEMBER 21, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0003	00:00-00:05 HOUR	45.1 <sup>2/</sup>	42.1 ***	45.1 <sup>2/</sup>	40.5 ***	4.6
	00:05-00:10 HOUR	45.1 <sup>2/</sup>	42.1 ***	45.1 <sup>2/</sup>	40.5 ***	4.6
	00:10-00:15 HOUR	46.8 <sup>2/</sup>	42.1 ***	48.3 <sup>2/</sup>	40.5 ***	7.8
	00:15-00:20 HOUR	46.5 <sup>2/</sup>	42.1 ***	47.5 <sup>2/</sup>	40.5 ***	7.0
	00:20-00:25 HOUR	46.4 <sup>2/</sup>	42.1 ***	47.4 <sup>2/</sup>	40.5 ***	6.9
	00:25-00:30 HOUR	44.0 <sup>2/</sup>	42.1 ***	42.5 <sup>2/</sup>	40.5 ***	2.0
	00:30-00:35 HOUR	43.2 <sup>2/</sup>	42.1 ***	39.2 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:35-00:40 HOUR	42.1 <sup>2/</sup>	42.1 ***	38.1 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:40-00:45 HOUR	42.7 <sup>2/</sup>	42.1 ***	38.7 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:45-00:50 HOUR	42.7 <sup>2/</sup>	42.1 ***	38.7 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:50-00:55 HOUR	42.4 <sup>2/</sup>	42.1 ***	38.4 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:55-01:00 HOUR	42.1 <sup>2/</sup>	42.1 ***	38.1 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:00-01:05 HOUR	42.3 <sup>2/</sup>	42.1 ***	38.3 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:05-01:10 HOUR	43.2 <sup>2/</sup>	42.1 ***	39.2 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:10-01:15 HOUR	46.4 <sup>2/</sup>	42.1 ***	47.4 <sup>2/</sup>	40.5 ***	6.9
	01:15-01:20 HOUR	47.3 <sup>2/</sup>	42.1 ***	48.8 <sup>2/</sup>	40.5 ***	8.3
	01:20-01:25 HOUR	43.1 <sup>2/</sup>	42.1 ***	39.1 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:25-01:30 HOUR	43.8 <sup>2/</sup>	42.1 ***	42.3 <sup>2/</sup>	40.5 ***	1.8
	01:30-01:35 HOUR	46.9 <sup>2/</sup>	42.1 ***	48.4 <sup>2/</sup>	40.5 ***	7.9
	01:35-01:40 HOUR	46.2 <sup>2/</sup>	42.1 ***	47.2 <sup>2/</sup>	40.5 ***	6.7
	01:40-01:45 HOUR	45.4 <sup>2/</sup>	42.1 ***	45.4 <sup>2/</sup>	40.5 ***	4.9
	01:45-01:50 HOUR	43.2 <sup>2/</sup>	42.1 ***	39.2 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:50-01:55 HOUR	42.2 <sup>2/</sup>	42.1 ***	38.2 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:55-02:00 HOUR	43.9 <sup>2/</sup>	42.1 ***	42.4 <sup>2/</sup>	40.5 ***	1.9
	02:00-02:05 HOUR	45.6 <sup>2/</sup>	42.1 ***	46.6 <sup>2/</sup>	40.5 ***	6.1
	02:05-02:10 HOUR	45.3 <sup>2/</sup>	42.1 ***	45.3 <sup>2/</sup>	40.5 ***	4.8
	02:10-02:15 HOUR	46.7 <sup>2/</sup>	42.1 ***	48.2 <sup>2/</sup>	40.5 ***	7.7
	02:15-02:20 HOUR	46.0 <sup>2/</sup>	42.1 ***	47.0 <sup>2/</sup>	40.5 ***	6.5
	02:20-02:25 HOUR	46.6 <sup>2/</sup>	42.1 ***	48.1 <sup>2/</sup>	40.5 ***	7.6
	02:25-02:30 HOUR	46.7 <sup>2/</sup>	42.1 ***	48.2 <sup>2/</sup>	40.5 ***	7.7
	02:30-02:35 HOUR	45.8 <sup>2/</sup>	42.1 ***	46.8 <sup>2/</sup>	40.5 ***	6.3



DATE	TIME*	RESULT (dB(A))				
		L53-NOISE4 (47P 591830 1555340,47P 591842 1555360)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 21, 2022 T22AS905-0003	<b>NIGHT TIME</b> <sup>2/</sup>					
	02:35-02:40 HOUR	46.0 <sup>2/</sup>	42.1 ***	47.0 <sup>2/</sup>	40.5 ***	6.5
	02:40-02:45 HOUR	45.7 <sup>2/</sup>	42.1 ***	46.7 <sup>2/</sup>	40.5 ***	6.2
	02:45-02:50 HOUR	46.0 <sup>2/</sup>	42.1 ***	47.0 <sup>2/</sup>	40.5 ***	6.5
	02:50-02:55 HOUR	44.7 <sup>2/</sup>	42.1 ***	44.7 <sup>2/</sup>	40.5 ***	4.2
	02:55-03:00 HOUR	43.0 <sup>2/</sup>	42.1 ***	39.0 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:00-03:05 HOUR	45.5 <sup>2/</sup>	42.1 ***	45.5 <sup>2/</sup>	40.5 ***	5.0
	03:05-03:10 HOUR	43.6 <sup>2/</sup>	42.1 ***	42.1 <sup>2/</sup>	40.5 ***	1.6
	03:10-03:15 HOUR	45.2 <sup>2/</sup>	42.1 ***	45.2 <sup>2/</sup>	40.5 ***	4.7
	03:15-03:20 HOUR	43.7 <sup>2/</sup>	42.1 ***	42.2 <sup>2/</sup>	40.5 ***	1.7
	03:20-03:25 HOUR	44.2 <sup>2/</sup>	42.1 ***	42.7 <sup>2/</sup>	40.5 ***	2.2
	03:25-03:30 HOUR	43.5 <sup>2/</sup>	42.1 ***	39.5 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:30-03:35 HOUR	43.8 <sup>2/</sup>	42.1 ***	42.3 <sup>2/</sup>	40.5 ***	1.8
	03:35-03:40 HOUR	44.7 <sup>2/</sup>	42.1 ***	44.7 <sup>2/</sup>	40.5 ***	4.2
	03:40-03:45 HOUR	43.2 <sup>2/</sup>	42.1 ***	39.2 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:45-03:50 HOUR	43.0 <sup>2/</sup>	42.1 ***	39.0 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:50-03:55 HOUR	46.7 <sup>2/</sup>	42.1 ***	48.2 <sup>2/</sup>	40.5 ***	7.7
	03:55-04:00 HOUR	42.8 <sup>2/</sup>	42.1 ***	38.8 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:00-04:05 HOUR	42.5 <sup>2/</sup>	42.1 ***	38.5 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:05-04:10 HOUR	42.9 <sup>2/</sup>	42.1 ***	38.9 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:10-04:15 HOUR	44.0 <sup>2/</sup>	42.1 ***	42.5 <sup>2/</sup>	40.5 ***	2.0
	04:15-04:20 HOUR	44.2 <sup>2/</sup>	42.1 ***	42.7 <sup>2/</sup>	40.5 ***	2.2
	04:20-04:25 HOUR	45.9 <sup>2/</sup>	42.1 ***	46.9 <sup>2/</sup>	40.5 ***	6.4
	04:25-04:30 HOUR	44.0 <sup>2/</sup>	42.1 ***	42.5 <sup>2/</sup>	40.5 ***	2.0
	04:30-04:35 HOUR	44.9 <sup>2/</sup>	42.1 ***	44.9 <sup>2/</sup>	40.5 ***	4.4
	04:35-04:40 HOUR	45.3 <sup>2/</sup>	42.1 ***	45.3 <sup>2/</sup>	40.5 ***	4.8
	04:40-04:45 HOUR	42.5 <sup>2/</sup>	42.1 ***	38.5 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:45-04:50 HOUR	42.3 <sup>2/</sup>	42.1 ***	38.3 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:50-04:55 HOUR	44.3 <sup>2/</sup>	42.1 ***	42.8 <sup>2/</sup>	40.5 ***	2.3
	04:55-05:00 HOUR	43.0 <sup>2/</sup>	42.1 ***	39.0 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:00-05:05 HOUR	43.0 <sup>2/</sup>	42.1 ***	39.0 <sup>2/</sup>	40.5 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:05-05:10 HOUR	44.2 <sup>2/</sup>	42.1 ***	42.7 <sup>2/</sup>	40.5 ***	2.2
	05:10-05:15 HOUR	44.0 <sup>2/</sup>	42.1 ***	42.5 <sup>2/</sup>	40.5 ***	2.0
	05:15-05:20 HOUR	45.6 <sup>2/</sup>	42.1 ***	46.6 <sup>2/</sup>	40.5 ***	6.1
	05:20-05:25 HOUR	45.2 <sup>2/</sup>	42.1 ***	45.2 <sup>2/</sup>	40.5 ***	4.7
	05:25-05:30 HOUR	45.1 <sup>2/</sup>	42.1 ***	45.1 <sup>2/</sup>	40.5 ***	4.6
	05:30-05:35 HOUR	47.8 <sup>2/</sup>	42.1 ***	49.3 <sup>2/</sup>	40.5 ***	8.8
	05:35-05:40 HOUR	45.1 <sup>2/</sup>	42.1 ***	45.1 <sup>2/</sup>	40.5 ***	4.6
	05:40-05:45 HOUR	46.5 <sup>2/</sup>	42.1 ***	47.5 <sup>2/</sup>	40.5 ***	7.0
	05:45-05:50 HOUR	46.9 <sup>2/</sup>	42.1 ***	48.4 <sup>2/</sup>	40.5 ***	7.9
	05:50-05:55 HOUR	47.3 <sup>2/</sup>	42.1 ***	48.8 <sup>2/</sup>	40.5 ***	8.3
	05:55-06:00 HOUR	47.9 <sup>2/</sup>	42.1 ***	49.4 <sup>2/</sup>	40.5 ***	8.9
	<b>DAY TIME</b> <sup>1/</sup>					
	06:00-07:00 HOUR	50.3 <sup>1/</sup>	48.5 **	45.8 <sup>1/</sup>	46.3 **	NOT SIGNIFICANT <sup>3/</sup>

- REMARK :**
- CASE 1 CALCULATION (DURING 06:00 TO 22:00 HOUR) : SPECIFIC NOISE LEVEL CONTINUOUSLY OCCUR AT LEAST 1 HOUR, MEASURING AS L<sub>Aeq</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>Aeq</sub> 5 minutes.
  - NOT SIGNIFICANT MEANS ANNOYING NOISE LEVEL IS LOWER THAN 0.
- \*\* PERCENTILE LEVEL 90 (L<sub>A90</sub>) IS MIDDLE VALUE OF 3 TIMES MEASURING.  
(15 MINUTES MEASURING DURING 06:00 TO 22:00 HOUR)  
AND RESIDUAL NOISE LEVEL (L<sub>Aeq</sub> 5 minutes) IS CHOSE AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.
- \*\*\* PERCENTILE LEVEL 90 (L<sub>A90</sub>) IS MIDDLE VALUE OF 3 TIMES MEASURING.  
(15 MINUTES MEASURING DURING 22:00 TO 06:00 HOUR)  
AND RESIDUAL NOISE LEVEL (L<sub>Aeq</sub> 5 minutes) IS CHOSE AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.



