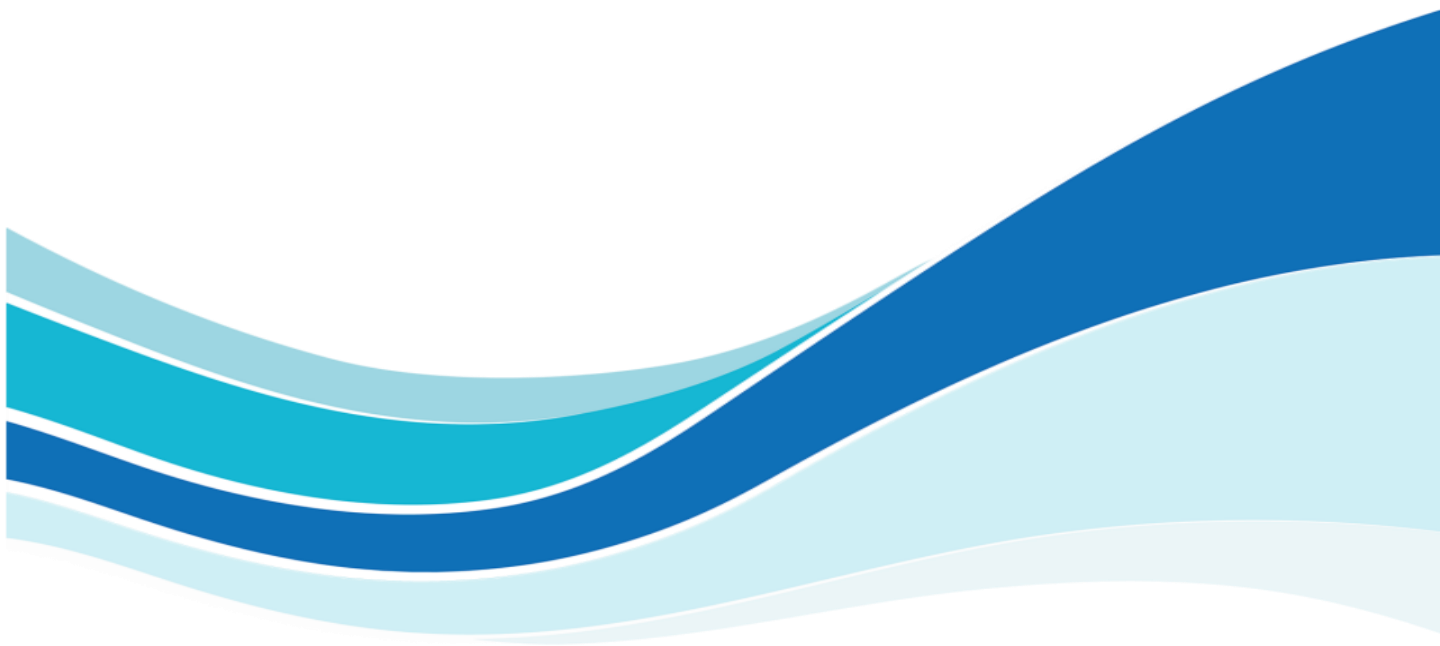
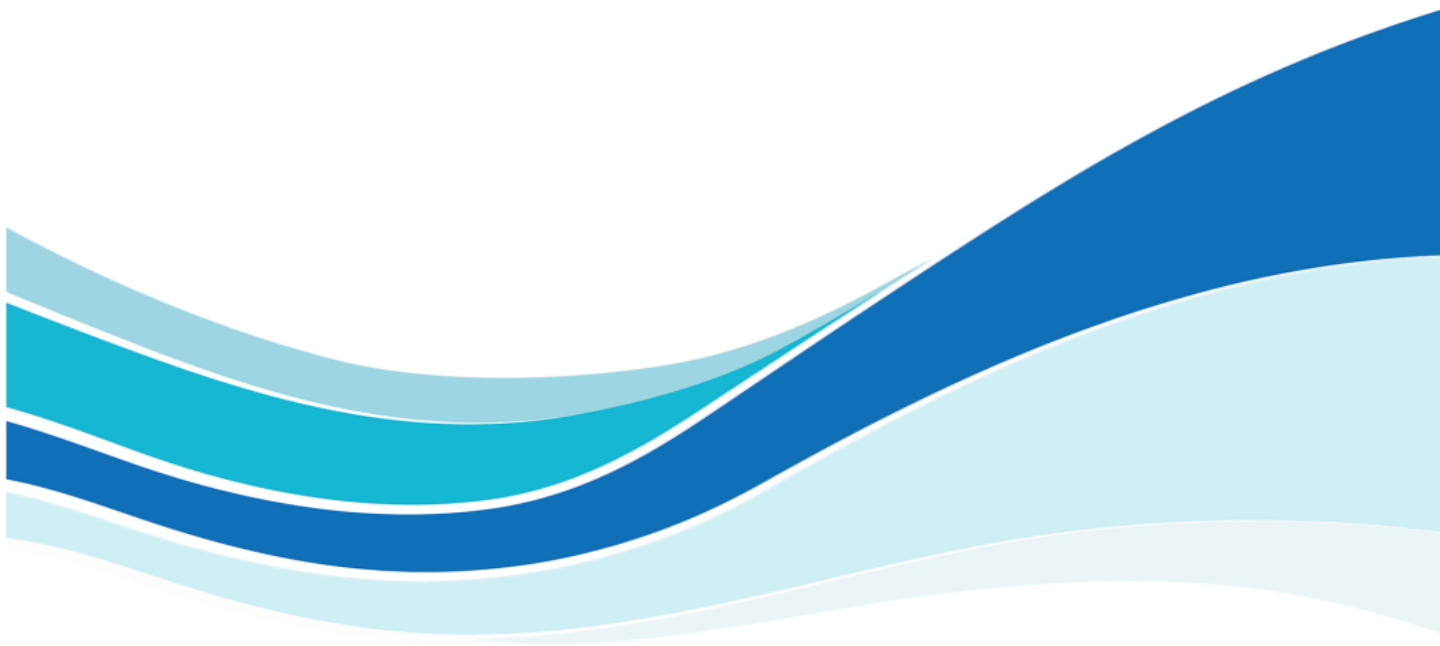


ภาคผนวกที่ 39
ใบรายงานผลการตรวจวัดคุณภาพสิ่งแวดล้อม



ภาคผนวกที่ 39-1
คุณภาพอากาศ



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้านแดง แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS1-A1 วัดหนองกร่าง หมู่ 3 ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR AUSADAWUT YONSIRI
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : MARCH 23, 2023
ANALYTICAL DATE : MARCH 23-27, 2023
REPORT NO. : 2023-U023319
WORK NO. : 2019-002414
ANALYSIS NO. : T23AF184-0001 - T23AF184-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			KS1-A1 วัดหนองกร่าง		
			*	**	***
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T23AF184-0001	T23AF184-0002	T23AF184-0003
			0.124	0.065	0.076
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)			
			0.113	0.052	0.063
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 10:00 HOUR ON MARCH 18, 2023 TO 10:00 HOUR ON MARCH 19, 2023.
** : SAMPLING FROM 10:00 HOUR ON MARCH 19, 2023 TO 10:00 HOUR ON MARCH 20, 2023.
*** : SAMPLING FROM 10:00 HOUR ON MARCH 20, 2023 TO 10:00 HOUR ON MARCH 21, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

APRIL 3, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้านแดง แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS2-A1 วัดไร่ขิง หมู่ 7 ตำบลกระดังงา อำเภอกำแพงแสน จังหวัดนครปฐม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR AUSADAWUT YONSIRI
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : MARCH 23, 2023
ANALYTICAL DATE : MARCH 23-27, 2023
REPORT NO. : 2023-U023399
WORK NO. : 2019-002414
ANALYSIS NO. : T23AF184-0004 - T23AF184-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			KS2-A1 วัดไร่ขิง		
			*	**	***
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T23AF184-0004	T23AF184-0005	T23AF184-0006
			0.093	0.105	0.089
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)			
			0.069	0.043	0.038
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 10:30 HOUR ON MARCH 18, 2023 TO 10:30 HOUR ON MARCH 19, 2023.
** : SAMPLING FROM 10:30 HOUR ON MARCH 19, 2023 TO 10:30 HOUR ON MARCH 20, 2023.
*** : SAMPLING FROM 10:30 HOUR ON MARCH 20, 2023 TO 10:30 HOUR ON MARCH 21, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

APRIL 3, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS2-A2 บ้านทุ่งบัว หมู่ 6 ตำบลทุ่งบัว อำเภอกำแพงแสน จังหวัดนครปฐม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR AUSADAWUT YONSIRI
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : MARCH 23, 2023
ANALYTICAL DATE : MARCH 23-27, 2023
REPORT NO. : 2023-U023400
WORK NO. : 2019-002414
ANALYSIS NO. : T23AF184-0007 - T23AF184-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			KS2-A2 บ้านทุ่งบัว		
			* T23AF184-0007	** T23AF184-0008	*** T23AF184-0009
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.061	0.079	0.052
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.049	0.044	0.042
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 09:30 HOUR ON MARCH 18, 2023 TO 09:30 HOUR ON MARCH 19, 2023.
** : SAMPLING FROM 09:30 HOUR ON MARCH 19, 2023 TO 09:30 HOUR ON MARCH 20, 2023.
*** : SAMPLING FROM 09:30 HOUR ON MARCH 20, 2023 TO 09:30 HOUR ON MARCH 21, 2023.


(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

APRIL 3, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS2-A3 วัดนิยมธรรมวนาราม หมู่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR AUSADAWUT YONSIRI
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : MARCH 23, 2023
ANALYTICAL DATE : MARCH 23-27, 2023
REPORT NO. : 2023-U023401
WORK NO. : 2019-002414
ANALYSIS NO. : T23AF184-0010 - T23AF184-0012

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			KS2-A3 วัดนิยมธรรมวนาราม		
			* T23AF184-0010	** T23AF184-0011	*** T23AF184-0012
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.103	0.094	0.096
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.057	0.049	0.059
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 MARCH 18, 2023 TO 09:00 HOUR ON MARCH 19, 2023.
** : SAMPLING FROM 09:00 HOUR ON MARCH 19, 2023 TO 09:00 HOUR ON MARCH 20, 2023.
*** : SAMPLING FROM 09:00 HOUR ON MARCH 20, 2023 TO 09:00 HOUR ON MARCH 21, 2023.


(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

APRIL 3, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022137
MEASURING METHOD : UV FLUORESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0001 - T23AF184-0003

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023 T23AF184-0001	MARCH 19-20, 2023 T23AF184-0002	MARCH 20-21, 2023 T23AF184-0003
08:00-09:00 HOUR	0.0036	0.0030	0.0035
09:00-10:00 HOUR	0.0030	0.0030	0.0030
10:00-11:00 HOUR	0.0024	0.0025	0.0026
11:00-12:00 HOUR	0.0022	0.0026	0.0025
12:00-13:00 HOUR	0.0025	0.0025	0.0024
13:00-14:00 HOUR	0.0028	0.0028	0.0028
14:00-15:00 HOUR	0.0028	0.0031	0.0029
15:00-16:00 HOUR	0.0029	0.0033	0.0032
16:00-17:00 HOUR	0.0030	0.0039	0.0031
17:00-18:00 HOUR	0.0032	0.0041	0.0034
18:00-19:00 HOUR	0.0034	0.0045	0.0035
19:00-20:00 HOUR	0.0032	0.0042	0.0037
20:00-21:00 HOUR	0.0031	0.0042	0.0034
21:00-22:00 HOUR	0.0028	0.0042	0.0029
22:00-23:00 HOUR	0.0029	0.0045	0.0024
23:00-00:00 HOUR	0.0031	0.0049	0.0020
00:00-01:00 HOUR	0.0031	0.0051	0.0019
01:00-02:00 HOUR	0.0031	0.0049	0.0018
02:00-03:00 HOUR	0.0028	0.0044	0.0022
03:00-04:00 HOUR	0.0031	0.0043	0.0025
04:00-05:00 HOUR	0.0035	0.0046	0.0032
05:00-06:00 HOUR	0.0037	0.0045	0.0034
06:00-07:00 HOUR	0.0034	0.0041	0.0039
07:00-08:00 HOUR	0.0032	0.0036	0.0036
AVERAGE 24 HOUR	0.0030	0.0039	0.0029


(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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1/1



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A1 : วัดโพธิ์เงินชัย หมู่ที่ 7 ตำบลกระดี่ อำเภอกำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022138
MEASURING METHOD : UV FLUORESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0004 - T23AF184-0006

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	KS2-A1 : วัดโพธิ์เงินชัย หมู่ที่ 7 ตำบลกระดี่ อำเภอกำแพงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023 T23AF184-0004	MARCH 19-20, 2023 T23AF184-0005	MARCH 20-21, 2023 T23AF184-0006
08:00-09:00 HOUR	0.0029	0.0025	0.0032
09:00-10:00 HOUR	0.0025	0.0021	0.0031
10:00-11:00 HOUR	0.0020	0.0017	0.0028
11:00-12:00 HOUR	0.0019	0.0018	0.0027
12:00-13:00 HOUR	0.0018	0.0019	0.0025
13:00-14:00 HOUR	0.0021	0.0022	0.0026
14:00-15:00 HOUR	0.0026	0.0028	0.0034
15:00-16:00 HOUR	0.0032	0.0033	0.0038
16:00-17:00 HOUR	0.0036	0.0040	0.0044
17:00-18:00 HOUR	0.0037	0.0045	0.0041
18:00-19:00 HOUR	0.0035	0.0047	0.0049
19:00-20:00 HOUR	0.0034	0.0043	0.0052
20:00-21:00 HOUR	0.0032	0.0037	0.0054
21:00-22:00 HOUR	0.0031	0.0033	0.0049
22:00-23:00 HOUR	0.0026	0.0031	0.0048
23:00-00:00 HOUR	0.0023	0.0027	0.0050
00:00-01:00 HOUR	0.0021	0.0026	0.0050
01:00-02:00 HOUR	0.0022	0.0023	0.0050
02:00-03:00 HOUR	0.0025	0.0027	0.0051
03:00-04:00 HOUR	0.0030	0.0031	0.0048
04:00-05:00 HOUR	0.0037	0.0039	0.0046
05:00-06:00 HOUR	0.0042	0.0039	0.0045
06:00-07:00 HOUR	0.0039	0.0039	0.0047
07:00-08:00 HOUR	0.0034	0.0034	0.0043
AVERAGE 24 HOUR	0.0029	0.0031	0.0042


(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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1/1



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอกำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022139
MEASURING METHOD : UV FLUORESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0007 - T23AF184-0009