(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

SEPTEMBER 30, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakajpruek@poesiam.com  
**MEASURING SOURCE** : L53-NOISE5 (UTM WGS 84 ZONE 47P 589629 1554464)  
**MEASURING TYPE** : AMBIENT (NOISE) **RECEIVED DATE** : SEPTEMBER 18-21, 2022  
**MEASURING DATE** : SEPTEMBER 18-21, 2022 **ANALYTICAL DATE** : SEPTEMBER 18-21, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U077021  
**MEASURING METHOD** : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2022-006174  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T22AS905-0004 - T22AS905-0006

TIME*	RESULT dB(A)		
	L53-NOISE5 (UTM WGS 84 ZONE 47P 589629 1554464)		
	SEPTEMBER 18-19, 2022		
	T22AS905-0004		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	52.9	71.0	42.5
08:00-09:00 HOUR	53.3	70.8	44.6
09:00-10:00 HOUR	52.6	71.0	43.1
10:00-11:00 HOUR	53.7	70.2	43.1
11:00-12:00 HOUR	53.1	72.7	42.0
12:00-13:00 HOUR	51.8	73.4	39.4
13:00-14:00 HOUR	57.8	75.9	42.1
14:00-15:00 HOUR	53.0	68.1	41.4
15:00-16:00 HOUR	53.4	75.7	42.1
16:00-17:00 HOUR	55.6	81.2	45.4
17:00-18:00 HOUR	53.9	73.4	44.5
18:00-19:00 HOUR	55.1	75.2	46.3
19:00-20:00 HOUR	56.1	71.2	53.1
20:00-21:00 HOUR	56.7	67.9	55.1
21:00-22:00 HOUR	55.9	68.5	54.6
22:00-23:00 HOUR	51.5	68.3	42.7
23:00-00:00 HOUR	51.4	68.1	41.7
00:00-01:00 HOUR	52.0	72.9	42.4
01:00-02:00 HOUR	50.5	66.3	44.6
02:00-03:00 HOUR	51.2	64.3	46.2
03:00-04:00 HOUR	52.7	69.1	50.3
04:00-05:00 HOUR	50.7	68.1	45.1
05:00-06:00 HOUR	50.9	69.7	45.9
06:00-07:00 HOUR	54.6	76.1	46.2
L <sub>Aeq</sub> 24 hours		53.8	
L <sub>Adn</sub>		58.8	

TIME*	RESULT dB(A)		
	L53-NOISE5 (UTM WGS 84 ZONE 47P 589629 1554464)		
	SEPTEMBER 19-20, 2022		
	T22AS905-0005		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	56.3	74.4	48.1
08:00-09:00 HOUR	56.3	71.1	48.1
09:00-10:00 HOUR	53.8	74.7	44.5
10:00-11:00 HOUR	56.9	83.7	44.1
11:00-12:00 HOUR	55.5	75.3	44.2
12:00-13:00 HOUR	52.9	73.0	44.3
13:00-14:00 HOUR	52.2	77.5	43.5
14:00-15:00 HOUR	52.2	68.4	43.8
15:00-16:00 HOUR	53.6	73.2	45.2
16:00-17:00 HOUR	53.1	71.6	43.1
17:00-18:00 HOUR	55.2	77.7	45.4
18:00-19:00 HOUR	56.2	79.3	45.5
19:00-20:00 HOUR	57.4	82.1	54.3
20:00-21:00 HOUR	57.5	79.2	55.1
21:00-22:00 HOUR	54.6	69.3	52.5
22:00-23:00 HOUR	50.2	67.6	42.8
23:00-00:00 HOUR	48.5	69.9	46.7
00:00-01:00 HOUR	49.3	64.8	41.8
01:00-02:00 HOUR	50.2	68.0	39.4
02:00-03:00 HOUR	50.5	71.5	43.9
03:00-04:00 HOUR	49.5	67.3	43.5
04:00-05:00 HOUR	49.3	61.4	43.1
05:00-06:00 HOUR	49.4	71.2	45.3
06:00-07:00 HOUR	52.1	69.8	43.7
L <sub>Aeq</sub> 24 hours		53.9	
L <sub>Adn</sub>		57.7	





TIME*	RESULT dB(A)		
	L53-NOISE5 (UTM WGS 84 ZONE 47P 589629 1554464)		
	SEPTEMBER 20-21, 2022		
	T22AS905-0006		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	55.0	71.6	44.5
08:00-09:00 HOUR	54.6	75.0	44.4
09:00-10:00 HOUR	53.2	71.4	45.7
10:00-11:00 HOUR	51.8	71.0	42.6
11:00-12:00 HOUR	53.8	73.7	44.3
12:00-13:00 HOUR	52.3	74.1	43.1
13:00-14:00 HOUR	52.2	67.6	45.5
14:00-15:00 HOUR	52.4	70.4	45.9
15:00-16:00 HOUR	51.8	67.1	44.4
16:00-17:00 HOUR	51.6	65.0	44.1
17:00-18:00 HOUR	54.6	77.6	44.5
18:00-19:00 HOUR	51.5	69.9	44.0
19:00-20:00 HOUR	54.4	70.8	42.6
20:00-21:00 HOUR	51.1	77.8	42.2
21:00-22:00 HOUR	55.1	72.0	41.5
22:00-23:00 HOUR	43.6	61.2	40.9
23:00-00:00 HOUR	42.7	69.2	40.7
00:00-01:00 HOUR	43.6	62.3	39.4
01:00-02:00 HOUR	42.0	60.3	39.3
02:00-03:00 HOUR	41.9	56.8	39.9
03:00-04:00 HOUR	42.9	66.6	39.5
04:00-05:00 HOUR	43.5	65.1	40.4
05:00-06:00 HOUR	44.5	62.9	42.7
06:00-07:00 HOUR	53.5	81.4	42.0
L <sub>Aeq</sub> 24 hours	51.7		
L <sub>Adn</sub>	54.7		

*hik m*

(MR. SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

SEPTEMBER 30, 2022

## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakalpruek@poesiam.com  
**MEASURING PLACE** : L53-NOISE5 (UTM WGS 84 ZONE 47P 589680 1554484)  
**MEASURING TYPE** : AMBIENT (ANNOYANCE NOISE)  
**MEASURING DATE** : SEPTEMBER 18-21, 2022  
**MEASURING TIME** : \*  
**MEASURING EQUIPMENT** : INTEGRATED SOUND LEVEL METER AND CALCULATION  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : SEPTEMBER 18-21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 18-21, 2022  
**REPORT NO.** : 2022-U077019  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS905-0004 - T22AS905-0006

DATE	TIME*	RESULT (dB(A))				
		L53-NOISE5 (47P 589629 1554464, 47P 589680 1554484)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 18, 2022	<b>DAY TIME</b> <sup>1/</sup>					
T22AS905-0004	07:00-08:00 HOUR	52.9 <sup>1/</sup>	51.6 **	45.9 <sup>1/</sup>	49.3 **	NOT SIGNIFICANT <sup>3/</sup>
	08:00-09:00 HOUR	53.3 <sup>1/</sup>	51.6 **	48.8 <sup>1/</sup>	49.3 **	NOT SIGNIFICANT <sup>3/</sup>
	09:00-10:00 HOUR	52.6 <sup>1/</sup>	51.6 **	45.6 <sup>1/</sup>	49.3 **	NOT SIGNIFICANT <sup>3/</sup>
	10:00-11:00 HOUR	53.7 <sup>1/</sup>	51.6 **	49.2 <sup>1/</sup>	49.3 **	NOT SIGNIFICANT <sup>3/</sup>
	11:00-12:00 HOUR	53.1 <sup>1/</sup>	51.6 **	48.6 <sup>1/</sup>	49.3 **	NOT SIGNIFICANT <sup>3/</sup>
	12:00-13:00 HOUR	51.8 <sup>1/</sup>	51.6 **	44.8 <sup>1/</sup>	49.3 **	NOT SIGNIFICANT <sup>3/</sup>
	13:00-14:00 HOUR	57.8 <sup>1/</sup>	51.6 **	56.3 <sup>1/</sup>	49.3 **	7.0
	14:00-15:00 HOUR	53.0 <sup>1/</sup>	51.6 **	46.0 <sup>1/</sup>	49.3 **	NOT SIGNIFICANT <sup>3/</sup>
	15:00-16:00 HOUR	53.4 <sup>1/</sup>	51.6 **	48.9 <sup>1/</sup>	49.3 **	NOT SIGNIFICANT <sup>3/</sup>
	16:00-17:00 HOUR	55.6 <sup>1/</sup>	51.6 **	53.6 <sup>1/</sup>	49.3 **	4.3
	17:00-18:00 HOUR	53.9 <sup>1/</sup>	51.6 **	49.4 <sup>1/</sup>	49.3 **	0.1
	18:00-19:00 HOUR	55.1 <sup>1/</sup>	51.6 **	53.1 <sup>1/</sup>	49.3 **	3.8
	19:00-20:00 HOUR	56.1 <sup>1/</sup>	51.6 **	54.6 <sup>1/</sup>	49.3 **	5.3
	20:00-21:00 HOUR	56.7 <sup>1/</sup>	51.6 **	55.2 <sup>1/</sup>	49.3 **	5.9
	21:00-22:00 HOUR	55.9 <sup>1/</sup>	51.6 **	53.9 <sup>1/</sup>	49.3 **	4.6
	<b>NIGHT TIME</b> <sup>2/</sup>					
	22:00-22:05 HOUR	51.5 <sup>2/</sup>	49.0 ***	51.5 <sup>2/</sup>	47.7 ***	3.8
	22:05-22:10 HOUR	51.2 <sup>2/</sup>	49.0 ***	49.7 <sup>2/</sup>	47.7 ***	2.0
	22:10-22:15 HOUR	52.1 <sup>2/</sup>	49.0 ***	52.1 <sup>2/</sup>	47.7 ***	4.4
	22:15-22:20 HOUR	50.2 <sup>2/</sup>	49.0 ***	46.2 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	22:20-22:25 HOUR	52.2 <sup>2/</sup>	49.0 ***	52.2 <sup>2/</sup>	47.7 ***	4.5
	22:25-22:30 HOUR	53.1 <sup>2/</sup>	49.0 ***	54.1 <sup>2/</sup>	47.7 ***	6.4
	22:30-22:35 HOUR	51.8 <sup>2/</sup>	49.0 ***	51.8 <sup>2/</sup>	47.7 ***	4.1
	22:35-22:40 HOUR	50.0 <sup>2/</sup>	49.0 ***	46.0 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	22:40-22:45 HOUR	49.6 <sup>2/</sup>	49.0 ***	45.6 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	22:45-22:50 HOUR	51.9 <sup>2/</sup>	49.0 ***	51.9 <sup>2/</sup>	47.7 ***	4.2
	22:50-22:55 HOUR	52.4 <sup>2/</sup>	49.0 ***	52.4 <sup>2/</sup>	47.7 ***	4.7
	22:55-23:00 HOUR	50.5 <sup>2/</sup>	49.0 ***	49.0 <sup>2/</sup>	47.7 ***	1.3
	23:00-23:05 HOUR	50.0 <sup>2/</sup>	49.0 ***	46.0 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:05-23:10 HOUR	52.3 <sup>2/</sup>	49.0 ***	52.3 <sup>2/</sup>	47.7 ***	4.6
	23:10-23:15 HOUR	52.6 <sup>2/</sup>	49.0 ***	53.6 <sup>2/</sup>	47.7 ***	5.9
	23:15-23:20 HOUR	52.2 <sup>2/</sup>	49.0 ***	52.2 <sup>2/</sup>	47.7 ***	4.5
	23:20-23:25 HOUR	49.2 <sup>2/</sup>	49.0 ***	45.2 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:25-23:30 HOUR	50.3 <sup>2/</sup>	49.0 ***	46.3 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>