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอกำแพงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023 T23AF184-0007	MARCH 19-20, 2023 T23AF184-0008	MARCH 20-21, 2023 T23AF184-0009
08:00-09:00 HOUR	0.0036	0.0032	0.0034
09:00-10:00 HOUR	0.0032	0.0028	0.0029
10:00-11:00 HOUR	0.0031	0.0024	0.0025
11:00-12:00 HOUR	0.0032	0.0026	0.0026
12:00-13:00 HOUR	0.0032	0.0027	0.0023
13:00-14:00 HOUR	0.0035	0.0032	0.0025
14:00-15:00 HOUR	0.0037	0.0033	0.0028
15:00-16:00 HOUR	0.0040	0.0035	0.0034
16:00-17:00 HOUR	0.0040	0.0035	0.0036
17:00-18:00 HOUR	0.0044	0.0039	0.0039
18:00-19:00 HOUR	0.0045	0.0042	0.0036
19:00-20:00 HOUR	0.0047	0.0042	0.0036
20:00-21:00 HOUR	0.0043	0.0045	0.0035
21:00-22:00 HOUR	0.0044	0.0045	0.0037
22:00-23:00 HOUR	0.0042	0.0048	0.0042
23:00-00:00 HOUR	0.0041	0.0050	0.0041
00:00-01:00 HOUR	0.0038	0.0050	0.0041
01:00-02:00 HOUR	0.0034	0.0051	0.0041
02:00-03:00 HOUR	0.0030	0.0044	0.0041
03:00-04:00 HOUR	0.0029	0.0039	0.0043
04:00-05:00 HOUR	0.0031	0.0039	0.0042
05:00-06:00 HOUR	0.0036	0.0039	0.0042
06:00-07:00 HOUR	0.0037	0.0042	0.0042
07:00-08:00 HOUR	0.0038	0.0038	0.0041
AVERAGE 24 HOUR	0.0037	0.0039	0.0036


(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A3 : วัดนิยมธรรมานาราม หมู่ที่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022140
MEASURING METHOD : UV FLUORESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0010 - T23AF184-0012

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	KS2-A3 : วัดนิยมธรรมานาราม หมู่ที่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023 T23AF184-0010	MARCH 19-20, 2023 T23AF184-0011	MARCH 20-21, 2023 T23AF184-0012
08:00-09:00 HOUR	0.0042	0.0026	0.0030
09:00-10:00 HOUR	0.0031	0.0023	0.0027
10:00-11:00 HOUR	0.0022	0.0021	0.0026
11:00-12:00 HOUR	0.0019	0.0018	0.0028
12:00-13:00 HOUR	0.0018	0.0017	0.0027
13:00-14:00 HOUR	0.0021	0.0019	0.0029
14:00-15:00 HOUR	0.0027	0.0024	0.0033
15:00-16:00 HOUR	0.0035	0.0030	0.0034
16:00-17:00 HOUR	0.0037	0.0032	0.0033
17:00-18:00 HOUR	0.0038	0.0036	0.0031
18:00-19:00 HOUR	0.0035	0.0037	0.0035
19:00-20:00 HOUR	0.0034	0.0039	0.0034
20:00-21:00 HOUR	0.0030	0.0036	0.0035
21:00-22:00 HOUR	0.0027	0.0036	0.0036
22:00-23:00 HOUR	0.0025	0.0034	0.0037
23:00-00:00 HOUR	0.0023	0.0029	0.0040
00:00-01:00 HOUR	0.0022	0.0026	0.0040
01:00-02:00 HOUR	0.0021	0.0020	0.0040
02:00-03:00 HOUR	0.0023	0.0023	0.0036
03:00-04:00 HOUR	0.0026	0.0026	0.0035
04:00-05:00 HOUR	0.0030	0.0031	0.0038
05:00-06:00 HOUR	0.0033	0.0037	0.0043
06:00-07:00 HOUR	0.0033	0.0039	0.0042
07:00-08:00 HOUR	0.0030	0.0038	0.0037
AVERAGE 24 HOUR	0.0028	0.0029	0.0034


(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้านแพง แผลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022133
MEASURING METHOD : CHEMILUMINESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0001 - T23AF184-0003

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023 T23AF184-0001	MARCH 19-20, 2023 T23AF184-0002	MARCH 20-21, 2023 T23AF184-0003
08:00-09:00 HOUR	0.0070	0.0065	0.0073
09:00-10:00 HOUR	0.0062	0.0057	0.0068
10:00-11:00 HOUR	0.0056	0.0054	0.0064
11:00-12:00 HOUR	0.0053	0.0055	0.0062
12:00-13:00 HOUR	0.0054	0.0059	0.0062
13:00-14:00 HOUR	0.0054	0.0063	0.0064
14:00-15:00 HOUR	0.0058	0.0066	0.0068
15:00-16:00 HOUR	0.0062	0.0069	0.0075
16:00-17:00 HOUR	0.0068	0.0070	0.0081
17:00-18:00 HOUR	0.0071	0.0071	0.0083
18:00-19:00 HOUR	0.0073	0.0070	0.0082
19:00-20:00 HOUR	0.0073	0.0070	0.0080
20:00-21:00 HOUR	0.0074	0.0068	0.0078
21:00-22:00 HOUR	0.0073	0.0066	0.0074
22:00-23:00 HOUR	0.0071	0.0061	0.0071
23:00-00:00 HOUR	0.0069	0.0059	0.0070
00:00-01:00 HOUR	0.0069	0.0059	0.0073
01:00-02:00 HOUR	0.0069	0.0062	0.0077
02:00-03:00 HOUR	0.0069	0.0063	0.0080
03:00-04:00 HOUR	0.0069	0.0065	0.0080
04:00-05:00 HOUR	0.0071	0.0069	0.0078
05:00-06:00 HOUR	0.0075	0.0074	0.0078
06:00-07:00 HOUR	0.0076	0.0077	0.0077
07:00-08:00 HOUR	0.0073	0.0078	0.0074


(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้านแพง แผลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A1 : วัดไผ่จีน หมู่ที่ 7 ตำบลกระดี่ อำเภอท่าแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022134
MEASURING METHOD : CHEMILUMINESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0004 - T23AF184-0006

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	KS2-A1 : วัดไผ่จีน หมู่ที่ 7 ตำบลกระดี่ อำเภอท่าแพงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023 T23AF184-0004	MARCH 19-20, 2023 T23AF184-0005	MARCH 20-21, 2023 T23AF184-0006
08:00-09:00 HOUR	0.0066	0.0072	0.0067
09:00-10:00 HOUR	0.0060	0.0067	0.0064
10:00-11:00 HOUR	0.0057	0.0062	0.0062
11:00-12:00 HOUR	0.0057	0.0060	0.0062
12:00-13:00 HOUR	0.0060	0.0061	0.0063
13:00-14:00 HOUR	0.0063	0.0062	0.0065
14:00-15:00 HOUR	0.0067	0.0066	0.0068
15:00-16:00 HOUR	0.0073	0.0067	0.0072
16:00-17:00 HOUR	0.0079	0.0069	0.0076
17:00-18:00 HOUR	0.0082	0.0070	0.0079
18:00-19:00 HOUR	0.0081	0.0073	0.0080
19:00-20:00 HOUR	0.0079	0.0076	0.0080
20:00-21:00 HOUR	0.0076	0.0079	0.0080
21:00-22:00 HOUR	0.0073	0.0081	0.0078
22:00-23:00 HOUR	0.0070	0.0082	0.0076
23:00-00:00 HOUR	0.0067	0.0082	0.0071
00:00-01:00 HOUR	0.0066	0.0083	0.0070
01:00-02:00 HOUR	0.0065	0.0081	0.0069
02:00-03:00 HOUR	0.0066	0.0078	0.0071
03:00-04:00 HOUR	0.0067	0.0076	0.0073
04:00-05:00 HOUR	0.0070	0.0076	0.0076
05:00-06:00 HOUR	0.0074	0.0077	0.0078
06:00-07:00 HOUR	0.0077	0.0077	0.0079
07:00-08:00 HOUR	0.0077	0.0074	0.0078


(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอกำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022135
MEASURING METHOD : CHEMILUMINESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0007 - T23AF184-0009

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอกำแพงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023 T23AF184-0007	MARCH 19-20, 2023 T23AF184-0008	MARCH 20-21, 2023 T23AF184-0009
08:00-09:00 HOUR	0.0071	0.0072	0.0068
09:00-10:00 HOUR	0.0065	0.0065	0.0059
10:00-11:00 HOUR	0.0062	0.0061	0.0054
11:00-12:00 HOUR	0.0061	0.0060	0.0052
12:00-13:00 HOUR	0.0064	0.0061	0.0058
13:00-14:00 HOUR	0.0066	0.0065	0.0063
14:00-15:00 HOUR	0.0070	0.0069	0.0067
15:00-16:00 HOUR	0.0072	0.0074	0.0067
16:00-17:00 HOUR	0.0076	0.0077	0.0068
17:00-18:00 HOUR	0.0078	0.0078	0.0069
18:00-19:00 HOUR	0.0080	0.0077	0.0073
19:00-20:00 HOUR	0.0080	0.0078	0.0075
20:00-21:00 HOUR	0.0080	0.0080	0.0079
21:00-22:00 HOUR	0.0079	0.0081	0.0080
22:00-23:00 HOUR	0.0077	0.0080	0.0083
23:00-00:00 HOUR	0.0076	0.0079	0.0083
00:00-01:00 HOUR	0.0076	0.0078	0.0083
01:00-02:00 HOUR	0.0077	0.0077	0.0080
02:00-03:00 HOUR	0.0079	0.0074	0.0080
03:00-04:00 HOUR	0.0080	0.0072	0.0078
04:00-05:00 HOUR	0.0081	0.0071	0.0078
05:00-06:00 HOUR	0.0081	0.0073	0.0078
06:00-07:00 HOUR	0.0080	0.0075	0.0080
07:00-08:00 HOUR	0.0077	0.0074	0.0081


(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

MARCH 28, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A3 : วัดนิยมธรรมวนาราม หมู่ที่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022136
MEASURING METHOD : CHEMILUMINESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0010 - T23AF184-0012

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	KS2-A3 : วัดนิยมธรรมวนาราม หมู่ที่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023 T23AF184-0010	MARCH 19-20, 2023 T23AF184-0011	MARCH 20-21, 2023 T23AF184-0012
08:00-09:00 HOUR	0.0071	0.0065	0.0069
09:00-10:00 HOUR	0.0066	0.0056	0.0062
10:00-11:00 HOUR	0.0061	0.0051	0.0057
11:00-12:00 HOUR	0.0061	0.0052	0.0057
12:00-13:00 HOUR	0.0063	0.0058	0.0059
13:00-14:00 HOUR	0.0068	0.0064	0.0062
14:00-15:00 HOUR	0.0075	0.0071	0.0065
15:00-16:00 HOUR	0.0080	0.0074	0.0067
16:00-17:00 HOUR	0.0082	0.0076	0.0069
17:00-18:00 HOUR	0.0080	0.0076	0.0070
18:00-19:00 HOUR	0.0077	0.0077	0.0072
19:00-20:00 HOUR	0.0075	0.0078	0.0075
20:00-21:00 HOUR	0.0075	0.0081	0.0078
21:00-22:00 HOUR	0.0077	0.0082	0.0078
22:00-23:00 HOUR	0.0078	0.0081	0.0076
23:00-00:00 HOUR	0.0080	0.0077	0.0073
00:00-01:00 HOUR	0.0079	0.0071	0.0070
01:00-02:00 HOUR	0.0077	0.0063	0.0068
02:00-03:00 HOUR	0.0073	0.0057	0.0067
03:00-04:00 HOUR	0.0070	0.0057	0.0067
04:00-05:00 HOUR	0.0071	0.0062	0.0070
05:00-06:00 HOUR	0.0075	0.0071	0.0074
06:00-07:00 HOUR	0.0077	0.0076	0.0077
07:00-08:00 HOUR	0.0074	0.0076	0.0074


(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

MARCH 28, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022128
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0001 - T23AF184-0003

TIME *	RESULT (ppm)		
	CARBON MONOXIDE		
	KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023 T23AF184-0001	MARCH 19-20, 2023 T23AF184-0002	MARCH 20-21, 2023 T23AF184-0003
08:00-09:00 HOUR	1.43	0.95	1.04
09:00-10:00 HOUR	1.23	0.79	0.82
10:00-11:00 HOUR	1.04	0.68	0.64
11:00-12:00 HOUR	0.91	0.70	0.57
12:00-13:00 HOUR	0.87	0.75	0.57
13:00-14:00 HOUR	0.89	0.88	0.71
14:00-15:00 HOUR	0.98	1.07	0.87
15:00-16:00 HOUR	1.06	1.24	1.05
16:00-17:00 HOUR	1.16	1.37	1.18
17:00-18:00 HOUR	1.22	1.39	1.25
18:00-19:00 HOUR	1.25	1.42	1.34
19:00-20:00 HOUR	1.31	1.47	1.35
20:00-21:00 HOUR	1.40	1.54	1.34
21:00-22:00 HOUR	1.52	1.63	1.21
22:00-23:00 HOUR	1.66	1.70	1.00
23:00-00:00 HOUR	1.72	1.78	0.82
00:00-01:00 HOUR	1.73	1.79	0.65
01:00-02:00 HOUR	1.59	1.78	0.59
02:00-03:00 HOUR	1.47	1.78	0.67
03:00-04:00 HOUR	1.42	1.79	0.91
04:00-05:00 HOUR	1.44	1.77	1.19
05:00-06:00 HOUR	1.45	1.71	1.42
06:00-07:00 HOUR	1.35	1.56	1.52
07:00-08:00 HOUR	1.18	1.33	1.48

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A1 : วัดไร่ขันธ์ หมู่ที่ 7 ตำบลกระดี่ อำเภอกำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022130
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0004 - T23AF184-0006

TIME *	RESULT (ppm)		
	CARBON MONOXIDE		
	KS2-A1 : วัดไร่ขันธ์ หมู่ที่ 7 ตำบลกระดี่ อำเภอกำแพงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023 T23AF184-0004	MARCH 19-20, 2023 T23AF184-0005	MARCH 20-21, 2023 T23AF184-0006
08:00-09:00 HOUR	1.53	1.45	1.01
09:00-10:00 HOUR	1.33	1.21	0.72
10:00-11:00 HOUR	1.14	0.97	0.53
11:00-12:00 HOUR	0.98	0.82	0.52
12:00-13:00 HOUR	0.93	0.82	0.58
13:00-14:00 HOUR	1.00	0.96	0.76
14:00-15:00 HOUR	1.15	1.22	0.98
15:00-16:00 HOUR	1.26	1.47	1.20
16:00-17:00 HOUR	1.35	1.67	1.34
17:00-18:00 HOUR	1.40	1.71	1.40
18:00-19:00 HOUR	1.45	1.67	1.41
19:00-20:00 HOUR	1.52	1.49	1.39
20:00-21:00 HOUR	1.61	1.29	1.35
21:00-22:00 HOUR	1.69	1.09	1.27
22:00-23:00 HOUR	1.71	0.92	1.16
23:00-00:00 HOUR	1.70	0.81	1.08
00:00-01:00 HOUR	1.68	0.70	1.00
01:00-02:00 HOUR	1.62	0.65	0.99
02:00-03:00 HOUR	1.52	0.73	1.05
03:00-04:00 HOUR	1.47	0.92	1.19
04:00-05:00 HOUR	1.54	1.24	1.36
05:00-06:00 HOUR	1.64	1.47	1.50
06:00-07:00 HOUR	1.71	1.54	1.45
07:00-08:00 HOUR	1.64	1.35	1.27