DATE	TIME*	RESULT (dB(A))				
		L53-NOISE5 (47P 589629 1554464, 47P 589680 1554484)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 18, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0004	23:30-23:35 HOUR	50.4 <sup>2/</sup>	49.0 ***	46.4 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:35-23:40 HOUR	50.9 <sup>2/</sup>	49.0 ***	49.4 <sup>2/</sup>	47.7 ***	1.7
	23:40-23:45 HOUR	52.4 <sup>2/</sup>	49.0 ***	52.4 <sup>2/</sup>	47.7 ***	4.7
	23:45-23:50 HOUR	49.5 <sup>2/</sup>	49.0 ***	45.5 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:50-23:55 HOUR	51.5 <sup>2/</sup>	49.0 ***	51.5 <sup>2/</sup>	47.7 ***	3.8
	23:55-00:00 HOUR	52.9 <sup>2/</sup>	49.0 ***	53.9 <sup>2/</sup>	47.7 ***	6.2
SEPTEMBER 19, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0004	00:00-00:05 HOUR	51.8 <sup>2/</sup>	49.0 ***	51.8 <sup>2/</sup>	47.7 ***	4.1
	00:05-00:10 HOUR	49.9 <sup>2/</sup>	49.0 ***	45.9 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:10-00:15 HOUR	50.9 <sup>2/</sup>	49.0 ***	46.0 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:15-00:20 HOUR	51.2 <sup>2/</sup>	49.0 ***	49.7 <sup>2/</sup>	47.7 ***	2.0
	00:20-00:25 HOUR	52.5 <sup>2/</sup>	49.0 ***	53.5 <sup>2/</sup>	47.7 ***	5.8
	00:25-00:30 HOUR	51.2 <sup>2/</sup>	49.0 ***	49.7 <sup>2/</sup>	47.7 ***	2.0
	00:30-00:35 HOUR	54.5 <sup>2/</sup>	49.0 ***	56.0 <sup>2/</sup>	47.7 ***	8.3
	00:35-00:40 HOUR	50.6 <sup>2/</sup>	49.0 ***	49.1 <sup>2/</sup>	47.7 ***	1.4
	00:40-00:45 HOUR	53.0 <sup>2/</sup>	49.0 ***	54.0 <sup>2/</sup>	47.7 ***	6.3
	00:45-00:50 HOUR	52.2 <sup>2/</sup>	49.0 ***	52.2 <sup>2/</sup>	47.7 ***	4.5
	00:50-00:55 HOUR	52.7 <sup>2/</sup>	49.0 ***	53.7 <sup>2/</sup>	47.7 ***	6.0
	00:55-01:00 HOUR	52.5 <sup>2/</sup>	49.0 ***	53.5 <sup>2/</sup>	47.7 ***	5.8
	01:00-01:05 HOUR	50.4 <sup>2/</sup>	49.0 ***	46.4 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:05-01:10 HOUR	52.3 <sup>2/</sup>	49.0 ***	52.3 <sup>2/</sup>	47.7 ***	4.6
	01:10-01:15 HOUR	49.1 <sup>2/</sup>	49.0 ***	45.1 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:15-01:20 HOUR	51.5 <sup>2/</sup>	49.0 ***	51.5 <sup>2/</sup>	47.7 ***	3.8
	01:20-01:25 HOUR	53.5 <sup>2/</sup>	49.0 ***	55.0 <sup>2/</sup>	47.7 ***	7.3
	01:25-01:30 HOUR	49.4 <sup>2/</sup>	49.0 ***	45.4 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:30-01:35 HOUR	49.2 <sup>2/</sup>	49.0 ***	45.2 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:35-01:40 HOUR	49.3 <sup>2/</sup>	49.0 ***	45.3 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:40-01:45 HOUR	49.3 <sup>2/</sup>	49.0 ***	45.3 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:45-01:50 HOUR	49.8 <sup>2/</sup>	49.0 ***	45.8 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:50-01:55 HOUR	49.2 <sup>2/</sup>	49.0 ***	45.2 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:55-02:00 HOUR	50.6 <sup>2/</sup>	49.0 ***	49.1 <sup>2/</sup>	47.7 ***	1.4
	02:00-02:05 HOUR	49.5 <sup>2/</sup>	49.0 ***	45.5 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:05-02:10 HOUR	53.1 <sup>2/</sup>	49.0 ***	54.1 <sup>2/</sup>	47.7 ***	6.4
	02:10-02:15 HOUR	51.2 <sup>2/</sup>	49.0 ***	49.7 <sup>2/</sup>	47.7 ***	2.0
	02:15-02:20 HOUR	51.5 <sup>2/</sup>	49.0 ***	51.5 <sup>2/</sup>	47.7 ***	3.8
	02:20-02:25 HOUR	51.3 <sup>2/</sup>	49.0 ***	49.8 <sup>2/</sup>	47.7 ***	2.1
	02:25-02:30 HOUR	51.1 <sup>2/</sup>	49.0 ***	49.6 <sup>2/</sup>	47.7 ***	1.9
	02:30-02:35 HOUR	50.9 <sup>2/</sup>	49.0 ***	49.4 <sup>2/</sup>	47.7 ***	1.7
	02:35-02:40 HOUR	49.1 <sup>2/</sup>	49.0 ***	45.1 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:40-02:45 HOUR	52.7 <sup>2/</sup>	49.0 ***	53.7 <sup>2/</sup>	47.7 ***	6.0
	02:45-02:50 HOUR	50.8 <sup>2/</sup>	49.0 ***	49.3 <sup>2/</sup>	47.7 ***	1.6
	02:50-02:55 HOUR	51.6 <sup>2/</sup>	49.0 ***	51.6 <sup>2/</sup>	47.7 ***	3.9
	02:55-03:00 HOUR	49.0 <sup>2/</sup>	49.0 ***	45.0 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:00-03:05 HOUR	52.5 <sup>2/</sup>	49.0 ***	53.5 <sup>2/</sup>	47.7 ***	5.8
	03:05-03:10 HOUR	52.2 <sup>2/</sup>	49.0 ***	52.2 <sup>2/</sup>	47.7 ***	4.5

DATE	TIME*	RESULT (dB(A))				
		L53-NOISE5 (47P 589629 1554464, 47P 589680 1554484)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 19, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0004	03:10-03:15 HOUR	51.9 <sup>2/</sup>	49.0 ***	51.9 <sup>2/</sup>	47.7 ***	4.2
	03:15-03:20 HOUR	52.4 <sup>2/</sup>	49.0 ***	52.4 <sup>2/</sup>	47.7 ***	4.7
	03:20-03:25 HOUR	53.0 <sup>2/</sup>	49.0 ***	54.0 <sup>2/</sup>	47.7 ***	6.3
	03:25-03:30 HOUR	50.1 <sup>2/</sup>	49.0 ***	46.1 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:30-03:35 HOUR	54.6 <sup>2/</sup>	49.0 ***	56.1 <sup>2/</sup>	47.7 ***	8.4
	03:35-03:40 HOUR	52.3 <sup>2/</sup>	49.0 ***	52.3 <sup>2/</sup>	47.7 ***	4.6
	03:40-03:45 HOUR	52.1 <sup>2/</sup>	49.0 ***	52.1 <sup>2/</sup>	47.7 ***	4.4
	03:45-03:50 HOUR	54.9 <sup>2/</sup>	49.0 ***	56.4 <sup>2/</sup>	47.7 ***	8.7
	03:50-03:55 HOUR	52.0 <sup>2/</sup>	49.0 ***	52.0 <sup>2/</sup>	47.7 ***	4.3
	03:55-04:00 HOUR	52.3 <sup>2/</sup>	49.0 ***	52.3 <sup>2/</sup>	47.7 ***	4.6
	04:00-04:05 HOUR	49.8 <sup>2/</sup>	49.0 ***	45.8 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:05-04:10 HOUR	52.6 <sup>2/</sup>	49.0 ***	53.6 <sup>2/</sup>	47.7 ***	5.9
	04:10-04:15 HOUR	49.1 <sup>2/</sup>	49.0 ***	45.1 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:15-04:20 HOUR	50.5 <sup>2/</sup>	49.0 ***	49.0 <sup>2/</sup>	47.7 ***	1.3
	04:20-04:25 HOUR	50.2 <sup>2/</sup>	49.0 ***	46.2 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:25-04:30 HOUR	50.1 <sup>2/</sup>	49.0 ***	46.1 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:30-04:35 HOUR	52.9 <sup>2/</sup>	49.0 ***	53.9 <sup>2/</sup>	47.7 ***	6.2
	04:35-04:40 HOUR	50.0 <sup>2/</sup>	49.0 ***	46.0 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:40-04:45 HOUR	49.1 <sup>2/</sup>	49.0 ***	45.1 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:45-04:50 HOUR	51.7 <sup>2/</sup>	49.0 ***	51.7 <sup>2/</sup>	47.7 ***	4.0
	04:50-04:55 HOUR	49.2 <sup>2/</sup>	49.0 ***	45.2 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:55-05:00 HOUR	51.4 <sup>2/</sup>	49.0 ***	49.9 <sup>2/</sup>	47.7 ***	2.2
	05:00-05:05 HOUR	49.8 <sup>2/</sup>	49.0 ***	45.8 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:05-05:10 HOUR	51.0 <sup>2/</sup>	49.0 ***	49.5 <sup>2/</sup>	47.7 ***	1.8
	05:10-05:15 HOUR	49.3 <sup>2/</sup>	49.0 ***	45.3 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:15-05:20 HOUR	49.4 <sup>2/</sup>	49.0 ***	45.4 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:20-05:25 HOUR	51.5 <sup>2/</sup>	49.0 ***	51.5 <sup>2/</sup>	47.7 ***	3.8
	05:25-05:30 HOUR	50.3 <sup>2/</sup>	49.0 ***	46.3 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:30-05:35 HOUR	51.8 <sup>2/</sup>	49.0 ***	51.8 <sup>2/</sup>	47.7 ***	4.1
	05:35-05:40 HOUR	51.0 <sup>2/</sup>	49.0 ***	49.5 <sup>2/</sup>	47.7 ***	1.8
	05:40-05:45 HOUR	49.8 <sup>2/</sup>	49.0 ***	45.8 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:45-05:50 HOUR	53.1 <sup>2/</sup>	49.0 ***	54.1 <sup>2/</sup>	47.7 ***	6.4
	05:50-05:55 HOUR	49.4 <sup>2/</sup>	49.0 ***	45.4 <sup>2/</sup>	47.7 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:55-06:00 HOUR	52.6 <sup>2/</sup>	49.0 ***	53.6 <sup>2/</sup>	47.7 ***	5.9
	<b>DAY TIME</b> <sup>1/</sup>					
	06:00-07:00 HOUR	54.6 <sup>1/</sup>	51.6 **	51.6 <sup>1/</sup>	49.3 **	2.3
SEPTEMBER 19, 2022	<b>DAY TIME</b> <sup>1/</sup>					
T22AS905-0005	07:00-08:00 HOUR	56.3 <sup>1/</sup>	52.1 **	54.3 <sup>1/</sup>	50.5 **	3.8
	08:00-09:00 HOUR	56.3 <sup>1/</sup>	52.1 **	54.3 <sup>1/</sup>	50.5 **	3.8
	09:00-10:00 HOUR	53.8 <sup>1/</sup>	52.1 **	49.3 <sup>1/</sup>	50.5 **	NOT SIGNIFICANT <sup>3/</sup>
	10:00-11:00 HOUR	56.9 <sup>1/</sup>	52.1 **	55.4 <sup>1/</sup>	50.5 **	4.9
	11:00-12:00 HOUR	55.5 <sup>1/</sup>	52.1 **	52.5 <sup>1/</sup>	50.5 **	2.0
	12:00-13:00 HOUR	52.9 <sup>1/</sup>	52.1 **	45.9 <sup>1/</sup>	50.5 **	NOT SIGNIFICANT <sup>3/</sup>
	13:00-14:00 HOUR	52.2 <sup>1/</sup>	52.1 **	45.2 <sup>1/</sup>	50.5 **	NOT SIGNIFICANT <sup>3/</sup>
	14:00-15:00 HOUR	52.2 <sup>1/</sup>	52.1 **	45.2 <sup>1/</sup>	50.5 **	NOT SIGNIFICANT <sup>3/</sup>