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอกำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022131
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0007 - T23AF184-0009

TIME *	RESULT (ppm)		
	CARBON MONOXIDE		
	KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอกำแพงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023 T23AF184-0007	MARCH 19-20, 2023 T23AF184-0008	MARCH 20-21, 2023 T23AF184-0009
08:00-09:00 HOUR	1.18	1.23	1.25
09:00-10:00 HOUR	0.93	1.11	0.95
10:00-11:00 HOUR	0.77	1.03	0.74
11:00-12:00 HOUR	0.73	1.01	0.59
12:00-13:00 HOUR	0.76	1.02	0.55
13:00-14:00 HOUR	0.88	1.04	0.65
14:00-15:00 HOUR	1.01	1.12	0.79
15:00-16:00 HOUR	1.18	1.17	0.97
16:00-17:00 HOUR	1.29	1.25	1.12
17:00-18:00 HOUR	1.37	1.30	1.24
18:00-19:00 HOUR	1.37	1.37	1.28
19:00-20:00 HOUR	1.36	1.42	1.22
20:00-21:00 HOUR	1.27	1.38	1.12
21:00-22:00 HOUR	1.22	1.32	0.98
22:00-23:00 HOUR	1.13	1.28	0.83
23:00-00:00 HOUR	1.06	1.36	0.71
00:00-01:00 HOUR	0.99	1.47	0.63
01:00-02:00 HOUR	0.95	1.58	0.64
02:00-03:00 HOUR	1.01	1.65	0.74
03:00-04:00 HOUR	1.15	1.70	0.95
04:00-05:00 HOUR	1.35	1.67	1.26
05:00-06:00 HOUR	1.48	1.67	1.57
06:00-07:00 HOUR	1.48	1.61	1.74
07:00-08:00 HOUR	1.40	1.48	1.74

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A3 : วัดนิยมธรรมวนาราม หมู่ที่ 2 บ้านหนองผัก ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022132
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0010 - T23AF184-0012

TIME *	RESULT (ppm)		
	CARBON MONOXIDE		
	KS2-A3 : วัดนิยมธรรมวนาราม หมู่ที่ 2 บ้านหนองผัก ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023 T23AF184-0010	MARCH 19-20, 2023 T23AF184-0011	MARCH 20-21, 2023 T23AF184-0012
08:00-09:00 HOUR	0.97	1.40	1.31
09:00-10:00 HOUR	0.76	1.18	1.11
10:00-11:00 HOUR	0.61	1.06	0.93
11:00-12:00 HOUR	0.53	1.01	0.87
12:00-13:00 HOUR	0.55	1.03	0.86
13:00-14:00 HOUR	0.66	1.15	0.97
14:00-15:00 HOUR	0.85	1.35	1.08
15:00-16:00 HOUR	1.06	1.55	1.18
16:00-17:00 HOUR	1.27	1.70	1.27
17:00-18:00 HOUR	1.41	1.76	1.35
18:00-19:00 HOUR	1.53	1.75	1.39
19:00-20:00 HOUR	1.58	1.70	1.41
20:00-21:00 HOUR	1.68	1.61	1.35
21:00-22:00 HOUR	1.73	1.51	1.29
22:00-23:00 HOUR	1.77	1.40	1.24
23:00-00:00 HOUR	1.75	1.30	1.21
00:00-01:00 HOUR	1.72	1.25	1.24
01:00-02:00 HOUR	1.66	1.28	1.27
02:00-03:00 HOUR	1.59	1.33	1.43
03:00-04:00 HOUR	1.62	1.46	1.60
04:00-05:00 HOUR	1.71	1.54	1.71
05:00-06:00 HOUR	1.80	1.62	1.78
06:00-07:00 HOUR	1.79	1.60	1.78
07:00-08:00 HOUR	1.62	1.50	1.69

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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ANALYSIS REPORT

PROJECT NAME : โครงการผลิตไฟฟ้าพลังงานแสงอาทิตย์แบบ PVTP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS1-A1 : วัดหนองกว้าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022141
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2019-002414
MEASURED BY : MR. AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0001 - T23AF184-0003

TIME *	RESULT (m/s)					
	KS1-A1 : วัดหนองกว้าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม					
	MARCH 18-19, 2023 T23AF184-0001		MARCH 19-20, 2023 T23AF184-0002		MARCH 20-21, 2023 T23AF184-0003	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	2.2	ESE	1.5	SSE	2.1	ESE
09:00-10:00 HOUR	1.7	ESE	1.1	SSE	1.4	ESE
10:00-11:00 HOUR	2.1	ESE	1.3	SE	2.2	SE
11:00-12:00 HOUR	1.7	SSE	0.9	ESE	1.6	SE
12:00-13:00 HOUR	1.9	SE	0.9	ESE	2.2	SE
13:00-14:00 HOUR	1.5	SSE	1.0	SE	2.0	SSE
14:00-15:00 HOUR	1.5	SSE	0.9	ESE	1.6	S
15:00-16:00 HOUR	1.9	SSE	0.8	E	2.2	SSE
16:00-17:00 HOUR	1.8	SE	1.2	ESE	1.8	S
17:00-18:00 HOUR	1.7	SSE	1.0	SE	1.9	S
18:00-19:00 HOUR	2.3	SE	0.9	SE	1.9	SE
19:00-20:00 HOUR	1.8	SSE	1.2	SSE	1.5	SSE
20:00-21:00 HOUR	1.4	SE	1.1	SE	1.5	SE
21:00-22:00 HOUR	1.3	SE	1.3	SE	1.3	SE
22:00-23:00 HOUR	1.4	SE	1.3	SE	1.3	S
23:00-00:00 HOUR	1.5	SE	1.3	E	1.3	S
00:00-01:00 HOUR	2.2	SE	1.2	ESE	1.1	SSE
01:00-02:00 HOUR	2.0	SE	1.9	ESE	0.9	SSE
02:00-03:00 HOUR	2.2	ESE	1.9	E	1.0	SSE
03:00-04:00 HOUR	2.4	ESE	2.1	ESE	0.9	S
04:00-05:00 HOUR	1.6	SSE	1.9	ESE	0.7	SSW
05:00-06:00 HOUR	1.5	SSE	2.1	ESE	0.9	SSE
06:00-07:00 HOUR	2.2	SSE	2.0	ESE	0.9	SSE
07:00-08:00 HOUR	1.9	SE	1.6	ESE	1.1	SSE

Sila Banjongjairuk

(MR. SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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ANALYSIS REPORT

PROJECT NAME : โครงการผลิตไฟฟ้าพลังงานแสงอาทิตย์แบบ PVTP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A1 : วัดไร่ขันธ์ หมู่ที่ 7 ตำบลกระดี่ อำเภอกำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022142
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2019-002414
MEASURED BY : MR. AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0004 - T23AF184-0006

TIME *	RESULT (m/s)					
	KS2-A1 : วัดไร่ขันธ์ หมู่ที่ 7 ตำบลกระดี่ อำเภอกำแพงแสน จังหวัดนครปฐม					
	MARCH 18-19, 2023 T23AF184-0004		MARCH 19-20, 2023 T23AF184-0005		MARCH 20-21, 2023 T23AF184-0006	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	1.6	ESE	1.2	ESE	1.1	SSE
09:00-10:00 HOUR	1.8	ESE	0.7	S	0.9	SSE
10:00-11:00 HOUR	2.1	SE	0.8	SE	0.7	ESE
11:00-12:00 HOUR	1.4	ESE	0.9	SE	0.7	SSE
12:00-13:00 HOUR	1.5	ESE	0.8	ESE	1.1	SE
13:00-14:00 HOUR	1.6	SE	1.2	ESE	1.0	ESE
14:00-15:00 HOUR	1.4	SE	1.3	SE	1.2	SSE
15:00-16:00 HOUR	1.6	ESE	1.4	SE	1.5	SSE
16:00-17:00 HOUR	1.5	SE	1.8	SE	1.6	SSE
17:00-18:00 HOUR	0.9	ESE	1.3	ESE	1.8	SSE
18:00-19:00 HOUR	1.0	ESE	2.1	SE	1.5	SE
19:00-20:00 HOUR	1.1	SE	1.6	ESE	1.7	SSE
20:00-21:00 HOUR	0.8	SE	2.2	ESE	1.4	SSE
21:00-22:00 HOUR	1.0	ESE	2.0	ESE	2.0	SSE
22:00-23:00 HOUR	1.2	ESE	1.7	SE	1.9	SSE
23:00-00:00 HOUR	1.2	SE	1.5	SE	2.2	S
00:00-01:00 HOUR	0.9	ESE	1.5	SSE	1.7	S
01:00-02:00 HOUR	0.9	SSE	1.3	SE	2.3	SSE
02:00-03:00 HOUR	0.8	SE	1.2	SE	1.5	S
03:00-04:00 HOUR	1.0	S	1.2	ESE	1.6	SE
04:00-05:00 HOUR	1.1	S	1.1	SSE	1.5	SSE
05:00-06:00 HOUR	0.9	S	0.9	SE	2.3	ESE
06:00-07:00 HOUR	1.2	SSE	0.8	SSE	1.5	SE
07:00-08:00 HOUR	0.9	ESE	0.7	SSE	1.5	ESE

Sila Banjongjairuk

(MR. SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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ANALYSIS REPORT

PROJECT NAME : โครงการผลิตไฟฟ้าพลังงานแสงอาทิตย์แบบ PV TTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอท่าแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022143
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0007 - T23AF184-0009

TIME *	RESULT (m/s)					
	KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอท่าแพงแสน จังหวัดนครปฐม					
	MARCH 18-19, 2023 T23AF184-0007		MARCH 19-20, 2023 T23AF184-0008		MARCH 20-21, 2023 T23AF184-0009	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	1.1	ESE	1.5	ESE	0.8	S
09:00-10:00 HOUR	1.0	SE	1.2	ESE	1.0	S
10:00-11:00 HOUR	1.1	ESE	1.5	SSE	0.8	S
11:00-12:00 HOUR	1.0	SE	1.0	SE	1.2	SSW
12:00-13:00 HOUR	1.0	ESE	0.9	ESE	1.0	S
13:00-14:00 HOUR	1.0	SE	1.2	SE	1.1	S
14:00-15:00 HOUR	0.9	SE	0.8	ESE	1.0	ESE
15:00-16:00 HOUR	0.8	SE	1.1	SE	1.3	SE
16:00-17:00 HOUR	1.0	SE	1.0	ESE	1.4	SE
17:00-18:00 HOUR	0.7	ESE	0.8	SE	1.4	SE
18:00-19:00 HOUR	0.8	SE	1.3	SSE	2.1	ESE
19:00-20:00 HOUR	1.6	ESE	1.3	ESE	2.0	ESE
20:00-21:00 HOUR	1.8	ESE	1.7	SSE	1.6	ESE
21:00-22:00 HOUR	1.4	SE	1.6	SE	1.6	E
22:00-23:00 HOUR	2.1	SSE	1.5	ESE	1.2	ESE
23:00-00:00 HOUR	2.2	SE	1.3	SSE	1.1	E
00:00-01:00 HOUR	1.4	SSE	0.9	ESE	1.1	E
01:00-02:00 HOUR	2.3	S	1.1	ESE	1.1	SE
02:00-03:00 HOUR	1.9	SSE	1.0	ESE	0.8	ESE
03:00-04:00 HOUR	2.0	SE	0.7	SE	1.2	SE
04:00-05:00 HOUR	1.6	ESE	0.8	SE	1.1	SE
05:00-06:00 HOUR	2.0	SSE	0.7	SE	1.0	SSE
06:00-07:00 HOUR	1.8	ESE	0.8	SSE	1.0	SSE
07:00-08:00 HOUR	1.4	SSE	0.8	SSW	1.1	SSE

(Signature)

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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ANALYSIS REPORT

PROJECT NAME : โครงการผลิตไฟฟ้าพลังงานแสงอาทิตย์แบบ PV TTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A3 : วัดนิยมธรรมวนาราม หมู่ที่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022144
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF184-0010 - T23AF184-0012

TIME *	RESULT (m/s)					
	KS2-A3 : วัดนิยมธรรมวนาราม หมู่ที่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม					
	MARCH 18-19, 2023 T23AF184-0010		MARCH 19-20, 2023 T23AF184-0011		MARCH 20-21, 2023 T23AF184-0012	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	0.9	SSE	1.6	SE	1.5	SSE
09:00-10:00 HOUR	1.0	S	2.0	SE	1.6	SSE
10:00-11:00 HOUR	0.7	SSE	1.9	SE	2.4	SE
11:00-12:00 HOUR	0.9	S	2.3	SSE	2.2	ESE
12:00-13:00 HOUR	1.0	S	1.7	SSE	2.2	SE
13:00-14:00 HOUR	1.0	SSE	1.9	S	2.0	ESE
14:00-15:00 HOUR	1.0	SSE	2.4	SE	1.7	SSE
15:00-16:00 HOUR	0.9	SSE	2.4	SSE	1.7	ESE
16:00-17:00 HOUR	1.1	SE	2.2	ESE	1.3	SSE
17:00-18:00 HOUR	1.0	SE	1.8	ESE	1.2	ESE
18:00-19:00 HOUR	1.2	SSE	2.2	E	0.7	SE
19:00-20:00 HOUR	1.7	SE	2.1	SE	0.8	SE
20:00-21:00 HOUR	1.5	SE	1.8	ESE	0.9	ESE
21:00-22:00 HOUR	1.7	SE	1.5	ESE	0.9	SE
22:00-23:00 HOUR	1.6	SE	1.4	ESE	1.0	ESE
23:00-00:00 HOUR	1.5	SSE	1.2	ESE	0.9	SE
00:00-01:00 HOUR	1.2	SSE	1.2	SE	1.0	ESE
01:00-02:00 HOUR	0.8	SE	1.0	SSE	0.7	SSE
02:00-03:00 HOUR	0.9	SE	0.8	SE	1.1	SSE
03:00-04:00 HOUR	1.2	SSE	1.0	ESE	0.7	SE
04:00-05:00 HOUR	1.6	SSE	0.8	SSE	1.0	SSE
05:00-06:00 HOUR	1.5	ESE	1.0	S	0.9	SSE
06:00-07:00 HOUR	1.9	ESE	1.1	SSE	1.4	S
07:00-08:00 HOUR	1.8	SE	1.1	SE	1.6	S

(Signature)

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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1/1



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งท่าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS1-A1 วัดหนองกร่าง หมู่ 3 ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR SUPAKORN RINWONG
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : AUGUST 31, 2023
ANALYTICAL DATE : AUGUST 31-SEPTEMBER 6, 2023
REPORT NO. : 2023-U075127
WORK NO. : 2019-002414
ANALYSIS NO. : T23AQ984-0001 - T23AQ984-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			KS1-A1 วัดหนองกร่าง		
			*	**	***
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T23AQ984-0001	T23AQ984-0002	T23AQ984-0003
			0.051	0.093	0.038
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)			
			0.029	0.059	0.021
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 10:00 HOUR ON AUGUST 27, 2023 TO 10:00 HOUR ON AUGUST 28, 2023.
** : SAMPLING FROM 10:00 HOUR ON AUGUST 28, 2023 TO 10:00 HOUR ON AUGUST 29, 2023.
*** : SAMPLING FROM 10:00 HOUR ON AUGUST 29, 2023 TO 10:00 HOUR ON AUGUST 30, 2023.