DATE	TIME*	RESULT (dB(A))				
		L53-NOISE5 (47P 589629 1554464, 47P 589680 1554484)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 19, 2022	<b>DAY TIME</b> <sup>1/</sup>					
T22AS905-0005	15:00-16:00 HOUR	53.6 <sup>1/</sup>	52.1 **	49.1 <sup>1/</sup>	50.5 **	NOT SIGNIFICANT <sup>3/</sup>
	16:00-17:00 HOUR	53.1 <sup>1/</sup>	52.1 **	46.1 <sup>1/</sup>	50.5 **	NOT SIGNIFICANT <sup>3/</sup>
	17:00-18:00 HOUR	55.2 <sup>1/</sup>	52.1 **	52.2 <sup>1/</sup>	50.5 **	1.7
	18:00-19:00 HOUR	56.2 <sup>1/</sup>	52.1 **	54.2 <sup>1/</sup>	50.5 **	3.7
	19:00-20:00 HOUR	57.4 <sup>1/</sup>	52.1 **	55.9 <sup>1/</sup>	50.5 **	5.4
	20:00-21:00 HOUR	57.5 <sup>1/</sup>	52.1 **	56.0 <sup>1/</sup>	50.5 **	5.5
	21:00-22:00 HOUR	54.6 <sup>1/</sup>	52.1 **	51.6 <sup>1/</sup>	50.5 **	1.1
	<b>NIGHT TIME</b> <sup>2/</sup>					
	22:00-22:05 HOUR	50.1 <sup>2/</sup>	47.4 ***	50.1 <sup>2/</sup>	46.0 ***	4.1
	22:05-22:10 HOUR	51.0 <sup>2/</sup>	47.4 ***	52.0 <sup>2/</sup>	46.0 ***	6.0
	22:10-22:15 HOUR	48.0 <sup>2/</sup>	47.4 ***	44.0 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	22:15-22:20 HOUR	50.6 <sup>2/</sup>	47.4 ***	50.6 <sup>2/</sup>	46.0 ***	4.6
	22:20-22:25 HOUR	50.7 <sup>2/</sup>	47.4 ***	50.7 <sup>2/</sup>	46.0 ***	4.7
	22:25-22:30 HOUR	51.4 <sup>2/</sup>	47.4 ***	52.4 <sup>2/</sup>	46.0 ***	6.4
	22:30-22:35 HOUR	51.5 <sup>2/</sup>	47.4 ***	52.5 <sup>2/</sup>	46.0 ***	6.5
	22:35-22:40 HOUR	49.9 <sup>2/</sup>	47.4 ***	49.9 <sup>2/</sup>	46.0 ***	3.9
	22:40-22:45 HOUR	50.4 <sup>2/</sup>	47.4 ***	50.4 <sup>2/</sup>	46.0 ***	4.4
	22:45-22:50 HOUR	49.7 <sup>2/</sup>	47.4 ***	48.2 <sup>2/</sup>	46.0 ***	2.2
	22:50-22:55 HOUR	48.5 <sup>2/</sup>	47.4 ***	44.5 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	22:55-23:00 HOUR	49.2 <sup>2/</sup>	47.4 ***	47.7 <sup>2/</sup>	46.0 ***	1.7
	23:00-23:05 HOUR	48.5 <sup>2/</sup>	47.4 ***	44.5 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:05-23:10 HOUR	49.2 <sup>2/</sup>	47.4 ***	47.7 <sup>2/</sup>	46.0 ***	1.7
	23:10-23:15 HOUR	48.2 <sup>2/</sup>	47.4 ***	44.2 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:15-23:20 HOUR	48.0 <sup>2/</sup>	47.4 ***	44.0 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:20-23:25 HOUR	48.7 <sup>2/</sup>	47.4 ***	44.7 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:25-23:30 HOUR	47.9 <sup>2/</sup>	47.4 ***	43.9 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:30-23:35 HOUR	47.4 <sup>2/</sup>	47.4 ***	43.4 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:35-23:40 HOUR	51.1 <sup>2/</sup>	47.4 ***	52.1 <sup>2/</sup>	46.0 ***	6.1
	23:40-23:45 HOUR	47.4 <sup>2/</sup>	47.4 ***	43.4 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:45-23:50 HOUR	47.5 <sup>2/</sup>	47.4 ***	43.5 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:50-23:55 HOUR	47.7 <sup>2/</sup>	47.4 ***	43.7 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:55-00:00 HOUR	48.4 <sup>2/</sup>	47.4 ***	44.4 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
SEPTEMBER 20, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0005	00:00-00:05 HOUR	50.0 <sup>2/</sup>	47.4 ***	50.0 <sup>2/</sup>	46.0 ***	4.0
	00:05-00:10 HOUR	52.3 <sup>2/</sup>	47.4 ***	53.8 <sup>2/</sup>	46.0 ***	7.8
	00:10-00:15 HOUR	48.2 <sup>2/</sup>	47.4 ***	44.2 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:15-00:20 HOUR	47.7 <sup>2/</sup>	47.4 ***	43.7 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:20-00:25 HOUR	48.8 <sup>2/</sup>	47.4 ***	44.8 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:25-00:30 HOUR	49.2 <sup>2/</sup>	47.4 ***	47.7 <sup>2/</sup>	46.0 ***	1.7
	00:30-00:35 HOUR	48.9 <sup>2/</sup>	47.4 ***	47.4 <sup>2/</sup>	46.0 ***	1.4
	00:35-00:40 HOUR	47.4 <sup>2/</sup>	47.4 ***	43.4 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:40-00:45 HOUR	49.1 <sup>2/</sup>	47.4 ***	47.6 <sup>2/</sup>	46.0 ***	1.6
	00:45-00:50 HOUR	48.0 <sup>2/</sup>	47.4 ***	44.0 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:50-00:55 HOUR	49.5 <sup>2/</sup>	47.4 ***	48.0 <sup>2/</sup>	46.0 ***	2.0
	00:55-01:00 HOUR	50.1 <sup>2/</sup>	47.4 ***	50.1 <sup>2/</sup>	46.0 ***	4.1