Budsakorn ✓
(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

SEPTEMBER 8, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งท่าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS2-A1 วัดไร่ขิง หมู่ 7 ตำบลกระดังงา อำเภอท่าแพงแสน จังหวัดนครปฐม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR SUPAKORN RINWONG
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : AUGUST 31, 2023
ANALYTICAL DATE : AUGUST 31-SEPTEMBER 6, 2023
REPORT NO. : 2023-U075129
WORK NO. : 2019-002414
ANALYSIS NO. : T23AQ984-0004 - T23AQ984-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			KS2-A1 วัดไร่ขิง		
			*	**	***
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T23AQ984-0004	T23AQ984-0005	T23AQ984-0006
			0.032	0.036	0.042
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)			
			0.017	0.017	0.019
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 10:30 HOUR ON AUGUST 27, 2023 TO 10:30 HOUR ON AUGUST 28, 2023.
** : SAMPLING FROM 10:30 HOUR ON AUGUST 28, 2023 TO 10:30 HOUR ON AUGUST 29, 2023.
*** : SAMPLING FROM 10:30 HOUR ON AUGUST 29, 2023 TO 10:30 HOUR ON AUGUST 30, 2023.

Budsakorn ✓
(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

SEPTEMBER 8, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้านแดง แปรลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS2-A2 บ้านทุ่งบัว หมู่ 6 ตำบลทุ่งบัว อำเภอท่าแพ จังหวัดนครปฐม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR SUPAKORN RINWONG
ANALYZED BY : MISS JETJARN TUMSA-AT

RECEIVED DATE : AUGUST 31, 2023
ANALYTICAL DATE : AUGUST 31-SEPTEMBER 6, 2023
REPORT NO. : 2023-U075132
WORK NO. : 2019-002414
ANALYSIS NO. : T23AQ984-0007 - T23AQ984-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			KS2-A2 บ้านทุ่งบัว		
			*	**	***
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T23AQ984-0007	T23AQ984-0008	T23AQ984-0009
			0.028	0.029	0.030
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)			
			0.016	0.017	0.019
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 09:30 HOUR ON AUGUST 27, 2023 TO 09:30 HOUR ON AUGUST 28, 2023.
** : SAMPLING FROM 09:30 HOUR ON AUGUST 28, 2023 TO 09:30 HOUR ON AUGUST 29, 2023.
*** : SAMPLING FROM 09:30 HOUR ON AUGUST 29, 2023 TO 09:30 HOUR ON AUGUST 30, 2023.

Budsakorn ✓
(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

SEPTEMBER 8, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้านแดง แปรลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS2-A3 วัดนิยมธรรมวราราม หมู่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอท่าแพ จังหวัดนครปฐม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR SUPAKORN RINWONG
ANALYZED BY : MISS JETJARN TUMSA-AT

RECEIVED DATE : AUGUST 31, 2023
ANALYTICAL DATE : AUGUST 31-SEPTEMBER 6, 2023
REPORT NO. : 2023-U075136
WORK NO. : 2019-002414
ANALYSIS NO. : T23AQ984-0010 - T23AQ984-0012

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			KS2-A3 วัดนิยมธรรมวราราม		
			*	**	***
TOTAL SUSPENDED PARTICULATE	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T23AQ984-0010	T23AQ984-0011	T23AQ984-0012
			0.042	0.051	0.043
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)			
			0.015	0.020	0.016
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK
TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
TSP : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX B, REFERENCE METHOD FOR THE DETERMINATION OF SUSPENDED PARTICULATE MATTER IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
PM10 : US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.
* : SAMPLING FROM 09:00 HOUR ON AUGUST 27, 2023 TO 09:00 HOUR ON AUGUST 28, 2023.
** : SAMPLING FROM 09:00 HOUR ON AUGUST 28, 2023 TO 09:00 HOUR ON AUGUST 29, 2023.
*** : SAMPLING FROM 09:00 HOUR ON AUGUST 29, 2023 TO 09:00 HOUR ON AUGUST 30, 2023.

Budsakorn ✓
(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

SEPTEMBER 8, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073373
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0001 - T23AQ984-0003

TIME *	RESULT (ppm)		
	CARBON MONOXIDE		
	KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023 T23AQ984-0001	AUGUST 28-29, 2023 T23AQ984-0002	AUGUST 29-30, 2023 T23AQ984-0003
08:00-09:00 HOUR	1.23	1.13	1.09
09:00-10:00 HOUR	1.10	1.00	1.02
10:00-11:00 HOUR	1.01	0.92	0.97
11:00-12:00 HOUR	0.97	0.98	0.99
12:00-13:00 HOUR	0.98	1.06	0.98
13:00-14:00 HOUR	1.05	1.12	1.02
14:00-15:00 HOUR	1.13	1.19	1.10
15:00-16:00 HOUR	1.21	1.21	1.16
16:00-17:00 HOUR	1.27	1.26	1.22
17:00-18:00 HOUR	1.34	1.26	1.27
18:00-19:00 HOUR	1.43	1.27	1.35
19:00-20:00 HOUR	1.56	1.26	1.39
20:00-21:00 HOUR	1.71	1.25	1.42
21:00-22:00 HOUR	1.82	1.22	1.48
22:00-23:00 HOUR	1.79	1.19	1.49
23:00-00:00 HOUR	1.68	1.14	1.52
00:00-01:00 HOUR	1.53	1.13	1.51
01:00-02:00 HOUR	1.41	1.11	1.53
02:00-03:00 HOUR	1.32	1.16	1.52
03:00-04:00 HOUR	1.29	1.21	1.45
04:00-05:00 HOUR	1.33	1.33	1.41
05:00-06:00 HOUR	1.37	1.38	1.36
06:00-07:00 HOUR	1.38	1.37	1.34
07:00-08:00 HOUR	1.29	1.26	1.22

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A1 : วัดไผ่ร่มเย็น หมู่ที่ 7 ตำบลกระดี่ อำเภอคำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073376
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0004 - T23AQ984-0006

TIME *	RESULT (ppm)		
	CARBON MONOXIDE		
	KS2-A1 : วัดไผ่ร่มเย็น หมู่ที่ 7 ตำบลกระดี่ อำเภอคำแพงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023 T23AQ984-0004	AUGUST 28-29, 2023 T23AQ984-0005	AUGUST 29-30, 2023 T23AQ984-0006
08:00-09:00 HOUR	0.92	1.09	1.15
09:00-10:00 HOUR	0.98	1.01	1.07
10:00-11:00 HOUR	1.06	0.97	0.98
11:00-12:00 HOUR	1.12	0.97	0.97
12:00-13:00 HOUR	1.14	1.00	0.99
13:00-14:00 HOUR	1.16	1.05	1.05
14:00-15:00 HOUR	1.18	1.06	1.09
15:00-16:00 HOUR	1.20	1.07	1.12
16:00-17:00 HOUR	1.16	1.09	1.17
17:00-18:00 HOUR	1.11	1.15	1.19
18:00-19:00 HOUR	1.10	1.16	1.21
19:00-20:00 HOUR	1.16	1.20	1.20
20:00-21:00 HOUR	1.22	1.23	1.16
21:00-22:00 HOUR	1.31	1.23	1.09
22:00-23:00 HOUR	1.29	1.19	1.05
23:00-00:00 HOUR	1.25	1.14	1.03
00:00-01:00 HOUR	1.22	1.15	1.04
01:00-02:00 HOUR	1.22	1.18	1.04
02:00-03:00 HOUR	1.21	1.21	1.05
03:00-04:00 HOUR	1.26	1.26	1.10
04:00-05:00 HOUR	1.30	1.29	1.19
05:00-06:00 HOUR	1.30	1.32	1.27
06:00-07:00 HOUR	1.26	1.30	1.30
07:00-08:00 HOUR	1.16	1.24	1.26

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอท่าแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073378
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0007 - T23AQ984-0009

TIME *	RESULT (ppm)		
	CARBON MONOXIDE		
	KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอท่าแพงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023 T23AQ984-0007	AUGUST 28-29, 2023 T23AQ984-0008	AUGUST 29-30, 2023 T23AQ984-0009
08:00-09:00 HOUR	1.14	0.98	1.31
09:00-10:00 HOUR	1.08	0.87	1.20
10:00-11:00 HOUR	1.03	0.85	1.09
11:00-12:00 HOUR	1.04	0.93	1.04
12:00-13:00 HOUR	1.06	1.06	1.13
13:00-14:00 HOUR	1.15	1.19	1.04
14:00-15:00 HOUR	1.22	1.29	0.98
15:00-16:00 HOUR	1.30	1.34	1.03
16:00-17:00 HOUR	1.37	1.38	1.12
17:00-18:00 HOUR	1.39	1.38	1.19
18:00-19:00 HOUR	1.40	1.35	1.31
19:00-20:00 HOUR	1.39	1.29	1.41
20:00-21:00 HOUR	1.34	1.26	1.52
21:00-22:00 HOUR	1.30	1.23	1.56
22:00-23:00 HOUR	1.25	1.23	1.51
23:00-00:00 HOUR	1.20	1.25	1.43
00:00-01:00 HOUR	1.13	1.27	1.32
01:00-02:00 HOUR	1.02	1.34	1.41
02:00-03:00 HOUR	0.99	1.37	1.36
03:00-04:00 HOUR	1.01	1.44	1.38
04:00-05:00 HOUR	1.13	1.49	1.40
05:00-06:00 HOUR	1.21	1.51	1.43
06:00-07:00 HOUR	1.23	1.49	1.36
07:00-08:00 HOUR	1.14	1.41	1.27


(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023

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- THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

1/1



- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A3 : วัดนิยมธรรมวนาราม หมู่ที่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073379
MEASURING METHOD : NON-DISPERSIVE INFRARED DETECTION **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0010 - T23AQ984-0012

TIME *	RESULT (ppm)		
	CARBON MONOXIDE		
	KS2-A3 : วัดนิยมธรรมวนาราม หมู่ที่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023 T23AQ984-0010	AUGUST 28-29, 2023 T23AQ984-0011	AUGUST 29-30, 2023 T23AQ984-0012
08:00-09:00 HOUR	1.02	1.05	0.99
09:00-10:00 HOUR	0.94	0.97	0.91
10:00-11:00 HOUR	0.90	0.89	0.85
11:00-12:00 HOUR	0.92	0.90	0.87
12:00-13:00 HOUR	1.03	0.95	0.87
13:00-14:00 HOUR	1.13	0.99	0.90
14:00-15:00 HOUR	1.24	1.04	0.94
15:00-16:00 HOUR	1.24	1.07	0.99
16:00-17:00 HOUR	1.25	1.13	1.05
17:00-18:00 HOUR	1.23	1.19	1.11
18:00-19:00 HOUR	1.26	1.26	1.14
19:00-20:00 HOUR	1.25	1.30	1.21
20:00-21:00 HOUR	1.20	1.31	1.30
21:00-22:00 HOUR	1.14	1.26	1.37
22:00-23:00 HOUR	1.03	1.23	1.41
23:00-00:00 HOUR	0.96	1.17	1.40
00:00-01:00 HOUR	0.91	1.14	1.40
01:00-02:00 HOUR	0.91	1.09	1.40
02:00-03:00 HOUR	0.95	1.08	1.38
03:00-04:00 HOUR	1.01	1.08	1.38
04:00-05:00 HOUR	1.11	1.14	1.38
05:00-06:00 HOUR	1.21	1.20	1.38
06:00-07:00 HOUR	1.22	1.21	1.29
07:00-08:00 HOUR	1.19	1.13	1.17


(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023

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- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลห้วยลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073380
MEASURING METHOD : CHEMILUMINESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0001 - T23AQ984-0003

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลห้วยลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023 T23AQ984-0001	AUGUST 28-29, 2023 T23AQ984-0002	AUGUST 29-30, 2023 T23AQ984-0003
08:00-09:00 HOUR	0.0153	0.0145	0.0138
09:00-10:00 HOUR	0.0136	0.0139	0.0131
10:00-11:00 HOUR	0.0129	0.0128	0.0109
11:00-12:00 HOUR	0.0122	0.0112	0.0105
12:00-13:00 HOUR	0.0124	0.0109	0.0100
13:00-14:00 HOUR	0.0119	0.0108	0.0101
14:00-15:00 HOUR	0.0123	0.0126	0.0104
15:00-16:00 HOUR	0.0122	0.0129	0.0103
16:00-17:00 HOUR	0.0134	0.0142	0.0117
17:00-18:00 HOUR	0.0140	0.0152	0.0130
18:00-19:00 HOUR	0.0145	0.0160	0.0147
19:00-20:00 HOUR	0.0142	0.0159	0.0157
20:00-21:00 HOUR	0.0138	0.0152	0.0154
21:00-22:00 HOUR	0.0135	0.0149	0.0147
22:00-23:00 HOUR	0.0130	0.0156	0.0129
23:00-00:00 HOUR	0.0132	0.0152	0.0123
00:00-01:00 HOUR	0.0125	0.0153	0.0119
01:00-02:00 HOUR	0.0133	0.0148	0.0120
02:00-03:00 HOUR	0.0134	0.0141	0.0120
03:00-04:00 HOUR	0.0143	0.0141	0.0117
04:00-05:00 HOUR	0.0143	0.0131	0.0115
05:00-06:00 HOUR	0.0139	0.0137	0.0127
06:00-07:00 HOUR	0.0143	0.0135	0.0141
07:00-08:00 HOUR	0.0144	0.0148	0.0162


(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A1 : วัดไผ่ร่มเย็น หมู่ที่ 7 ตำบลกระดี่ อำเภอคำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073382
MEASURING METHOD : CHEMILUMINESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0004 - T23AQ984-0006

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	KS2-A1 : วัดไผ่ร่มเย็น หมู่ที่ 7 ตำบลกระดี่ อำเภอคำแพงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023 T23AQ984-0004	AUGUST 28-29, 2023 T23AQ984-0005	AUGUST 29-30, 2023 T23AQ984-0006
08:00-09:00 HOUR	0.0124	0.0091	0.0118
09:00-10:00 HOUR	0.0121	0.0095	0.0111
10:00-11:00 HOUR	0.0119	0.0093	0.0102
11:00-12:00 HOUR	0.0109	0.0095	0.0107
12:00-13:00 HOUR	0.0111	0.0111	0.0117
13:00-14:00 HOUR	0.0117	0.0126	0.0132
14:00-15:00 HOUR	0.0134	0.0143	0.0147
15:00-16:00 HOUR	0.0139	0.0132	0.0142
16:00-17:00 HOUR	0.0135	0.0114	0.0131
17:00-18:00 HOUR	0.0114	0.0093	0.0110
18:00-19:00 HOUR	0.0103	0.0080	0.0104
19:00-20:00 HOUR	0.0098	0.0078	0.0096
20:00-21:00 HOUR	0.0098	0.0084	0.0092
21:00-22:00 HOUR	0.0100	0.0088	0.0098
22:00-23:00 HOUR	0.0099	0.0099	0.0101
23:00-00:00 HOUR	0.0106	0.0115	0.0112
00:00-01:00 HOUR	0.0112	0.0134	0.0120
01:00-02:00 HOUR	0.0124	0.0135	0.0128
02:00-03:00 HOUR	0.0127	0.0138	0.0133
03:00-04:00 HOUR	0.0123	0.0141	0.0133
04:00-05:00 HOUR	0.0120	0.0151	0.0133
05:00-06:00 HOUR	0.0110	0.0150	0.0138
06:00-07:00 HOUR	0.0101	0.0138	0.0137
07:00-08:00 HOUR	0.0094	0.0133	0.0141


(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก่้างแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอคำพ่วงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073383
MEASURING METHOD : CHEMILUMINESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0007 - T23AQ984-0009

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอคำพ่วงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023 T23AQ984-0007	AUGUST 28-29, 2023 T23AQ984-0008	AUGUST 29-30, 2023 T23AQ984-0009
08:00-09:00 HOUR	0.0152	0.0147	0.0148
09:00-10:00 HOUR	0.0138	0.0131	0.0129
10:00-11:00 HOUR	0.0106	0.0112	0.0093
11:00-12:00 HOUR	0.0091	0.0109	0.0092
12:00-13:00 HOUR	0.0088	0.0109	0.0092
13:00-14:00 HOUR	0.0098	0.0106	0.0098
14:00-15:00 HOUR	0.0118	0.0103	0.0108
15:00-16:00 HOUR	0.0137	0.0100	0.0112
16:00-17:00 HOUR	0.0160	0.0119	0.0125
17:00-18:00 HOUR	0.0175	0.0129	0.0140
18:00-19:00 HOUR	0.0172	0.0140	0.0145
19:00-20:00 HOUR	0.0169	0.0138	0.0149
20:00-21:00 HOUR	0.0158	0.0146	0.0142
21:00-22:00 HOUR	0.0159	0.0141	0.0150
22:00-23:00 HOUR	0.0151	0.0141	0.0145
23:00-00:00 HOUR	0.0146	0.0134	0.0142
00:00-01:00 HOUR	0.0146	0.0128	0.0130
01:00-02:00 HOUR	0.0142	0.0121	0.0126
02:00-03:00 HOUR	0.0147	0.0121	0.0119
03:00-04:00 HOUR	0.0146	0.0121	0.0114
04:00-05:00 HOUR	0.0141	0.0123	0.0112
05:00-06:00 HOUR	0.0139	0.0130	0.0123
06:00-07:00 HOUR	0.0146	0.0146	0.0134
07:00-08:00 HOUR	0.0159	0.0166	0.0150


(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023

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- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก่้างแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A3 : วัดนิยมธรรมวนาราม หมู่ที่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอคำพ่วงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073385
MEASURING METHOD : CHEMILUMINESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0010 - T23AQ984-0012

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	KS2-A3 : วัดนิยมธรรมวนาราม หมู่ที่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอคำพ่วงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023 T23AQ984-0010	AUGUST 28-29, 2023 T23AQ984-0011	AUGUST 29-30, 2023 T23AQ984-0012
08:00-09:00 HOUR	0.0129	0.0129	0.0136
09:00-10:00 HOUR	0.0118	0.0121	0.0122
10:00-11:00 HOUR	0.0100	0.0110	0.0104
11:00-12:00 HOUR	0.0095	0.0104	0.0096
12:00-13:00 HOUR	0.0090	0.0095	0.0092
13:00-14:00 HOUR	0.0088	0.0086	0.0096
14:00-15:00 HOUR	0.0092	0.0086	0.0102
15:00-16:00 HOUR	0.0098	0.0083	0.0115
16:00-17:00 HOUR	0.0113	0.0096	0.0128
17:00-18:00 HOUR	0.0127	0.0109	0.0142
18:00-19:00 HOUR	0.0130	0.0118	0.0134
19:00-20:00 HOUR	0.0134	0.0120	0.0116
20:00-21:00 HOUR	0.0134	0.0112	0.0097
21:00-22:00 HOUR	0.0133	0.0114	0.0090
22:00-23:00 HOUR	0.0132	0.0109	0.0089
23:00-00:00 HOUR	0.0126	0.0113	0.0094
00:00-01:00 HOUR	0.0129	0.0113	0.0099
01:00-02:00 HOUR	0.0123	0.0114	0.0121
02:00-03:00 HOUR	0.0130	0.0115	0.0131
03:00-04:00 HOUR	0.0127	0.0114	0.0141
04:00-05:00 HOUR	0.0132	0.0116	0.0135
05:00-06:00 HOUR	0.0128	0.0121	0.0134
06:00-07:00 HOUR	0.0135	0.0132	0.0127
07:00-08:00 HOUR	0.0136	0.0143	0.0120


(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023

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- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอคำพ่วงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073386
MEASURING METHOD : UV FLUORESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0001 - T23AQ984-0003

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอคำพ่วงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023 T23AQ984-0001	AUGUST 28-29, 2023 T23AQ984-0002	AUGUST 29-30, 2023 T23AQ984-0003
08:00-09:00 HOUR	0.0027	0.0032	0.0025
09:00-10:00 HOUR	0.0025	0.0027	0.0024
10:00-11:00 HOUR	0.0025	0.0024	0.0024
11:00-12:00 HOUR	0.0024	0.0020	0.0023
12:00-13:00 HOUR	0.0024	0.0022	0.0023
13:00-14:00 HOUR	0.0024	0.0025	0.0022
14:00-15:00 HOUR	0.0025	0.0026	0.0023
15:00-16:00 HOUR	0.0026	0.0026	0.0026
16:00-17:00 HOUR	0.0027	0.0026	0.0029
17:00-18:00 HOUR	0.0030	0.0025	0.0031
18:00-19:00 HOUR	0.0031	0.0027	0.0029
19:00-20:00 HOUR	0.0033	0.0027	0.0027
20:00-21:00 HOUR	0.0031	0.0030	0.0028
21:00-22:00 HOUR	0.0031	0.0030	0.0028
22:00-23:00 HOUR	0.0029	0.0031	0.0030
23:00-00:00 HOUR	0.0028	0.0030	0.0030
00:00-01:00 HOUR	0.0027	0.0028	0.0026
01:00-02:00 HOUR	0.0028	0.0027	0.0024
02:00-03:00 HOUR	0.0031	0.0028	0.0023
03:00-04:00 HOUR	0.0032	0.0029	0.0022
04:00-05:00 HOUR	0.0032	0.0029	0.0024
05:00-06:00 HOUR	0.0031	0.0027	0.0027
06:00-07:00 HOUR	0.0031	0.0027	0.0031
07:00-08:00 HOUR	0.0031	0.0025	0.0028
AVERAGE 24 HOUR	0.0028	0.0027	0.0026

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A1 : วัดไผ่เรณู หมู่ที่ 7 ตำบลกระดี่ อำเภอคำพ่วงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073387
MEASURING METHOD : UV FLUORESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0004 - T23AQ984-0006

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	KS2-A1 : วัดไผ่เรณู หมู่ที่ 7 ตำบลกระดี่ อำเภอคำพ่วงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023 T23AQ984-0004	AUGUST 28-29, 2023 T23AQ984-0005	AUGUST 29-30, 2023 T23AQ984-0006
08:00-09:00 HOUR	0.0027	0.0025	0.0027
09:00-10:00 HOUR	0.0026	0.0021	0.0026
10:00-11:00 HOUR	0.0026	0.0016	0.0023
11:00-12:00 HOUR	0.0026	0.0015	0.0025
12:00-13:00 HOUR	0.0027	0.0016	0.0026
13:00-14:00 HOUR	0.0029	0.0022	0.0030
14:00-15:00 HOUR	0.0030	0.0026	0.0032
15:00-16:00 HOUR	0.0030	0.0030	0.0032
16:00-17:00 HOUR	0.0028	0.0036	0.0032
17:00-18:00 HOUR	0.0029	0.0038	0.0032
18:00-19:00 HOUR	0.0029	0.0042	0.0032
19:00-20:00 HOUR	0.0033	0.0036	0.0034
20:00-21:00 HOUR	0.0035	0.0034	0.0036
21:00-22:00 HOUR	0.0035	0.0030	0.0040
22:00-23:00 HOUR	0.0031	0.0031	0.0038
23:00-00:00 HOUR	0.0031	0.0029	0.0035
00:00-01:00 HOUR	0.0029	0.0028	0.0036
01:00-02:00 HOUR	0.0031	0.0027	0.0036
02:00-03:00 HOUR	0.0029	0.0028	0.0040
03:00-04:00 HOUR	0.0031	0.0027	0.0038
04:00-05:00 HOUR	0.0031	0.0027	0.0041
05:00-06:00 HOUR	0.0035	0.0031	0.0038
06:00-07:00 HOUR	0.0034	0.0032	0.0036
07:00-08:00 HOUR	0.0033	0.0032	0.0031
AVERAGE 24 HOUR	0.0030	0.0028	0.0033

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอคำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073388
MEASURING METHOD : UV FLUORESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0007 - T23AQ984-0009

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอคำแพงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023 T23AQ984-0007	AUGUST 28-29, 2023 T23AQ984-0008	AUGUST 29-30, 2023 T23AQ984-0009
08:00-09:00 HOUR	0.0028	0.0027	0.0027
09:00-10:00 HOUR	0.0024	0.0026	0.0026
10:00-11:00 HOUR	0.0020	0.0025	0.0025
11:00-12:00 HOUR	0.0016	0.0026	0.0025
12:00-13:00 HOUR	0.0015	0.0029	0.0027
13:00-14:00 HOUR	0.0018	0.0032	0.0029
14:00-15:00 HOUR	0.0021	0.0036	0.0030
15:00-16:00 HOUR	0.0024	0.0038	0.0032
16:00-17:00 HOUR	0.0028	0.0039	0.0034
17:00-18:00 HOUR	0.0028	0.0039	0.0034
18:00-19:00 HOUR	0.0029	0.0040	0.0035
19:00-20:00 HOUR	0.0028	0.0037	0.0033
20:00-21:00 HOUR	0.0027	0.0034	0.0034
21:00-22:00 HOUR	0.0024	0.0028	0.0032
22:00-23:00 HOUR	0.0020	0.0028	0.0028
23:00-00:00 HOUR	0.0021	0.0028	0.0028
00:00-01:00 HOUR	0.0020	0.0031	0.0027
01:00-02:00 HOUR	0.0020	0.0030	0.0030
02:00-03:00 HOUR	0.0021	0.0028	0.0028
03:00-04:00 HOUR	0.0026	0.0029	0.0031
04:00-05:00 HOUR	0.0033	0.0032	0.0031
05:00-06:00 HOUR	0.0036	0.0037	0.0031
06:00-07:00 HOUR	0.0035	0.0034	0.0031
07:00-08:00 HOUR	0.0030	0.0032	0.0029
AVERAGE 24 HOUR	0.0025	0.0032	0.0030


(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A3 : วัดนิยมธรรมานาราม หมู่ที่ 2 บ้านหนองผัก ตำบลทุ่งลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073389
MEASURING METHOD : UV FLUORESCENCE **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0010 - T23AQ984-0012

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	KS2-A3 : วัดนิยมธรรมานาราม หมู่ที่ 2 บ้านหนองผัก ตำบลทุ่งลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023 T23AQ984-0010	AUGUST 28-29, 2023 T23AQ984-0011	AUGUST 29-30, 2023 T23AQ984-0012
08:00-09:00 HOUR	0.0031	0.0028	0.0024
09:00-10:00 HOUR	0.0027	0.0022	0.0020
10:00-11:00 HOUR	0.0027	0.0018	0.0017
11:00-12:00 HOUR	0.0024	0.0016	0.0016
12:00-13:00 HOUR	0.0025	0.0018	0.0017
13:00-14:00 HOUR	0.0028	0.0019	0.0020
14:00-15:00 HOUR	0.0034	0.0023	0.0023
15:00-16:00 HOUR	0.0036	0.0028	0.0024
16:00-17:00 HOUR	0.0037	0.0034	0.0026
17:00-18:00 HOUR	0.0038	0.0037	0.0030
18:00-19:00 HOUR	0.0040	0.0039	0.0033
19:00-20:00 HOUR	0.0039	0.0038	0.0035
20:00-21:00 HOUR	0.0035	0.0034	0.0037
21:00-22:00 HOUR	0.0032	0.0027	0.0036
22:00-23:00 HOUR	0.0031	0.0022	0.0039
23:00-00:00 HOUR	0.0031	0.0021	0.0036
00:00-01:00 HOUR	0.0027	0.0021	0.0036
01:00-02:00 HOUR	0.0022	0.0020	0.0037
02:00-03:00 HOUR	0.0022	0.0020	0.0037
03:00-04:00 HOUR	0.0024	0.0023	0.0040
04:00-05:00 HOUR	0.0030	0.0027	0.0038
05:00-06:00 HOUR	0.0032	0.0031	0.0039
06:00-07:00 HOUR	0.0035	0.0031	0.0036
07:00-08:00 HOUR	0.0032	0.0030	0.0032
AVERAGE 24 HOUR	0.0031	0.0026	0.0030


(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073390
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0001 - T23AQ984-0003

TIME *	RESULT (m/s)					
	KS1-A1 : วัดหนองกร่าง หมู่ที่ 3 ตำบลทุ่งลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม					
	AUGUST 27-28, 2023 T23AQ984-0001		AUGUST 28-29, 2023 T23AQ984-0002		AUGUST 29-30, 2023 T23AQ984-0003	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	2.4	SSW	2.0	SSW	1.9	SSW
09:00-10:00 HOUR	3.1	SSW	1.8	SSW	1.4	WSW
10:00-11:00 HOUR	3.4	SSW	2.4	SW	0.7	WSW
11:00-12:00 HOUR	2.8	SW	2.1	SSW	0.9	W
12:00-13:00 HOUR	2.6	WSW	1.7	SSW	1.2	WSW
13:00-14:00 HOUR	2.2	SSW	1.2	SSW	1.2	SW
14:00-15:00 HOUR	2.0	SW	1.2	SW	1.4	WSW
15:00-16:00 HOUR	1.4	SSW	1.9	SSW	1.9	SW
16:00-17:00 HOUR	1.2	SSW	0.9	WSW	1.7	WSW
17:00-18:00 HOUR	0.9	S	1.1	SW	2.1	WNW
18:00-19:00 HOUR	1.0	S	0.8	WSW	2.6	SW
19:00-20:00 HOUR	0.7	SSW	1.2	WSW	2.2	W
20:00-21:00 HOUR	0.9	S	0.8	W	2.1	SW
21:00-22:00 HOUR	1.9	S	2.1	W	1.4	WNW
22:00-23:00 HOUR	1.7	SSW	1.2	WSW	1.4	W
23:00-00:00 HOUR	1.0	SSW	1.2	WNW	1.3	WNW
00:00-01:00 HOUR	0.9	SW	1.6	WSW	1.1	WNW
01:00-02:00 HOUR	0.7	SSW	2.8	S	0.8	W
02:00-03:00 HOUR	1.1	SW	2.6	SSW	1.0	WSW
03:00-04:00 HOUR	1.1	SW	3.0	S	1.8	WSW
04:00-05:00 HOUR	1.0	SSW	3.2	SW	2.6	WSW
05:00-06:00 HOUR	1.4	SW	2.4	S	1.2	SW
06:00-07:00 HOUR	1.4	S	2.6	SW	1.1	WSW
07:00-08:00 HOUR	1.5	SW	1.9	W	1.7	WSW