DATE	TIME*	RESULT (dB(A))				
		L53-NOISE5 (47P 589629 1554464, 47P 589680 1554484)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 20, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0005	01:00-01:05 HOUR	52.5 <sup>2/</sup>	47.4 ***	54.0 <sup>2/</sup>	46.0 ***	8.0
	01:05-01:10 HOUR	51.6 <sup>2/</sup>	47.4 ***	52.6 <sup>2/</sup>	46.0 ***	6.6
	01:10-01:15 HOUR	49.9 <sup>2/</sup>	47.4 ***	49.9 <sup>2/</sup>	46.0 ***	3.9
	01:15-01:20 HOUR	47.8 <sup>2/</sup>	47.4 ***	43.8 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:20-01:25 HOUR	47.8 <sup>2/</sup>	47.4 ***	43.8 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:25-01:30 HOUR	51.7 <sup>2/</sup>	47.4 ***	52.7 <sup>2/</sup>	46.0 ***	6.7
	01:30-01:35 HOUR	49.2 <sup>2/</sup>	47.4 ***	47.7 <sup>2/</sup>	46.0 ***	1.7
	01:35-01:40 HOUR	47.8 <sup>2/</sup>	47.4 ***	43.8 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:40-01:45 HOUR	52.0 <sup>2/</sup>	47.4 ***	53.5 <sup>2/</sup>	46.0 ***	7.5
	01:45-01:50 HOUR	50.2 <sup>2/</sup>	47.4 ***	50.2 <sup>2/</sup>	46.0 ***	4.2
	01:50-01:55 HOUR	49.0 <sup>2/</sup>	47.4 ***	47.5 <sup>2/</sup>	46.0 ***	1.5
	01:55-02:00 HOUR	49.4 <sup>2/</sup>	47.4 ***	47.9 <sup>2/</sup>	46.0 ***	1.9
	02:00-02:05 HOUR	48.8 <sup>2/</sup>	47.4 ***	44.8 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:05-02:10 HOUR	49.9 <sup>2/</sup>	47.4 ***	49.9 <sup>2/</sup>	46.0 ***	3.9
	02:10-02:15 HOUR	49.8 <sup>2/</sup>	47.4 ***	48.3 <sup>2/</sup>	46.0 ***	2.3
	02:15-02:20 HOUR	49.2 <sup>2/</sup>	47.4 ***	47.7 <sup>2/</sup>	46.0 ***	1.7
	02:20-02:25 HOUR	51.5 <sup>2/</sup>	47.4 ***	52.5 <sup>2/</sup>	46.0 ***	6.5
	02:25-02:30 HOUR	48.5 <sup>2/</sup>	47.4 ***	44.5 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:30-02:35 HOUR	49.6 <sup>2/</sup>	47.4 ***	48.1 <sup>2/</sup>	46.0 ***	2.1
	02:35-02:40 HOUR	50.9 <sup>2/</sup>	47.4 ***	51.9 <sup>2/</sup>	46.0 ***	5.9
	02:40-02:45 HOUR	51.8 <sup>2/</sup>	47.4 ***	52.8 <sup>2/</sup>	46.0 ***	6.8
	02:45-02:50 HOUR	51.1 <sup>2/</sup>	47.4 ***	52.1 <sup>2/</sup>	46.0 ***	6.1
	02:50-02:55 HOUR	50.8 <sup>2/</sup>	47.4 ***	50.8 <sup>2/</sup>	46.0 ***	4.8
	02:55-03:00 HOUR	52.5 <sup>2/</sup>	47.4 ***	54.0 <sup>2/</sup>	46.0 ***	8.0
	03:00-03:05 HOUR	52.3 <sup>2/</sup>	47.4 ***	53.8 <sup>2/</sup>	46.0 ***	7.8
	03:05-03:10 HOUR	49.6 <sup>2/</sup>	47.4 ***	48.1 <sup>2/</sup>	46.0 ***	2.1
	03:10-03:15 HOUR	51.1 <sup>2/</sup>	47.4 ***	52.1 <sup>2/</sup>	46.0 ***	6.1
	03:15-03:20 HOUR	48.4 <sup>2/</sup>	47.4 ***	44.4 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:20-03:25 HOUR	47.6 <sup>2/</sup>	47.4 ***	43.6 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:25-03:30 HOUR	50.4 <sup>2/</sup>	47.4 ***	50.4 <sup>2/</sup>	46.0 ***	4.4
	03:30-03:35 HOUR	47.9 <sup>2/</sup>	47.4 ***	43.9 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:35-03:40 HOUR	48.6 <sup>2/</sup>	47.4 ***	44.6 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:40-03:45 HOUR	47.6 <sup>2/</sup>	47.4 ***	43.6 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:45-03:50 HOUR	50.2 <sup>2/</sup>	47.4 ***	50.2 <sup>2/</sup>	46.0 ***	4.2
	03:50-03:55 HOUR	48.8 <sup>2/</sup>	47.4 ***	44.8 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:55-04:00 HOUR	48.9 <sup>2/</sup>	47.4 ***	47.4 <sup>2/</sup>	46.0 ***	1.4
	04:00-04:05 HOUR	48.8 <sup>2/</sup>	47.4 ***	44.8 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:05-04:10 HOUR	47.5 <sup>2/</sup>	47.4 ***	43.5 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:10-04:15 HOUR	47.8 <sup>2/</sup>	47.4 ***	43.8 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:15-04:20 HOUR	51.4 <sup>2/</sup>	47.4 ***	52.4 <sup>2/</sup>	46.0 ***	6.4
	04:20-04:25 HOUR	53.0 <sup>2/</sup>	47.4 ***	54.5 <sup>2/</sup>	46.0 ***	8.5
	04:25-04:30 HOUR	49.9 <sup>2/</sup>	47.4 ***	49.9 <sup>2/</sup>	46.0 ***	3.9
	04:30-04:35 HOUR	47.7 <sup>2/</sup>	47.4 ***	43.7 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:35-04:40 HOUR	48.0 <sup>2/</sup>	47.4 ***	44.0 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:40-04:45 HOUR	47.5 <sup>2/</sup>	47.4 ***	43.5 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>



DATE	TIME*	RESULT (dB(A))				
		L53-NOISE5 (47P 589629 1554464, 47P 589680 1554484)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 20, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0005	04:45-04:50 HOUR	47.4 <sup>2/</sup>	47.4 ***	43.4 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:50-04:55 HOUR	49.1 <sup>2/</sup>	47.4 ***	47.6 <sup>2/</sup>	46.0 ***	1.6
	04:55-05:00 HOUR	49.1 <sup>2/</sup>	47.4 ***	47.6 <sup>2/</sup>	46.0 ***	1.6
	05:00-05:05 HOUR	49.0 <sup>2/</sup>	47.4 ***	47.5 <sup>2/</sup>	46.0 ***	1.5
	05:05-05:10 HOUR	47.4 <sup>2/</sup>	47.4 ***	43.4 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:10-05:15 HOUR	49.8 <sup>2/</sup>	47.4 ***	48.3 <sup>2/</sup>	46.0 ***	2.3
	05:15-05:20 HOUR	48.9 <sup>2/</sup>	47.4 ***	47.4 <sup>2/</sup>	46.0 ***	1.4
	05:20-05:25 HOUR	48.7 <sup>2/</sup>	47.4 ***	44.7 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:25-05:30 HOUR	48.8 <sup>2/</sup>	47.4 ***	44.8 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:30-05:35 HOUR	48.0 <sup>2/</sup>	47.4 ***	44.0 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:35-05:40 HOUR	47.4 <sup>2/</sup>	47.4 ***	43.4 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:40-05:45 HOUR	48.1 <sup>2/</sup>	47.4 ***	44.1 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:45-05:50 HOUR	47.8 <sup>2/</sup>	47.4 ***	43.8 <sup>2/</sup>	46.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	05:50-05:55 HOUR	52.2 <sup>2/</sup>	47.4 ***	53.7 <sup>2/</sup>	46.0 ***	7.7
	05:55-06:00 HOUR	52.7 <sup>2/</sup>	47.4 ***	54.2 <sup>2/</sup>	46.0 ***	8.2
	<b>DAY TIME</b> <sup>1/</sup>					
	06:00-07:00 HOUR	52.1 <sup>1/</sup>	52.1 **	45.1 <sup>1/</sup>	50.5 **	NOT SIGNIFICANT <sup>3/</sup>
SEPTEMBER 20, 2022	<b>DAY TIME</b> <sup>1/</sup>					
T22AS905-0006	07:00-08:00 HOUR	55.0 <sup>1/</sup>	51.1 **	53.0 <sup>1/</sup>	49.2 **	3.8
	08:00-09:00 HOUR	54.6 <sup>1/</sup>	51.1 **	52.6 <sup>1/</sup>	49.2 **	3.4
	09:00-10:00 HOUR	53.2 <sup>1/</sup>	51.1 **	48.7 <sup>1/</sup>	49.2 **	NOT SIGNIFICANT <sup>3/</sup>
	10:00-11:00 HOUR	51.8 <sup>1/</sup>	51.1 **	44.8 <sup>1/</sup>	49.2 **	NOT SIGNIFICANT <sup>3/</sup>
	11:00-12:00 HOUR	53.8 <sup>1/</sup>	51.1 **	50.8 <sup>1/</sup>	49.2 **	1.6
	12:00-13:00 HOUR	52.3 <sup>1/</sup>	51.1 **	45.3 <sup>1/</sup>	49.2 **	NOT SIGNIFICANT <sup>3/</sup>
	13:00-14:00 HOUR	52.2 <sup>1/</sup>	51.1 **	45.2 <sup>1/</sup>	49.2 **	NOT SIGNIFICANT <sup>3/</sup>
	14:00-15:00 HOUR	52.4 <sup>1/</sup>	51.1 **	45.4 <sup>1/</sup>	49.2 **	NOT SIGNIFICANT <sup>3/</sup>
	15:00-16:00 HOUR	51.8 <sup>1/</sup>	51.1 **	44.8 <sup>1/</sup>	49.2 **	NOT SIGNIFICANT <sup>3/</sup>
	16:00-17:00 HOUR	51.6 <sup>1/</sup>	51.1 **	44.6 <sup>1/</sup>	49.2 **	NOT SIGNIFICANT <sup>3/</sup>
	17:00-18:00 HOUR	54.6 <sup>1/</sup>	51.1 **	52.6 <sup>1/</sup>	49.2 **	3.4
	18:00-19:00 HOUR	51.5 <sup>1/</sup>	51.1 **	44.5 <sup>1/</sup>	49.2 **	NOT SIGNIFICANT <sup>3/</sup>
	19:00-20:00 HOUR	54.4 <sup>1/</sup>	51.1 **	51.4 <sup>1/</sup>	49.2 **	2.2
	20:00-21:00 HOUR	51.1 <sup>1/</sup>	51.1 **	44.1 <sup>1/</sup>	49.2 **	NOT SIGNIFICANT <sup>3/</sup>
	21:00-22:00 HOUR	55.1 <sup>1/</sup>	51.1 **	53.1 <sup>1/</sup>	49.2 **	3.9
	<b>NIGHT TIME</b> <sup>2/</sup>					
	22:00-22:05 HOUR	46.0 <sup>2/</sup>	40.0 ***	47.5 <sup>2/</sup>	39.0 ***	8.5
	22:05-22:10 HOUR	44.0 <sup>2/</sup>	40.0 ***	45.0 <sup>2/</sup>	39.0 ***	6.0
	22:10-22:15 HOUR	44.0 <sup>2/</sup>	40.0 ***	45.0 <sup>2/</sup>	39.0 ***	6.0
	22:15-22:20 HOUR	42.8 <sup>2/</sup>	40.0 ***	42.8 <sup>2/</sup>	39.0 ***	3.8
	22:20-22:25 HOUR	44.1 <sup>2/</sup>	40.0 ***	45.1 <sup>2/</sup>	39.0 ***	6.1
	22:25-22:30 HOUR	46.3 <sup>2/</sup>	40.0 ***	47.8 <sup>2/</sup>	39.0 ***	8.8
	22:30-22:35 HOUR	41.6 <sup>2/</sup>	40.0 ***	40.1 <sup>2/</sup>	39.0 ***	1.1
	22:35-22:40 HOUR	40.4 <sup>2/</sup>	40.0 ***	36.4 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	22:40-22:45 HOUR	41.9 <sup>2/</sup>	40.0 ***	40.4 <sup>2/</sup>	39.0 ***	1.4
	22:45-22:50 HOUR	41.6 <sup>2/</sup>	40.0 ***	40.1 <sup>2/</sup>	39.0 ***	1.1
	22:50-22:55 HOUR	43.9 <sup>2/</sup>	40.0 ***	44.9 <sup>2/</sup>	39.0 ***	5.9