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023

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- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A1 : วัดไร่ขันธ์ หมู่ที่ 7 ตำบลกระดี่ อำเภอคำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073391
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0004 - T23AQ984-0006

TIME *	RESULT (m/s)					
	KS2-A1 : วัดไร่ขันธ์ หมู่ที่ 7 ตำบลกระดี่ อำเภอคำแพงแสน จังหวัดนครปฐม					
	AUGUST 27-28, 2023 T23AQ984-0004		AUGUST 28-29, 2023 T23AQ984-0005		AUGUST 29-30, 2023 T23AQ984-0006	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	1.5	S	2.2	S	3.2	SW
09:00-10:00 HOUR	1.8	SW	2.2	SSW	2.8	SSW
10:00-11:00 HOUR	1.9	SW	1.5	SW	3.3	S
11:00-12:00 HOUR	1.8	SW	1.6	SW	3.1	S
12:00-13:00 HOUR	1.7	SSW	1.8	WSW	2.4	S
13:00-14:00 HOUR	1.8	S	2.1	SW	3.3	SW
14:00-15:00 HOUR	2.1	SSW	2.1	SSW	2.0	WSW
15:00-16:00 HOUR	1.9	SW	1.5	SW	1.5	SSW
16:00-17:00 HOUR	1.8	SSW	2.0	S	1.5	WSW
17:00-18:00 HOUR	1.8	SW	1.3	SSW	0.9	SSW
18:00-19:00 HOUR	1.8	SW	1.6	SW	1.3	SW
19:00-20:00 HOUR	1.2	SW	0.9	SSW	1.3	SSW
20:00-21:00 HOUR	1.2	SW	1.1	SSW	2.5	SW
21:00-22:00 HOUR	1.1	W	1.5	SSW	1.9	SW
22:00-23:00 HOUR	0.9	SW	1.6	S	2.2	SW
23:00-00:00 HOUR	1.1	WSW	2.2	S	1.7	SW
00:00-01:00 HOUR	1.3	W	2.5	S	1.5	WSW
01:00-02:00 HOUR	1.3	WSW	2.9	SSW	1.6	S
02:00-03:00 HOUR	2.0	W	3.1	SSW	1.0	SSW
03:00-04:00 HOUR	2.6	W	2.8	WSW	0.7	S
04:00-05:00 HOUR	2.9	SW	2.5	SW	1.0	SSW
05:00-06:00 HOUR	3.7	W	2.2	SW	1.0	S
06:00-07:00 HOUR	2.3	SW	2.9	SW	0.8	SSW
07:00-08:00 HOUR	2.4	SSW	2.5	SW	1.1	S

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023

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- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอคำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073392
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0007 - T23AQ984-0009

TIME *	RESULT (m/s)					
	KS2-A2 : บ้านทุ่งบัว หมู่ที่ 6 ตำบลทุ่งบัว อำเภอคำแพงแสน จังหวัดนครปฐม					
	AUGUST 27-28, 2023 T23AQ984-0007		AUGUST 28-29, 2023 T23AQ984-0008		AUGUST 29-30, 2023 T23AQ984-0009	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	1.5	WSW	2.7	SSW	1.1	SW
09:00-10:00 HOUR	2.1	SSW	2.7	SSW	0.8	SSW
10:00-11:00 HOUR	2.3	SW	2.4	WSW	0.9	SSW
11:00-12:00 HOUR	2.8	WSW	3.0	SW	0.8	SSW
12:00-13:00 HOUR	2.3	W	2.7	WSW	1.1	SSW
13:00-14:00 HOUR	3.6	SW	3.7	W	1.1	SSW
14:00-15:00 HOUR	2.3	WSW	3.6	WSW	1.2	S
15:00-16:00 HOUR	2.2	WSW	3.6	WNW	2.3	SW
16:00-17:00 HOUR	2.4	WSW	3.2	WSW	2.4	SSW
17:00-18:00 HOUR	1.5	WSW	3.1	W	3.1	SW
18:00-19:00 HOUR	2.3	SSW	1.7	WSW	3.3	SW
19:00-20:00 HOUR	1.9	SSW	1.6	SW	2.6	SW
20:00-21:00 HOUR	2.0	SSW	1.0	S	2.4	SSE
21:00-22:00 HOUR	1.7	WSW	1.8	S	3.2	S
22:00-23:00 HOUR	2.1	SW	2.0	S	2.9	S
23:00-00:00 HOUR	1.8	SW	1.9	S	2.6	SSW
00:00-01:00 HOUR	1.7	WSW	2.6	SSE	3.3	S
01:00-02:00 HOUR	1.9	SW	2.8	S	2.6	S
02:00-03:00 HOUR	2.0	WSW	3.2	SW	2.7	S
03:00-04:00 HOUR	1.5	WSW	2.5	SSW	3.7	S
04:00-05:00 HOUR	2.0	WSW	2.8	S	3.4	S
05:00-06:00 HOUR	1.6	WSW	1.8	SW	3.6	S
06:00-07:00 HOUR	1.6	SW	1.9	SSW	2.3	SSW
07:00-08:00 HOUR	2.9	SSW	1.2	S	3.1	S

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023

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- End of Analysis Report -

ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS2-A3 : วัดนิยมธรรมวนาราม หมู่ที่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073393
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0010 - T23AQ984-0012

TIME *	RESULT (m/s)					
	KS2-A3 : วัดนิยมธรรมวนาราม หมู่ที่ 2 บ้านหนองพิก ตำบลทุ่งลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม					
	AUGUST 27-28, 2023 T23AQ984-0010		AUGUST 28-29, 2023 T23AQ984-0011		AUGUST 29-30, 2023 T23AQ984-0012	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	2.3	SSW	1.9	S	1.1	SW
09:00-10:00 HOUR	1.9	SW	1.3	S	0.9	S
10:00-11:00 HOUR	1.5	SSW	1.7	SSW	0.9	SW
11:00-12:00 HOUR	1.3	SW	1.7	SW	1.0	SW
12:00-13:00 HOUR	1.1	WSW	2.0	SSW	0.9	SSW
13:00-14:00 HOUR	1.2	WSW	1.2	WSW	1.2	SW
14:00-15:00 HOUR	0.8	WSW	1.1	W	1.4	SSW
15:00-16:00 HOUR	1.5	SW	0.8	W	2.1	SW
16:00-17:00 HOUR	1.3	SSW	1.2	WSW	2.7	S
17:00-18:00 HOUR	2.2	S	1.4	WSW	3.2	SW
18:00-19:00 HOUR	1.9	SSW	1.9	W	2.5	WSW
19:00-20:00 HOUR	2.0	S	2.7	SW	2.5	SSW
20:00-21:00 HOUR	2.2	SW	2.7	W	2.6	WSW
21:00-22:00 HOUR	1.9	SW	3.5	S	2.6	W
22:00-23:00 HOUR	2.9	SW	3.8	WSW	2.7	WSW
23:00-00:00 HOUR	2.0	SW	3.3	SSW	2.2	WSW
00:00-01:00 HOUR	3.2	WSW	3.1	SSW	1.9	SW
01:00-02:00 HOUR	3.5	SW	2.0	SSW	1.5	SW
02:00-03:00 HOUR	3.0	SW	2.5	S	1.5	WSW
03:00-04:00 HOUR	3.1	SSW	2.0	WSW	2.0	SSW
04:00-05:00 HOUR	2.1	SSW	2.0	W	2.2	SSW
05:00-06:00 HOUR	2.1	SW	1.8	W	1.9	S
06:00-07:00 HOUR	1.5	S	1.5	SW	2.0	SSW
07:00-08:00 HOUR	1.4	SSW	1.4	SSW	2.2	SW

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023

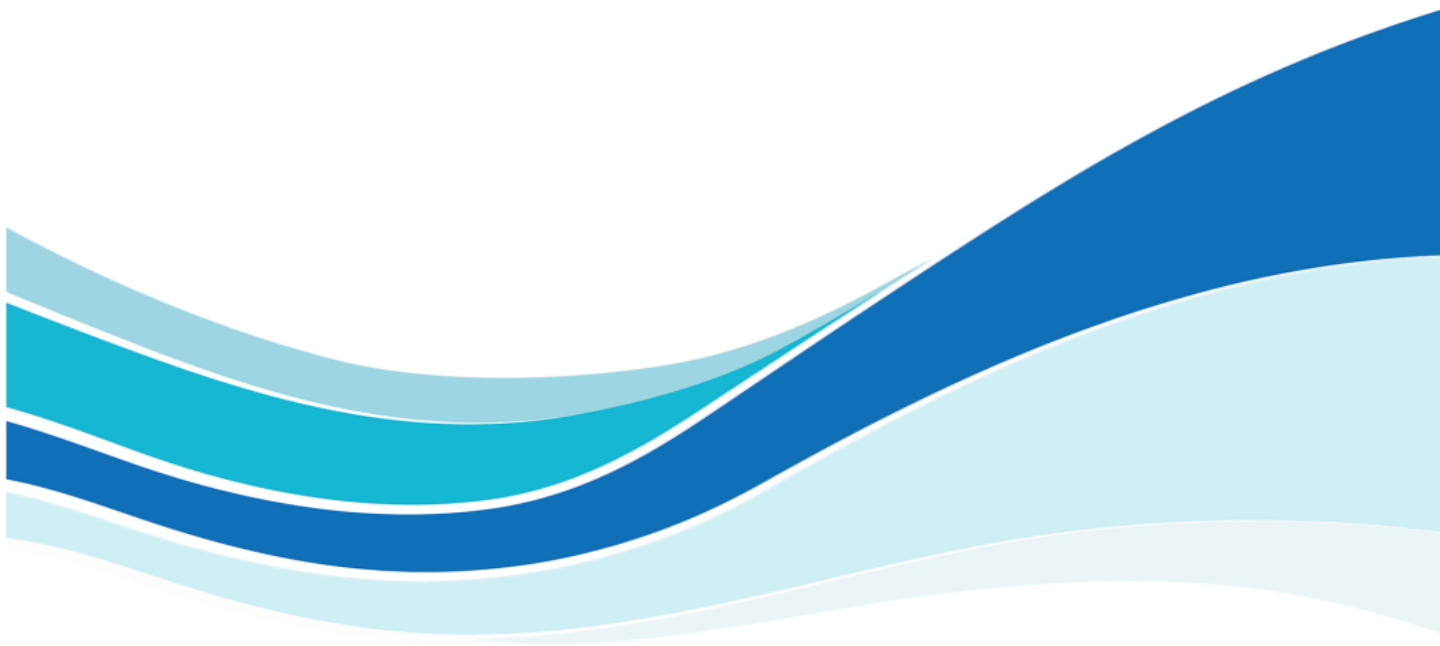
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1/1



- End of Analysis Report -

ภาคผนวกที่ 39-2
ระดับเสียง



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้านแดง แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING SOURCE : KS1-N1 : บ้านคุณสุวัฒน์ หมู่ที่ 4 บ้านคอกสะแกวัลย์ ตำบลทุ่งลูกนก อำเภอคำพ่วงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (NOISE) **RECEIVED DATE** : MARCH 18-21, 2023
MEASURING DATE : MARCH 18-21, 2023 **ANALYTICAL DATE** : MARCH 18-21, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U022148
MEASURING METHOD : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2019-002414
MEASURED BY : MR AUSADAWUT YONSIRI **ANALYSIS NO.** : T23AF185-0001 - T23AF185-0003

TIME*	RESULT dB(A)		
	KS1-N1 : บ้านคุณสุวัฒน์ หมู่ที่ 4 บ้านคอกสะแกวัลย์ ตำบลทุ่งลูกนก อำเภอคำพ่วงแสน จังหวัดนครปฐม		
	MARCH 18-19, 2023		
	T23AF185-0001		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.6	100.3	54.0
08:00-09:00 HOUR	55.6	79.2	53.7
09:00-10:00 HOUR	55.9	69.4	53.9
10:00-11:00 HOUR	56.1	76.3	53.9
11:00-12:00 HOUR	58.2	78.2	53.6
12:00-13:00 HOUR	55.8	77.0	52.9
13:00-14:00 HOUR	54.4	67.9	52.3
14:00-15:00 HOUR	53.6	68.9	51.3
15:00-16:00 HOUR	51.8	65.8	49.4
16:00-17:00 HOUR	50.7	72.6	48.7
17:00-18:00 HOUR	49.4	69.6	47.2
18:00-19:00 HOUR	48.0	61.2	46.4
19:00-20:00 HOUR	48.6	74.6	46.1
20:00-21:00 HOUR	47.1	64.3	46.0
21:00-22:00 HOUR	48.9	82.9	46.8
22:00-23:00 HOUR	48.9	63.2	46.5
23:00-00:00 HOUR	65.0	78.8	51.1
00:00-01:00 HOUR	53.1	76.4	50.0
01:00-02:00 HOUR	58.1	75.8	53.7
02:00-03:00 HOUR	54.5	70.9	51.6
03:00-04:00 HOUR	54.2	68.4	51.3
04:00-05:00 HOUR	53.9	73.1	50.5
05:00-06:00 HOUR	53.9	69.6	50.9
06:00-07:00 HOUR	53.2	73.7	49.6
L _{Aeq} 24 hours	55.8		
L _{Adn}	63.8		

TIME*	RESULT dB(A)		
	KS1-N1 : บ้านคุณสุวัฒน์ หมู่ที่ 4 บ้านคอกสะแกวัลย์ ตำบลทุ่งลูกนก อำเภอคำพ่วงแสน จังหวัดนครปฐม		
	MARCH 19-20, 2023		
	T23AF185-0002		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	52.7	68.5	49.6
08:00-09:00 HOUR	54.0	70.8	51.0
09:00-10:00 HOUR	55.6	71.8	52.5
10:00-11:00 HOUR	55.3	72.9	52.9
11:00-12:00 HOUR	57.1	86.4	52.6
12:00-13:00 HOUR	56.6	82.4	53.3
13:00-14:00 HOUR	55.8	76.2	53.1
14:00-15:00 HOUR	54.9	75.0	52.2
15:00-16:00 HOUR	52.0	65.6	50.1
16:00-17:00 HOUR	51.3	68.4	49.2
17:00-18:00 HOUR	48.9	63.0	47.2
18:00-19:00 HOUR	48.0	62.0	46.5
19:00-20:00 HOUR	47.2	60.7	46.0
20:00-21:00 HOUR	58.8	72.4	49.3
21:00-22:00 HOUR	51.9	61.0	48.8
22:00-23:00 HOUR	53.2	62.3	52.5
23:00-00:00 HOUR	53.1	69.1	52.0
00:00-01:00 HOUR	55.4	78.0	51.3
01:00-02:00 HOUR	57.6	75.0	54.0
02:00-03:00 HOUR	53.6	71.1	50.0
03:00-04:00 HOUR	52.7	72.4	49.4
04:00-05:00 HOUR	51.9	68.4	48.6
05:00-06:00 HOUR	52.4	74.6	49.0
06:00-07:00 HOUR	52.2	70.5	49.4
L _{Aeq} 24 hours	54.3		
L _{Adn}	60.5		