DATE	TIME*	RESULT (dB(A))				
		L53-NOISE5 (47P 589629 1554464, 47P 589680 1554484)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 20, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0006	22:55-23:00 HOUR	42.3 <sup>2/</sup>	40.0 ***	40.8 <sup>2/</sup>	39.0 ***	1.8
	23:00-23:05 HOUR	44.5 <sup>2/</sup>	40.0 ***	46.0 <sup>2/</sup>	39.0 ***	7.0
	23:05-23:10 HOUR	43.1 <sup>2/</sup>	40.0 ***	43.1 <sup>2/</sup>	39.0 ***	4.1
	23:10-23:15 HOUR	42.8 <sup>2/</sup>	40.0 ***	42.8 <sup>2/</sup>	39.0 ***	3.8
	23:15-23:20 HOUR	43.1 <sup>2/</sup>	40.0 ***	43.1 <sup>2/</sup>	39.0 ***	4.1
	23:20-23:25 HOUR	44.9 <sup>2/</sup>	40.0 ***	46.4 <sup>2/</sup>	39.0 ***	7.4
	23:25-23:30 HOUR	42.7 <sup>2/</sup>	40.0 ***	42.7 <sup>2/</sup>	39.0 ***	3.7
	23:30-23:35 HOUR	42.8 <sup>2/</sup>	40.0 ***	42.8 <sup>2/</sup>	39.0 ***	3.8
	23:35-23:40 HOUR	41.7 <sup>2/</sup>	40.0 ***	40.2 <sup>2/</sup>	39.0 ***	1.2
	23:40-23:45 HOUR	41.4 <sup>2/</sup>	40.0 ***	37.4 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:45-23:50 HOUR	41.4 <sup>2/</sup>	40.0 ***	37.4 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:50-23:55 HOUR	40.7 <sup>2/</sup>	40.0 ***	36.7 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	23:55-00:00 HOUR	41.8 <sup>2/</sup>	40.0 ***	40.3 <sup>2/</sup>	39.0 ***	1.3
SEPTEMBER 21, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0006	00:00-00:05 HOUR	42.1 <sup>2/</sup>	40.0 ***	40.6 <sup>2/</sup>	39.0 ***	1.6
	00:05-00:10 HOUR	45.5 <sup>2/</sup>	40.0 ***	47.0 <sup>2/</sup>	39.0 ***	8.0
	00:10-00:15 HOUR	44.9 <sup>2/</sup>	40.0 ***	46.4 <sup>2/</sup>	39.0 ***	7.4
	00:15-00:20 HOUR	43.3 <sup>2/</sup>	40.0 ***	43.3 <sup>2/</sup>	39.0 ***	4.3
	00:20-00:25 HOUR	42.0 <sup>2/</sup>	40.0 ***	40.5 <sup>2/</sup>	39.0 ***	1.5
	00:25-00:30 HOUR	44.4 <sup>2/</sup>	40.0 ***	45.4 <sup>2/</sup>	39.0 ***	6.4
	00:30-00:35 HOUR	40.5 <sup>2/</sup>	40.0 ***	36.5 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	00:35-00:40 HOUR	42.2 <sup>2/</sup>	40.0 ***	40.7 <sup>2/</sup>	39.0 ***	1.7
	00:40-00:45 HOUR	42.1 <sup>2/</sup>	40.0 ***	40.6 <sup>2/</sup>	39.0 ***	1.6
	00:45-00:50 HOUR	44.4 <sup>2/</sup>	40.0 ***	45.4 <sup>2/</sup>	39.0 ***	6.4
	00:50-00:55 HOUR	46.2 <sup>2/</sup>	40.0 ***	47.7 <sup>2/</sup>	39.0 ***	8.7
	00:55-01:00 HOUR	42.2 <sup>2/</sup>	40.0 ***	40.7 <sup>2/</sup>	39.0 ***	1.7
	01:00-01:05 HOUR	40.0 <sup>2/</sup>	40.0 ***	36.0 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:05-01:10 HOUR	44.6 <sup>2/</sup>	40.0 ***	46.1 <sup>2/</sup>	39.0 ***	7.1
	01:10-01:15 HOUR	40.6 <sup>2/</sup>	40.0 ***	36.6 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:15-01:20 HOUR	43.1 <sup>2/</sup>	40.0 ***	43.1 <sup>2/</sup>	39.0 ***	4.1
	01:20-01:25 HOUR	42.3 <sup>2/</sup>	40.0 ***	40.8 <sup>2/</sup>	39.0 ***	1.8
	01:25-01:30 HOUR	40.8 <sup>2/</sup>	40.0 ***	36.8 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:30-01:35 HOUR	40.6 <sup>2/</sup>	40.0 ***	36.6 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:35-01:40 HOUR	40.9 <sup>2/</sup>	40.0 ***	36.9 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:40-01:45 HOUR	41.4 <sup>2/</sup>	40.0 ***	37.4 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:45-01:50 HOUR	40.9 <sup>2/</sup>	40.0 ***	36.9 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:50-01:55 HOUR	41.3 <sup>2/</sup>	40.0 ***	37.3 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	01:55-02:00 HOUR	44.4 <sup>2/</sup>	40.0 ***	45.4 <sup>2/</sup>	39.0 ***	6.4
	02:00-02:05 HOUR	40.1 <sup>2/</sup>	40.0 ***	36.1 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:05-02:10 HOUR	40.6 <sup>2/</sup>	40.0 ***	36.6 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:10-02:15 HOUR	42.9 <sup>2/</sup>	40.0 ***	42.9 <sup>2/</sup>	39.0 ***	3.9
	02:15-02:20 HOUR	41.9 <sup>2/</sup>	40.0 ***	40.4 <sup>2/</sup>	39.0 ***	1.4
	02:20-02:25 HOUR	41.7 <sup>2/</sup>	40.0 ***	40.2 <sup>2/</sup>	39.0 ***	1.2
	02:25-02:30 HOUR	41.3 <sup>2/</sup>	40.0 ***	37.3 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:30-02:35 HOUR	42.4 <sup>2/</sup>	40.0 ***	40.9 <sup>2/</sup>	39.0 ***	1.9



DATE	TIME*	RESULT (dB(A))				
		L53-NOISE5 (47P 589629 1554464, 47P 589680 1554484)				
		SPECIFIC NOISE LEVEL	RESIDUAL NOISE LEVEL	SPECIFIC NOISE LEVEL (IMPROVE NOISE LEVEL)	BACKGROUND NOISE LEVEL	ANNOYANCE NOISE LEVEL
SEPTEMBER 21, 2022	<b>NIGHT TIME</b> <sup>2/</sup>					
T22AS905-0006	02:35-02:40 HOUR	41.8 <sup>2/</sup>	40.0 ***	40.3 <sup>2/</sup>	39.0 ***	1.3
	02:40-02:45 HOUR	43.5 <sup>2/</sup>	40.0 ***	44.5 <sup>2/</sup>	39.0 ***	5.5
	02:45-02:50 HOUR	41.4 <sup>2/</sup>	40.0 ***	37.4 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:50-02:55 HOUR	41.0 <sup>2/</sup>	40.0 ***	37.0 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	02:55-03:00 HOUR	42.6 <sup>2/</sup>	40.0 ***	42.6 <sup>2/</sup>	39.0 ***	3.6
	03:00-03:05 HOUR	40.5 <sup>2/</sup>	40.0 ***	36.5 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:05-03:10 HOUR	40.4 <sup>2/</sup>	40.0 ***	36.4 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:10-03:15 HOUR	40.8 <sup>2/</sup>	40.0 ***	36.8 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:15-03:20 HOUR	41.0 <sup>2/</sup>	40.0 ***	37.0 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:20-03:25 HOUR	46.2 <sup>2/</sup>	40.0 ***	47.7 <sup>2/</sup>	39.0 ***	8.7
	03:25-03:30 HOUR	42.8 <sup>2/</sup>	40.0 ***	42.8 <sup>2/</sup>	39.0 ***	3.8
	03:30-03:35 HOUR	41.7 <sup>2/</sup>	40.0 ***	40.2 <sup>2/</sup>	39.0 ***	1.2
	03:35-03:40 HOUR	40.5 <sup>2/</sup>	40.0 ***	36.5 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	03:40-03:45 HOUR	45.9 <sup>2/</sup>	40.0 ***	47.4 <sup>2/</sup>	39.0 ***	8.4
	03:45-03:50 HOUR	45.0 <sup>2/</sup>	40.0 ***	46.5 <sup>2/</sup>	39.0 ***	7.5
	03:50-03:55 HOUR	41.7 <sup>2/</sup>	40.0 ***	40.2 <sup>2/</sup>	39.0 ***	1.2
	03:55-04:00 HOUR	41.3 <sup>2/</sup>	40.0 ***	37.3 <sup>2/</sup>	39.0 ***	NOT SIGNIFICANT <sup>3/</sup>
	04:00-04:05 HOUR	43.1 <sup>2/</sup>	40.0 ***	43.1 <sup>2/</sup>	39.0 ***	4.1
	04:05-04:10 HOUR	41.6 <sup>2/</sup>	40.0 ***	40.1 <sup>2/</sup>	39.0 ***	1.1
	04:10-04:15 HOUR	44.8 <sup>2/</sup>	40.0 ***	46.3 <sup>2/</sup>	39.0 ***	7.3
	04:15-04:20 HOUR	43.7 <sup>2/</sup>	40.0 ***	44.7 <sup>2/</sup>	39.0 ***	5.7
	04:20-04:25 HOUR	42.5 <sup>2/</sup>	40.0 ***	42.5 <sup>2/</sup>	39.0 ***	3.5
	04:25-04:30 HOUR	43.6 <sup>2/</sup>	40.0 ***	44.6 <sup>2/</sup>	39.0 ***	5.6
	04:30-04:35 HOUR	42.3 <sup>2/</sup>	40.0 ***	40.8 <sup>2/</sup>	39.0 ***	1.8
	04:35-04:40 HOUR	41.9 <sup>2/</sup>	40.0 ***	40.4 <sup>2/</sup>	39.0 ***	1.4
	04:40-04:45 HOUR	42.1 <sup>2/</sup>	40.0 ***	40.6 <sup>2/</sup>	39.0 ***	1.6
	04:45-04:50 HOUR	45.7 <sup>2/</sup>	40.0 ***	47.2 <sup>2/</sup>	39.0 ***	8.2
	04:50-04:55 HOUR	43.2 <sup>2/</sup>	40.0 ***	43.2 <sup>2/</sup>	39.0 ***	4.2
	04:55-05:00 HOUR	45.3 <sup>2/</sup>	40.0 ***	46.8 <sup>2/</sup>	39.0 ***	7.8
	05:00-05:05 HOUR	45.3 <sup>2/</sup>	40.0 ***	46.8 <sup>2/</sup>	39.0 ***	7.8
	05:05-05:10 HOUR	43.1 <sup>2/</sup>	40.0 ***	43.1 <sup>2/</sup>	39.0 ***	4.1
	05:10-05:15 HOUR	43.3 <sup>2/</sup>	40.0 ***	43.3 <sup>2/</sup>	39.0 ***	4.3
	05:15-05:20 HOUR	43.4 <sup>2/</sup>	40.0 ***	43.4 <sup>2/</sup>	39.0 ***	4.4
	05:20-05:25 HOUR	43.8 <sup>2/</sup>	40.0 ***	44.8 <sup>2/</sup>	39.0 ***	5.8
	05:25-05:30 HOUR	44.5 <sup>2/</sup>	40.0 ***	46.0 <sup>2/</sup>	39.0 ***	7.0
	05:30-05:35 HOUR	45.6 <sup>2/</sup>	40.0 ***	47.1 <sup>2/</sup>	39.0 ***	8.1
	05:35-05:40 HOUR	44.9 <sup>2/</sup>	40.0 ***	46.4 <sup>2/</sup>	39.0 ***	7.4
	05:40-05:45 HOUR	44.8 <sup>2/</sup>	40.0 ***	46.3 <sup>2/</sup>	39.0 ***	7.3
	05:45-05:50 HOUR	45.5 <sup>2/</sup>	40.0 ***	47.0 <sup>2/</sup>	39.0 ***	8.0
	05:50-05:55 HOUR	45.2 <sup>2/</sup>	40.0 ***	46.7 <sup>2/</sup>	39.0 ***	7.7
	05:55-06:00 HOUR	43.6 <sup>2/</sup>	40.0 ***	44.6 <sup>2/</sup>	39.0 ***	5.6
	<b>DAY TIME</b> <sup>1/</sup>					
	06:00-07:00 HOUR	53.5 <sup>1/</sup>	51.1 **	49.0 <sup>1/</sup>	49.2 **	NOT SIGNIFICANT <sup>3/</sup>

- REMARK :**
- CASE 1 CALCULATION (DURING 06:00 TO 22:00 HOUR) : SPECIFIC NOISE LEVEL CONTINUOUSLY OCCUR AT LEAST 1 HOUR, MEASURING AS L<sub>Aeq</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>Aeq</sub> 5 minutes.
  - NOT SIGNIFICANT MEANS ANNOYING NOISE LEVEL IS LOWER THAN 0.
- \*\* PERCENTILE LEVEL 90 (L<sub>A90</sub>) IS MIDDLE VALUE OF 3 TIMES MEASURING. (15 MINUTES MEASURING DURING 06:00 TO 22:00 HOUR)  
AND RESIDUAL NOISE LEVEL (L<sub>Aeq</sub> 5 minutes) IS CHOSE AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.
- \*\*\* PERCENTILE LEVEL 90 (L<sub>A90</sub>) IS MIDDLE VALUE OF 3 TIMES MEASURING. (15 MINUTES MEASURING DURING 22:00 TO 06:00 HOUR)  
AND RESIDUAL NOISE LEVEL (L<sub>Aeq</sub> 5 minutes) IS CHOSE AT THE SAME TIME AS PERCENTILE LEVEL 90 ABOVE.

*Sila Banjongjairuk*  
 (MR. SILA BANJONGJAIRUK)  
 LABORATORY SUPERVISOR

SEPTEMBER 30, 2022

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## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II, 17TH FLOOR, UNIT 1702, PHAHOLYOTHIN ROAD, CHATUCHAK, BANGKOK 10900.  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruek@poesiam.com  
**SAMPLING SOURCE** : L53-SW6 (UTM WGS 84 ZONE 47P 591094E 1554742N)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : SEPTEMBER 19, 2022  
**SAMPLING TIME** : 14:05 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS NADNAPA KAMOLBOON

**RECEIVED DATE** : SEPTEMBER 20, 2022  
**ANALYTICAL DATE** : SEPTEMBER 20-29, 2022  
**REPORT NO.** : 2022-U077685  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS634-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			L53-SW6 T22AS634-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	7.2 (29°C)	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: 2550 B)	29	-
ELECTRICAL CONDUCTIVITY °	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: 2510 B)	390 (29°C)	0.1
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	100	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	303	25
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D AND 5520 F)	ND	3
<b>METALS</b>				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0073	0.0003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.121	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	0.002
COPPER °	mg/L Cu	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	< LOQ	0.002
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	0.520	0.002
TOTAL MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: 3112 B	ND	0.0001
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
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	6.59	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	0.003
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			L53-SW6 T22AS634-0001	
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	0.005
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	< LOQ	0.003
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			YELLOW/TURBID	
SEDIMENT			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.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.002 AND < 0.025 mg/L, ZINC ≥ 0.003 AND < 0.025 mg/L).

*Bhuchonk p.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

OCTOBER 5, 2022



## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II, 17TH FLOOR, UNIT 1702, PHAHOLYOTHIN ROAD, CHATUCHAK, BANGKOK 10900.  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruet@poesiam.com  
**SAMPLING SOURCE** : L53-SW7 (UTM WGS 84 ZONE 47P 591864E 1555139N)  
**SAMPLE TYPE** : SURFACE WATER  
**SAMPLING DATE** : SEPTEMBER 19, 2022  
**SAMPLING TIME** : 14:25 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS NADNAPA KAMOLBOON

**RECEIVED DATE** : SEPTEMBER 20, 2022  
**ANALYTICAL DATE** : SEPTEMBER 20-29, 2022  
**REPORT NO.** : 2022-U077686  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS634-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			L53-SW7 T22AS634-0002	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	7.1 (29°C)	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: 2550 B)	29	-
ELECTRICAL CONDUCTIVITY °	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: 2510 B)	348 (29°C)	0.1
SUSPENDED SOLIDS °	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	46.3	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	264	25
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D AND 5520 F)	ND	3
<b>METALS</b>				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0063	0.0003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.087	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	0.002
COPPER °	mg/L Cu	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.002
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	0.319	0.002
TOTAL MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: 3112 B	ND	0.0001
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
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	3.36	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	0.003
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			L53-SW7 T22AS634-0002	
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	0.005
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	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID 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.  
ND : NON-DETECTABLE.

*Bhuchonk p.*

(MR. BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

OCTOBER 5, 2022





น้ำใต้ดิน



## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakai@pruek@poesiam.com  
**SAMPLING SOURCE** : L53-GW4 (UTM WGS 84 ZONE 47P 592810E 1555851N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 19, 2022  
**SAMPLING TIME** : 14:40 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS NADNAPA KAMOLBOON

**RECEIVED DATE** : SEPTEMBER 20, 2022  
**ANALYTICAL DATE** : SEPTEMBER 20-29, 2022  
**REPORT NO.** : 2022-U077537  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22A5636-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			L53-GW4 T22A5636-0001	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	7.0 (30°C)	-
ELECTRICAL CONDUCTIVITY <sup>c</sup>	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: 2510 B)	1,018 (30°C)	0.1
CHLORIDE <sup>a</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: 4500-Cl <sup>-</sup> B)	192	2.0
SULPHATE <sup>c</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: 4500-SO <sub>4</sub> <sup>2-</sup> E)	18.6	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D AND 5520 F)	ND	3
METALS				
ARSENIC <sup>c</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0009	0.0003
BARIIUM <sup>c</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.121	0.003
CADMIUM <sup>c</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	0.002
COPPER <sup>c</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	0.034	0.002
IRON <sup>c</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	0.176	0.005
LEAD <sup>c</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	0.003
MANGANESE <sup>c</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	0.002
NICKEL <sup>c</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	< LOQ	0.005
SELENIUM <sup>c</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005
TOTAL CHROMIUM <sup>c</sup>	mg/L Cr	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005
TOTAL MERCURY <sup>b</sup>	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: 3112 B	ND	0.0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			L53-GW4 T22A5636-0001	
ZINC <sup>c</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	0.053	0.003
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR GREEN	

<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.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (NICKEL ≥ 0.005 AND < 0.050 mg/L).

*Bhuchonk P.*

(MR. BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

OCTOBER 5, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruek@poesiam.com  
**SAMPLING SOURCE** : L53-GW5 (UTM WGS 84 ZONE 47P 589723E 1554588N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 19, 2022  
**SAMPLING TIME** : 13:25 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS NADNAPA KAMOLBOON

**RECEIVED DATE** : SEPTEMBER 20, 2022  
**ANALYTICAL DATE** : SEPTEMBER 20-29, 2022  
**REPORT NO.** : 2022-U077538  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22A5636-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			L53-GW5 T22A5636-0002	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM4500-H° B)	7.6 (31°C)	-
ELECTRICAL CONDUCTIVITY °	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: 2510 B)	556 (31°C)	0.1
CHLORIDE °	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: 4500-Cl <sup>-</sup> B)	15.7	2.0
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: 4500-SO <sub>4</sub> <sup>2-</sup> E)	23.2	0.3
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D AND 5520 F)	ND	3
<b>METALS</b>				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0008	0.0003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.036	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	0.002
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	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	ND	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	0.003
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	0.074	0.002
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	0.005
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005
TOTAL CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005
TOTAL MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: 3112 B	ND	0.0001

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• REPORTED ANALYSIS REFERS TO SUBMITTED SAMPLE ONLY.

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			L53-GW5 T22A5636-0002	
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	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.  
ND : NON-DETECTABLE.  
< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.002 AND < 0.025 mg/L).

*Bhuchonk p.*  
(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

OCTOBER 5, 2022

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2022-U077538

## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakairpruek@poesiam.com  
**SAMPLING SOURCE** : MWL53D-1 (UTM WGS 84 ZONE 47P 591161E 1555398N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 12:10 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS KEWALEE SUKHAREE

**RECEIVED DATE** : SEPTEMBER 20, 2022  
**ANALYTICAL DATE** : SEPTEMBER 20 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078252  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS706-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			MWL53D-1 T22AS706-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H° B)	7.5 (31°C)	-
ELECTRICAL CONDUCTIVITY °	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: 2510 B)	472 (31°C)	0.1
CHLORIDE °	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: 4500-Cl <sup>-</sup> B)	22.5	2.0
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: 4500-SO <sub>4</sub> <sup>2-</sup> E)	109	0.3
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D AND 5520 F)	ND	3
<b>METALS</b>				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0057	0.0003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.097	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	0.002
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	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	2.51	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	0.003
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	0.164	0.002
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	0.005
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005
TOTAL CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005
TOTAL MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: 3112 B	ND	0.0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			MWL53D-1 T22AS706-0001	
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	< LOQ	0.003
<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.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.002 AND < 0.025 mg/L, ZINC ≥ 0.003 AND < 0.025 mg/L).

*Bhuchonk P.*  
(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

OCTOBER 5, 2022





## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakai@pruek@poesiam.com  
**SAMPLING SOURCE** : MWL53D-2 (UTM WGS 84 ZONE 47P 591185E 1555325N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 12:40 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS KEWALEE SUKHAREE

**RECEIVED DATE** : SEPTEMBER 20, 2022  
**ANALYTICAL DATE** : SEPTEMBER 20 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078253  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS706-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			MWL53D-2 T22AS706-0002	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM4500-H° B)	7.3 (31°C)	-
ELECTRICAL CONDUCTIVITY °	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: 2510 B)	2,290 (31°C)	0.1
CHLORIDE <sup>a</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: 4500-Cl <sup>-</sup> B)	167	2.0
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: 4500-SO <sub>4</sub> <sup>2-</sup> E)	158	0.3
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D AND 5520 F)	ND	3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0160	0.0003
BARIIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.195	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	0.002
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	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	0.465	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	0.003
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	1.02	0.002
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	0.005
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005
TOTAL CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005
TOTAL MERCURY <sup>b</sup>	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: 3112 B	ND	0.0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			MWL53D-2 T22AS706-0002	
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	< LOQ	0.003
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID GREY	

<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.

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.002 AND < 0.025 mg/L, ZINC ≥ 0.003 AND < 0.025 mg/L).

*Bhuchonk P.*

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

OCTOBER 5, 2022





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
PH °	-	ELECTROMETRIC METHOD AT SITE (SM4500-4+ B)	7.4 (32°C)	
ELECTRICAL CONDUCTIVITY °	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: 2510 B)	1645 (32°C)	0.1
CHLORIDE °	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: 4500-Cl <sup>-</sup> B)	196	2.0
SULPHATE °	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: 4500-SO <sub>4</sub> <sup>2-</sup> E)	165	0.3
HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D AND 5520 F)	ND	3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0024	0.0003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.035	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	0.002
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	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	0.455	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	0.003
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	0.104	0.002
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	0.005
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005
TOTAL CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005
TOTAL MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HBM.002 (COLD VAPOR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: 3112 B	ND	0.0001

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakajpruek@poe.siam.com  
**SAMPLE SOURCE** : MWLS3D-3 (UTM WGS 84 ZONE 47P 590909E 1555376N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLE DATE** : SEPTEMBER 20, 2022  
**SAMPLE TIME** : 12:00 HOUR  
**SAMPLE METHOD °** : SUBMERGIBLE PUMP  
**SAMPLING BY °** : MR KRIDSANAPONG NAMTHIP  
ANALYZED BY : MISS KEWALEE SUKHAREE

## ANALYSIS REPORT

(MR BHUCHONK PANICHLEKUMPI)  
LABORATORY SUPERVISOR  
Bhuchonk P.  
OCTOBER 5, 2022

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.  
< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.002 AND < 0.025 mg/L).