TIME*	RESULT dB(A)		
	KS1-N1 : บ้านคุณเสวีรัตน์ หมู่ที่ 4 บ้านคอกสะแกวัลย์ ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม		
	MARCH 20-21, 2023		
	T23AF185-0003		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	52.8	69.9	50.1
08:00-09:00 HOUR	53.5	73.8	49.6
09:00-10:00 HOUR	55.3	76.9	50.3
10:00-11:00 HOUR	52.9	72.2	49.3
11:00-12:00 HOUR	54.6	79.0	51.3
12:00-13:00 HOUR	53.2	77.8	50.4
13:00-14:00 HOUR	51.9	65.3	50.2
14:00-15:00 HOUR	51.3	71.9	48.9
15:00-16:00 HOUR	51.5	72.1	48.9
16:00-17:00 HOUR	49.5	62.6	47.8
17:00-18:00 HOUR	49.4	80.6	46.9
18:00-19:00 HOUR	48.2	58.4	47.1
19:00-20:00 HOUR	49.4	72.7	47.6
20:00-21:00 HOUR	48.1	66.7	46.9
21:00-22:00 HOUR	47.7	61.7	46.4
22:00-23:00 HOUR	47.8	64.0	45.8
23:00-00:00 HOUR	48.1	63.9	46.2
00:00-01:00 HOUR	55.1	78.0	49.0
01:00-02:00 HOUR	56.5	76.4	52.8
02:00-03:00 HOUR	54.5	74.5	51.1
03:00-04:00 HOUR	53.1	68.8	49.0
04:00-05:00 HOUR	51.9	69.8	48.3
05:00-06:00 HOUR	52.8	73.1	48.7
06:00-07:00 HOUR	54.0	74.2	50.1
L _{Aeq} 24 hours		52.5	
L _{Adn}		59.6	

Sila Banjongjairuk
(MR. SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

MARCH 28, 2023

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ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งท่าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE : KS1-N1 : บ้านคุณเสวีรัตน์ หมู่ที่ 4 บ้านคอกสะแกวัลย์ ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (ANNOYANCE SOUND LEVEL)
MEASURING DATE : MARCH 18-21, 2023
MEASURING TIME : *
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER AND CALCULATION
MEASURED BY : MR AUSADAWUT YONSIRI
RECEIVED DATE : MARCH 18-21, 2023
ANALYTICAL DATE : MARCH 18-21, 2023
REPORT NO. : 2023-U022146
WORK NO. : 2019-002414
ANALYSIS NO. : T23AF185-0001 - T23AF185-0003

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านคุณเสวีรัตน์ หมู่ที่ 4 บ้านคอกสะแกวัลย์ ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
MARCH 18, 2023	DAY TIME ^{1/}					
T23AF185-0001	07:00-08:00 HOUR	56.6 ^{1/}	55.5 **	50.1 ^{1/}	53.8 **	<0.8
	08:00-09:00 HOUR	55.6 ^{1/}	52.3 **	52.9 ^{1/}	50.6 **	2.3
	09:00-10:00 HOUR	55.9 ^{1/}	52.4 **	53.3 ^{1/}	50.9 **	2.4
	10:00-11:00 HOUR	56.1 ^{1/}	52.7 **	53.4 ^{1/}	50.5 **	2.9
	11:00-12:00 HOUR	58.2 ^{1/}	52.8 **	56.7 ^{1/}	50.3 **	6.4
	12:00-13:00 HOUR	55.8 ^{1/}	51.8 **	53.6 ^{1/}	49.5 **	4.1
	13:00-14:00 HOUR	54.4 ^{1/}	51.3 **	51.5 ^{1/}	49.4 **	2.1
	14:00-15:00 HOUR	53.6 ^{1/}	50.4 **	50.8 ^{1/}	48.7 **	2.1
	15:00-16:00 HOUR	51.8 ^{1/}	48.4 **	49.1 ^{1/}	46.8 **	2.3
	16:00-17:00 HOUR	50.7 ^{1/}	46.6 **	48.6 ^{1/}	45.2 **	3.4
	17:00-18:00 HOUR	49.4 ^{1/}	47.0 **	45.7 ^{1/}	44.3 **	1.4
	18:00-19:00 HOUR	48.0 ^{1/}	44.6 **	45.3 ^{1/}	43.4 **	1.9
	19:00-20:00 HOUR	48.6 ^{1/}	44.1 **	46.7 ^{1/}	43.0 **	3.7
	20:00-21:00 HOUR	47.1 ^{1/}	44.5 **	43.6 ^{1/}	43.4 **	<0.8
	21:00-22:00 HOUR	48.9 ^{1/}	50.7 **	<0.8 ^{1/}	49.8 **	<0.8
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	47.9 ^{2/}	45.6 ***	47.0 ^{2/}	44.3 ***	2.7
	22:05-22:10 HOUR	51.1 ^{2/}	45.6 ***	52.7 ^{2/}	44.3 ***	8.4
	22:10-22:15 HOUR	47.6 ^{2/}	45.6 ***	46.3 ^{2/}	44.3 ***	2.0
	22:15-22:20 HOUR	48.8 ^{2/}	45.3 ***	49.2 ^{2/}	44.3 ***	4.9
	22:20-22:25 HOUR	46.7 ^{2/}	45.3 ***	44.1 ^{2/}	44.3 ***	<0.8
	22:25-22:30 HOUR	47.3 ^{2/}	45.3 ***	46.0 ^{2/}	44.3 ***	1.7
	22:30-22:35 HOUR	47.4 ^{2/}	45.9 ***	45.1 ^{2/}	44.6 ***	<0.8
	22:35-22:40 HOUR	47.6 ^{2/}	45.9 ***	45.7 ^{2/}	44.6 ***	1.1
	22:40-22:45 HOUR	48.8 ^{2/}	45.9 ***	48.7 ^{2/}	44.6 ***	4.1
	22:45-22:50 HOUR	49.9 ^{2/}	58.8 ***	<0.8 ^{2/}	51.8 ***	<0.8
	22:50-22:55 HOUR	49.0 ^{2/}	58.8 ***	<0.8 ^{2/}	51.8 ***	<0.8
	22:55-23:00 HOUR	51.4 ^{2/}	58.8 ***	<0.8 ^{2/}	51.8 ***	<0.8
	23:00-23:05 HOUR	71.0 ^{2/}	68.9 ***	69.8 ^{2/}	66.1 ***	3.7
	23:05-23:10 HOUR	68.5 ^{2/}	68.9 ***	<0.8 ^{2/}	66.1 ***	<0.8
	23:10-23:15 HOUR	72.0 ^{2/}	68.9 ***	72.1 ^{2/}	66.1 ***	6.0
	23:15-23:20 HOUR	60.4 ^{2/}	59.1 ***	57.5 ^{2/}	55.9 ***	1.6

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DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านคุณเสาวรัตน์ หมู่ที่ 4 บ้านคลองสะแกกรัง ตำบลทุ่งลูกนก อำเภอคำพ่วงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
MARCH 18, 2023 T23AF185-0001	NIGHT TIME ^{2/}					
	23:20-23:25 HOUR	55.2 ^{2/}	59.1 ***	<0.8 ^{2/}	55.9 ***	<0.8
	23:25-23:30 HOUR	57.6 ^{2/}	59.1 ***	<0.8 ^{2/}	55.9 ***	<0.8
	23:30-23:35 HOUR	52.3 ^{2/}	47.3 ***	53.6 ^{2/}	45.9 ***	7.7
	23:35-23:40 HOUR	49.2 ^{2/}	47.3 ***	47.7 ^{2/}	45.9 ***	1.8
	23:40-23:45 HOUR	49.2 ^{2/}	47.3 ***	47.7 ^{2/}	45.9 ***	1.8
	23:45-23:50 HOUR	50.8 ^{2/}	48.0 ***	50.6 ^{2/}	46.4 ***	4.2
MARCH 19, 2023 T23AF185-0001	23:50-23:55 HOUR	49.9 ^{2/}	48.0 ***	48.4 ^{2/}	46.4 ***	2.0
	23:55-00:00 HOUR	51.0 ^{2/}	48.0 ***	51.0 ^{2/}	46.4 ***	4.6
	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	51.8 ^{2/}	48.1 ***	52.4 ^{2/}	46.6 ***	5.8
	00:05-00:10 HOUR	51.7 ^{2/}	48.1 ***	52.2 ^{2/}	46.6 ***	5.6
	00:10-00:15 HOUR	51.0 ^{2/}	48.1 ***	50.9 ^{2/}	46.6 ***	4.3
	00:15-00:20 HOUR	50.6 ^{2/}	49.1 ***	48.3 ^{2/}	46.8 ***	1.5
	00:20-00:25 HOUR	51.4 ^{2/}	49.1 ***	50.5 ^{2/}	46.8 ***	3.7
	00:25-00:30 HOUR	51.9 ^{2/}	49.1 ***	51.7 ^{2/}	46.8 ***	4.9
	00:30-00:35 HOUR	51.4 ^{2/}	51.6 ***	<0.8 ^{2/}	48.2 ***	<0.8
	00:35-00:40 HOUR	55.1 ^{2/}	51.6 ***	55.5 ^{2/}	48.2 ***	7.3
	00:40-00:45 HOUR	53.0 ^{2/}	51.6 ***	50.4 ^{2/}	48.2 ***	2.2
	00:45-00:50 HOUR	54.6 ^{2/}	53.4 ***	51.4 ^{2/}	49.8 ***	1.6
	00:50-00:55 HOUR	54.6 ^{2/}	53.4 ***	51.4 ^{2/}	49.8 ***	1.6
	00:55-01:00 HOUR	55.7 ^{2/}	53.4 ***	54.8 ^{2/}	49.8 ***	5.0
	01:00-01:05 HOUR	57.1 ^{2/}	56.5 ***	51.2 ^{2/}	52.1 ***	<0.8
	01:05-01:10 HOUR	59.1 ^{2/}	56.5 ***	58.6 ^{2/}	52.1 ***	6.5
	01:10-01:15 HOUR	55.1 ^{2/}	56.5 ***	<0.8 ^{2/}	52.1 ***	<0.8
	01:15-01:20 HOUR	58.8 ^{2/}	57.8 ***	54.9 ^{2/}	52.9 ***	2.0
	01:20-01:25 HOUR	59.1 ^{2/}	57.8 ***	56.2 ^{2/}	52.9 ***	3.3
	01:25-01:30 HOUR	59.8 ^{2/}	57.8 ***	58.5 ^{2/}	52.9 ***	5.6
	01:30-01:35 HOUR	59.4 ^{2/}	55.6 ***	60.1 ^{2/}	51.8 ***	8.3
	01:35-01:40 HOUR	58.3 ^{2/}	55.6 ***	58.0 ^{2/}	51.8 ***	6.2
	01:40-01:45 HOUR	58.7 ^{2/}	55.6 ***	58.8 ^{2/}	51.8 ***	7.0
	01:45-01:50 HOUR	56.9 ^{2/}	53.4 ***	57.3 ^{2/}	50.4 ***	6.9
	01:50-01:55 HOUR	57.2 ^{2/}	53.4 ***	57.9 ^{2/}	50.4 ***	7.5
	01:55-02:00 HOUR	54.8 ^{2/}	53.4 ***	52.2 ^{2/}	50.4 ***	1.8
	02:00-02:05 HOUR	53.9 ^{2/}	52.2 ***	52.0 ^{2/}	49.6 ***	2.4
	02:05-02:10 HOUR	55.4 ^{2/}	52.2 ***	55.6 ^{2/}	49.6 ***	6.0
	02:10-02:15 HOUR	55.4 ^{2/}	52.2 ***	55.6 ^{2/}	49.6 ***	6.0
	02:15-02:20 HOUR	54.1 ^{2/}	52.0 ***	52.9 ^{2/}	48.9 ***	4.0
	02:20-02:25 HOUR	55.0 ^{2/}	52.0 ***	55.0 ^{2/}	48.9 ***	6.1
	02:25-02:30 HOUR	54.2 ^{2/}	52.0 ***	53.2 ^{2/}	48.9 ***	4.3
	02:30-02:35 HOUR	53.8 ^{2/}	51.3 ***	53.2 ^{2/}	48.0 ***	5.2
	02:35-02:40 HOUR	54.5 ^{2/}	51.3 ***	54.7 ^{2/}	48.0 ***	6.7
	02:40-02:45 HOUR	54.5 ^{2/}	51.3 ***	54.7 ^{2/}	48.0 ***	6.7
	02:45-02:50 HOUR	53.9 ^{2/}	51.8 ***	52.7 ^{2/}	48.5 ***	4.2
	02:50-02:55 HOUR	54.1 ^{2/}	51.8 ***	53.2 ^{2/}	48.5 ***	4.7
	02:55-03:00 HOUR	55.1 ^{2/}	51.8 ***	55.4 ^{2/}	48.5 ***	6.9