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
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	0.003
SAMPLE CONDITION		WATER'S COLOUR/TURBID		
		SEDIMENT		
		YELLOW/CLEAR BROWN		



### ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakai@pruek@poesiam.com  
**SAMPLING SOURCE** : MWL53D-4 (UTM WGS 84 ZONE 47P 591210E 1555355N)  
**SAMPLE TYPE** : GROUNDWATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 12:25 HOUR  
**SAMPLING METHOD** : SUBMERSIBLE PUMP  
**SAMPLING BY** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS KEWALEE SUKHAREE

**RECEIVED DATE** : SEPTEMBER 20, 2022  
**ANALYTICAL DATE** : SEPTEMBER 20 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078255  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS706-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			MWL53D-4 T22AS706-0004	
pH <sup>c</sup>	-	ELECTROMETRIC METHOD AT SITE (SM4500-H <sup>+</sup> B)	8.2 (31°C)	-
ELECTRICAL CONDUCTIVITY <sup>c</sup>	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: 2510 B)	5,320 (31°C)	0.1
CHLORIDE <sup>a</sup>	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: 4500-Cl <sup>-</sup> B)	3,376	2.0
SULPHATE <sup>c</sup>	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: 4500-SO <sub>4</sub> <sup>2-</sup> E)	158	0.3
TOTAL PETROLEUM HYDROCARBONS <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D AND 5520 F)	ND	3
<b>METALS</b>				
ARSENIC <sup>c</sup>	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0742	0.0003
BARIIUM <sup>c</sup>	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.234	0.003
CADMIUM <sup>c</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	0.002
COPPER <sup>c</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	0.002
IRON <sup>c</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	0.588	0.005
LEAD <sup>c</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	0.003
MANGANESE <sup>c</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	0.158	0.002
NICKEL <sup>c</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	0.005
SELENIUM <sup>c</sup>	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005
TOTAL CHROMIUM <sup>c</sup>	mg/L Cr	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005
TOTAL MERCURY <sup>b</sup>	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: 3112 B	< LOQ	0.0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			MWL53D-4 T22AS706-0004	
ZINC <sup>c</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	0.003
<b>SAMPLE CONDITION</b>			YELLOW/CLEAR BROWN	
WATER'S COLOUR/TURBID SEDIMENT				

<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.

ND : NON-DETECTABLE.

&lt; LOQ : &lt; LIMIT OF QUANTITATION (COPPER ≥ 0.002 AND &lt; 0.025 mg/L, LEAD ≥ 0.003 AND &lt; 0.100 mg/L, TOTAL MERCURY ≥ 0.0001 AND &lt; 0.0005 mg/L).



(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR

OCTOBER 5, 2022



น้ำจากกระบวนการผลิต

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## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruek@poesiam.com  
**SAMPLING SOURCE** : PW-L53D-2 (UTM WGS 84 ZONE 47P 591182E 1555358N)  
**SAMPLE TYPE** : PRODUCED WATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 11:50 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA

**RECEIVED DATE** : SEPTEMBER 21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078286  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS705-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			PW-L53D-2 T22AS705-0001	
pH	-	ELECTROMETRIC METHOD (SM: 4500-H <sup>+</sup> B)	8.2 (25°C)	-
TEMPERATURE	°C	THERMOMETER AT SITE (SM: 2550 B)	47	-
ELECTRICAL CONDUCTIVITY	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD (SM: 2510 B)	1,922 (25°C)	0.1
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (SM: 2520 B)	0.9	-
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	44.3	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	1,095	25
CHLORIDE	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: 4500-Cl <sup>-</sup> B)	72.4	2.0
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
TOTAL PETROLEUM HYDROCARBONS	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D AND 5520 F)	35	3
<b>METALS</b>				
ARSENIC	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0004	0.0003
BARIUM	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.403	0.005
CADMIUM	mg/L Cd	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.002
COPPER	mg/L Cu	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005
IRON	mg/L Fe	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	1.81	0.005
LEAD	mg/L Pb	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.015
MANGANESE	mg/L Mn	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	0.055	0.004
MERCURY	mg/L Hg	COLD VAPOUR AAS METHOD (SM: 3112 B)	ND	0.0005
NICKEL	mg/L Ni	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005
SELENIUM	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			PW-L53D-2 T22AS705-0001	
TOTAL CHROMIUM	mg/L Cr	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.007
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	< LOQ	0.003
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			YELLOW/TURBID	
SEDIMENT			BROWN	

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.  
< LOQ : < LIMIT OF QUANTITATION (ZINC ≥ 0.003 AND < 0.050 mg/L).

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

OCTOBER 6, 2022

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2022-U078286

## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruek@poesiam.com  
**SAMPLING SOURCE** : PW-L53DC-ST-1 (UTM WGS 84 ZONE 47P 590995E 1555365N)  
**SAMPLE TYPE** : PRODUCED WATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 11:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA

**RECEIVED DATE** : SEPTEMBER 21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078287  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS705-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			PW-L53DC-ST-1 T22AS705-0002	
pH	-	ELECTROMETRIC METHOD (SM: 4500-H <sup>+</sup> B)	8.2 (25°C)	-
TEMPERATURE	°C	THERMOMETER AT SITE (SM: 2550 B)	45	-
ELECTRICAL CONDUCTIVITY	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD (SM: 2510 B)	1,510 (25°C)	0.1
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (SM: 2520 B)	0.7	-
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	338	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	914	25
CHLORIDE	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: 4500-Cl <sup>-</sup> B)	72.9	2.0
SULPHATE	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	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D AND 5520 F)	258	3
<b>METALS</b>				
ARSENIC	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0028	0.0003
BARIUM	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.193	0.005
CADMIUM	mg/L Cd	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.002
COPPER	mg/L Cu	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	< LOQ	0.005
IRON	mg/L Fe	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	0.385	0.005
LEAD	mg/L Pb	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.015
MANGANESE	mg/L Mn	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	< LOQ	0.004
MERCURY	mg/L Hg	COLD VAPOUR AAS METHOD (SM: 3112 B)	ND	0.0005
NICKEL	mg/L Ni	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005
SELENIUM	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			PW-L53DC-ST-1 T22AS705-0002	
TOTAL CHROMIUM	mg/L Cr	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	< LOQ	0.007
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.IW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	0.095	0.003
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			YELLOW/TURBID	
SEDIMENT			BROWN	

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.  
< LOQ : < LIMIT OF QUANTITATION (COPPER ≥ 0.005 AND < 0.050 mg/L, MANGANESE ≥ 0.004 AND < 0.050 mg/L, TOTAL CHROMIUM ≥ 0.007 AND < 0.100 mg/L).

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHA)  
LABORATORY SUPERVISOR

OCTOBER 6, 2022

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## ANALYSIS REPORT

**CUSTOMER NAME** : PAN ORIENT ENERGY (SIAM) LIMITED  
**ADDRESS** : 555 RASA TOWER II 17TH FLOOR UNIT 1702 PHAHONYOTHIN ROAD, CHATUCHAK CHATUCHAK BANGKOK 10900  
**CONTACT INFORMATION** : TEL : 0 2937 1138-40 e-mail : prakaipruek@poesiam.com  
**SAMPLING SOURCE** : PW-L53-DEXT (UTM WGS 84 ZONE 47P 591117E 1555341N)  
**SAMPLE TYPE** : PRODUCED WATER  
**SAMPLING DATE** : SEPTEMBER 20, 2022  
**SAMPLING TIME** : 11:40 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR KRIDSANAPONG NAMTHIP  
**ANALYZED BY** : MISS CHOMTHANAN APHIPATPAPHA

**RECEIVED DATE** : SEPTEMBER 21, 2022  
**ANALYTICAL DATE** : SEPTEMBER 21 - OCTOBER 1, 2022  
**REPORT NO.** : 2022-U078288  
**WORK NO.** : 2022-006174  
**ANALYSIS NO.** : T22AS705-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			PW-L53-DEXT T22AS705-0003	
pH	-	ELECTROMETRIC METHOD (SM: 4500-H <sup>+</sup> B)	7.6 (25°C)	-
TEMPERATURE	°C	THERMOMETER AT SITE (SM: 2550 B)	46	-
ELECTRICAL CONDUCTIVITY	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD (SM: 2510 B)	3,070 (25°C)	0.1
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (SM: 2520 B)	1.6	-
SUSPENDED SOLIDS	mg/L	SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: 2540 D)	8.1	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: 2540 C)	2,071	25
CHLORIDE	mg/L Cl <sup>-</sup>	ARGENTOMETRIC METHOD (SM: 4500-Cl <sup>-</sup> B)	83.2	2.0
SULPHATE	mg/L SO <sub>4</sub> <sup>2-</sup>	TURBIDIMETRIC METHOD (SM: 4500-SO <sub>4</sub> <sup>2-</sup> E)	19.8	0.3
TOTAL PETROLEUM HYDROCARBONS	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D AND 5520 F)	23	3
<b>METALS</b>				
ARSENIC	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	0.0010	0.0003
BARIUM	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: 3030 F AND 3120 B)	0.857	0.005
CADMIUM	mg/L Cd	IN-HOUSE METHOD: UAE.TP.IV.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.002
COPPER	mg/L Cu	IN-HOUSE METHOD: UAE.TP.IV.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005
IRON	mg/L Fe	IN-HOUSE METHOD: UAE.TP.IV.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	< LOQ	0.005
LEAD	mg/L Pb	IN-HOUSE METHOD: UAE.TP.IV.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.015
MANGANESE	mg/L Mn	IN-HOUSE METHOD: UAE.TP.IV.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.004
MERCURY	mg/L Hg	COLD VAPOUR AAS METHOD (SM: 3112 B)	0.0007	0.0005
NICKEL	mg/L Ni	IN-HOUSE METHOD: UAE.TP.IV.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.005
SELENIUM	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: 3114 C)	ND	0.0005

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			PW-L53-DEXT T22AS705-0003	
TOTAL CHROMIUM	mg/L Cr	IN-HOUSE METHOD: UAE.TP.IV.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	ND	0.007
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.IV.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: 3030 E AND 3111 B	< LOQ	0.003
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			YELLOW/CLEAR	
SEDIMENT			BROWN	

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.  
< LOQ : < LIMIT OF QUANTITATION (IRON ≥ 0.005 AND < 0.100 mg/L, ZINC ≥ 0.003 AND < 0.050 mg/L).

*Benjawan V.*

(MISS BENJAWAN VIRIYOTHAI)  
LABORATORY SUPERVISOR

OCTOBER 6, 2022

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2022-U078288