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านคุณเสาวรัตน์ หมู่ที่ 4 บ้านคลองสะแกกรัง ตำบลทุ่งลูกนก อำเภอคำพ่วงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
MARCH 19, 2023 T23AF185-0001	NIGHT TIME ^{2/}					
	03:00-03:05 HOUR	54.8 ^{2/}	51.7 ***	54.9 ^{2/}	49.2 ***	5.7
	03:05-03:10 HOUR	55.2 ^{2/}	51.7 ***	55.6 ^{2/}	49.2 ***	6.4
	03:10-03:15 HOUR	54.4 ^{2/}	51.7 ***	54.1 ^{2/}	49.2 ***	4.9
	03:15-03:20 HOUR	54.1 ^{2/}	52.3 ***	52.4 ^{2/}	48.6 ***	3.8
	03:20-03:25 HOUR	53.8 ^{2/}	52.3 ***	51.5 ^{2/}	48.6 ***	2.9
	03:25-03:30 HOUR	53.8 ^{2/}	52.3 ***	51.5 ^{2/}	48.6 ***	2.9
	03:30-03:35 HOUR	54.7 ^{2/}	51.4 ***	55.0 ^{2/}	47.4 ***	7.6
	03:35-03:40 HOUR	55.1 ^{2/}	51.4 ***	55.7 ^{2/}	47.4 ***	8.3
	03:40-03:45 HOUR	53.3 ^{2/}	51.4 ***	51.4 ^{2/}	47.4 ***	4.4
	03:45-03:50 HOUR	53.7 ^{2/}	51.4 ***	52.8 ^{2/}	48.1 ***	4.7
	03:50-03:55 HOUR	52.7 ^{2/}	51.4 ***	49.8 ^{2/}	48.1 ***	1.7
	03:55-04:00 HOUR	53.6 ^{2/}	51.4 ***	52.6 ^{2/}	48.1 ***	4.5
	04:00-04:05 HOUR	53.9 ^{2/}	50.7 ***	50.7 ^{2/}	48.2 ***	2.5
	04:05-04:10 HOUR	53.8 ^{2/}	52.7 ***	50.3 ^{2/}	48.2 ***	2.1
	04:10-04:15 HOUR	52.6 ^{2/}	52.7 ***	<0.8 ^{2/}	48.2 ***	<0.8
	04:15-04:20 HOUR	55.2 ^{2/}	52.1 ***	55.3 ^{2/}	48.0 ***	7.3
	04:20-04:25 HOUR	53.4 ^{2/}	52.1 ***	50.5 ^{2/}	48.0 ***	2.5
	04:25-04:30 HOUR	54.7 ^{2/}	52.1 ***	54.2 ^{2/}	48.0 ***	6.2
	04:30-04:35 HOUR	52.5 ^{2/}	51.0 ***	50.2 ^{2/}	47.8 ***	2.4
	04:35-04:40 HOUR	53.8 ^{2/}	51.0 ***	53.6 ^{2/}	47.8 ***	5.8
	04:40-04:45 HOUR	54.2 ^{2/}	51.0 ***	54.4 ^{2/}	47.8 ***	6.6
	04:45-04:50 HOUR	54.8 ^{2/}	51.0 ***	55.5 ^{2/}	48.5 ***	7.0
	04:50-04:55 HOUR	53.5 ^{2/}	51.0 ***	52.9 ^{2/}	48.5 ***	4.4
	04:55-05:00 HOUR	53.9 ^{2/}	51.0 ***	53.8 ^{2/}	48.5 ***	5.3
	05:00-05:05 HOUR	52.9 ^{2/}	53.9 ***	<0.8 ^{2/}	51.1 ***	<0.8
	05:05-05:10 HOUR	52.9 ^{2/}	53.9 ***	<0.8 ^{2/}	51.1 ***	<0.8
	05:10-05:15 HOUR	57.3 ^{2/}	53.9 ***	57.6 ^{2/}	51.1 ***	6.5
	05:15-05:20 HOUR	53.0 ^{2/}	50.0 ***	53.0 ^{2/}	47.2 ***	5.8
	05:20-05:25 HOUR	54.1 ^{2/}	50.0 ***	55.0 ^{2/}	47.2 ***	7.8
	05:25-05:30 HOUR	53.3 ^{2/}	50.0 ***	53.6 ^{2/}	47.2 ***	6.4
	05:30-05:35 HOUR	53.4 ^{2/}	50.4 ***	53.4 ^{2/}	47.8 ***	5.6
	05:35-05:40 HOUR	52.6 ^{2/}	50.4 ***	51.6 ^{2/}	47.8 ***	3.8
	05:40-05:45 HOUR	53.9 ^{2/}	50.4 ***	54.3 ^{2/}	47.8 ***	6.5
	05:45-05:50 HOUR	53.8 ^{2/}	51.3 ***	53.2 ^{2/}	48.5 ***	4.7
	05:50-05:55 HOUR	52.9 ^{2/}	51.3 ***	50.8 ^{2/}	48.5 ***	2.3
	05:55-06:00 HOUR	54.1 ^{2/}	51.3 ***	53.9 ^{2/}	48.5 ***	5.4
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	53.2 ^{1/}	50.3 **	50.1 ^{1/}	47.3 **	2.8
MARCH 19, 2023 T23AF185-0002	DAY TIME ^{1/}					
	07:00-08:00 HOUR	52.7 ^{1/}	49.5 **	49.9 ^{1/}	46.5 **	3.4
	08:00-09:00 HOUR	54.0 ^{1/}	50.7 **	51.3 ^{1/}	48.2 **	3.1
	09:00-10:00 HOUR	55.6 ^{1/}	52.5 **	52.7 ^{1/}	49.6 **	3.1
	10:00-11:00 HOUR	55.3 ^{1/}	51.8 **	52.7 ^{1/}	49.5 **	3.2
	11:00-12:00 HOUR	57.1 ^{1/}	51.5 **	55.7 ^{1/}	49.7 **	6.0
	12:00-13:00 HOUR	56.6 ^{1/}	53.1 **	54.0 ^{1/}	50.2 **	3.8

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านตุ๊กเสวรัตน์ หมู่ที่ 4 บ้านคลองกระเทียม ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
MARCH 19, 2023 T23AF185-0002	DAY TIME ^{1/}					
	13:00-14:00 HOUR	55.8 ^{1/}	53.0 **	52.6 ^{1/}	50.3 **	2.3
	14:00-15:00 HOUR	54.9 ^{1/}	50.5 **	52.9 ^{1/}	49.1 **	3.8
	15:00-16:00 HOUR	52.0 ^{1/}	48.6 **	49.3 ^{1/}	47.3 **	2.0
	16:00-17:00 HOUR	51.3 ^{1/}	47.3 **	49.1 ^{1/}	46.2 **	2.9
	17:00-18:00 HOUR	48.9 ^{1/}	46.1 **	45.7 ^{1/}	44.8 **	0.9
	18:00-19:00 HOUR	48.0 ^{1/}	45.0 **	45.0 ^{1/}	43.7 **	1.3
	19:00-20:00 HOUR	47.2 ^{1/}	44.1 **	44.3 ^{1/}	43.2 **	1.1
	20:00-21:00 HOUR	58.8 ^{1/}	60.2 **	<0.8 ^{1/}	57.6 **	<0.8
	21:00-22:00 HOUR	51.9 ^{1/}	46.4 **	50.5 ^{1/}	45.2 **	5.3
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	52.1 ^{2/}	50.1 ***	50.8 ^{2/}	49.2 ***	1.6
	22:05-22:10 HOUR	52.9 ^{2/}	50.1 ***	52.7 ^{2/}	49.2 ***	3.5
	22:10-22:15 HOUR	53.3 ^{2/}	50.1 ***	53.5 ^{2/}	49.2 ***	4.3
	22:15-22:20 HOUR	53.0 ^{2/}	49.6 ***	53.3 ^{2/}	48.9 ***	4.4
	22:20-22:25 HOUR	53.2 ^{2/}	49.6 ***	53.7 ^{2/}	48.9 ***	4.8
	22:25-22:30 HOUR	53.1 ^{2/}	49.6 ***	53.5 ^{2/}	48.9 ***	4.6
	22:30-22:35 HOUR	53.3 ^{2/}	49.2 ***	54.2 ^{2/}	48.5 ***	5.7
	22:35-22:40 HOUR	53.6 ^{2/}	49.2 ***	54.6 ^{2/}	48.5 ***	6.1
	22:40-22:45 HOUR	53.2 ^{2/}	49.2 ***	54.0 ^{2/}	48.5 ***	5.5
	22:45-22:50 HOUR	53.4 ^{2/}	50.6 ***	53.2 ^{2/}	49.3 ***	3.9
	22:50-22:55 HOUR	53.5 ^{2/}	50.6 ***	53.4 ^{2/}	49.3 ***	4.1
	22:55-23:00 HOUR	53.1 ^{2/}	50.6 ***	52.5 ^{2/}	49.3 ***	3.2
	23:00-23:05 HOUR	53.2 ^{2/}	49.0 ***	54.1 ^{2/}	47.9 ***	6.2
	23:05-23:10 HOUR	53.2 ^{2/}	49.0 ***	54.1 ^{2/}	47.9 ***	6.2
	23:10-23:15 HOUR	53.4 ^{2/}	49.0 ***	54.4 ^{2/}	47.9 ***	6.5
	23:15-23:20 HOUR	52.7 ^{2/}	50.1 ***	52.2 ^{2/}	49.4 ***	2.8
	23:20-23:25 HOUR	51.9 ^{2/}	50.1 ***	50.2 ^{2/}	49.4 ***	0.8
	23:25-23:30 HOUR	52.2 ^{2/}	50.1 ***	51.0 ^{2/}	49.4 ***	1.6
	23:30-23:35 HOUR	52.8 ^{2/}	50.1 ***	52.5 ^{2/}	49.0 ***	3.5
	23:35-23:40 HOUR	52.6 ^{2/}	50.1 ***	52.0 ^{2/}	49.0 ***	3.0
	23:40-23:45 HOUR	55.1 ^{2/}	50.1 ***	56.4 ^{2/}	49.0 ***	7.4
	23:45-23:50 HOUR	52.8 ^{2/}	48.2 ***	54.0 ^{2/}	47.3 ***	6.7
	23:50-23:55 HOUR	53.2 ^{2/}	48.2 ***	54.5 ^{2/}	47.3 ***	7.2
	23:55-00:00 HOUR	52.7 ^{2/}	48.2 ***	53.8 ^{2/}	47.3 ***	6.5
MARCH 20, 2023 T23AF185-0002	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	52.4 ^{2/}	51.0 ***	49.8 ^{2/}	47.9 ***	1.9
	00:05-00:10 HOUR	52.2 ^{2/}	51.0 ***	49.0 ^{2/}	47.9 ***	1.1
	00:10-00:15 HOUR	52.8 ^{2/}	51.0 ***	51.1 ^{2/}	47.9 ***	3.2
	00:15-00:20 HOUR	51.4 ^{2/}	56.5 ***	<0.8 ^{2/}	48.7 ***	<0.8
	00:20-00:25 HOUR	51.6 ^{2/}	56.5 ***	<0.8 ^{2/}	48.7 ***	<0.8
	00:25-00:30 HOUR	51.9 ^{2/}	56.5 ***	<0.8 ^{2/}	48.7 ***	<0.8
	00:30-00:35 HOUR	52.2 ^{2/}	59.3 ***	<0.8 ^{2/}	51.6 ***	<0.8
	00:35-00:40 HOUR	60.3 ^{2/}	59.3 ***	56.4 ^{2/}	51.6 ***	4.8
	00:40-00:45 HOUR	57.8 ^{2/}	59.3 ***	<0.8 ^{2/}	51.6 ***	<0.8
	00:45-00:50 HOUR	56.1 ^{2/}	56.4 ***	<0.8 ^{2/}	51.8 ***	<0.8

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านตุ๊กเสวรัตน์ หมู่ที่ 4 บ้านคลองกระเทียม ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
MARCH 20, 2023 T23AF185-0002	NIGHT TIME ^{2/}					
	00:50-00:55 HOUR	55.0 ^{2/}	56.4 ***	<0.8 ^{2/}	51.8 ***	<0.8
	00:55-01:00 HOUR	58.3 ^{2/}	56.4 ***	56.8 ^{2/}	51.8 ***	5.0
	01:00-01:05 HOUR	57.1 ^{2/}	54.9 ***	56.1 ^{2/}	51.3 ***	4.8
	01:05-01:10 HOUR	57.9 ^{2/}	54.9 ***	57.9 ^{2/}	51.3 ***	6.6
	01:10-01:15 HOUR	56.1 ^{2/}	54.9 ***	52.9 ^{2/}	51.3 ***	1.6
	01:15-01:20 HOUR	57.5 ^{2/}	55.0 ***	56.9 ^{2/}	51.3 ***	5.6
	01:20-01:25 HOUR	58.7 ^{2/}	55.0 ***	59.3 ^{2/}	51.3 ***	8.0
	01:25-01:30 HOUR	58.8 ^{2/}	55.0 ***	59.5 ^{2/}	51.3 ***	8.2
	01:30-01:35 HOUR	57.4 ^{2/}	54.6 ***	57.2 ^{2/}	50.2 ***	7.0
	01:35-01:40 HOUR	57.5 ^{2/}	54.6 ***	57.4 ^{2/}	50.2 ***	7.2
	01:40-01:45 HOUR	56.4 ^{2/}	54.6 ***	54.7 ^{2/}	50.2 ***	4.5
	01:45-01:50 HOUR	57.9 ^{2/}	54.3 ***	58.4 ^{2/}	50.1 ***	8.3
	01:50-01:55 HOUR	56.7 ^{2/}	54.3 ***	56.0 ^{2/}	50.1 ***	5.9
	01:55-02:00 HOUR	57.8 ^{2/}	54.3 ***	58.2 ^{2/}	50.1 ***	8.1
	02:00-02:05 HOUR	54.2 ^{2/}	50.9 ***	54.5 ^{2/}	48.3 ***	6.2
	02:05-02:10 HOUR	54.1 ^{2/}	50.9 ***	54.3 ^{2/}	48.3 ***	6.0
	02:10-02:15 HOUR	54.3 ^{2/}	50.9 ***	54.6 ^{2/}	48.3 ***	6.3
	02:15-02:20 HOUR	54.3 ^{2/}	50.5 ***	55.0 ^{2/}	47.2 ***	7.8
	02:20-02:25 HOUR	53.8 ^{2/}	50.5 ***	54.1 ^{2/}	47.2 ***	6.9
	02:25-02:30 HOUR	54.3 ^{2/}	50.5 ***	55.0 ^{2/}	47.2 ***	7.8
	02:30-02:35 HOUR	53.0 ^{2/}	50.5 ***	52.4 ^{2/}	47.2 ***	5.2
	02:35-02:40 HOUR	52.9 ^{2/}	50.5 ***	52.2 ^{2/}	47.2 ***	5.0
	02:40-02:45 HOUR	52.8 ^{2/}	50.5 ***	51.9 ^{2/}	47.2 ***	4.7
	02:45-02:50 HOUR	53.1 ^{2/}	49.6 ***	53.5 ^{2/}	46.3 ***	7.2
	02:50-02:55 HOUR	53.3 ^{2/}	49.6 ***	53.9 ^{2/}	46.3 ***	7.6
	02:55-03:00 HOUR	52.3 ^{2/}	49.6 ***	52.0 ^{2/}	46.3 ***	5.7
	03:00-03:05 HOUR	52.6 ^{2/}	51.0 ***	50.5 ^{2/}	47.5 ***	3.0
	03:05-03:10 HOUR	52.1 ^{2/}	51.0 ***	48.6 ^{2/}	47.5 ***	1.1
	03:10-03:15 HOUR	53.8 ^{2/}	51.0 ***	53.6 ^{2/}	47.5 ***	6.1
	03:15-03:20 HOUR	52.6 ^{2/}	50.0 ***	52.1 ^{2/}	46.5 ***	5.6
	03:20-03:25 HOUR	52.9 ^{2/}	50.0 ***	52.8 ^{2/}	46.5 ***	6.3
	03:25-03:30 HOUR	51.4 ^{2/}	50.0 ***	48.8 ^{2/}	46.5 ***	2.3
	03:30-03:35 HOUR	52.3 ^{2/}	50.8 ***	50.0 ^{2/}	47.3 ***	2.7
	03:35-03:40 HOUR	54.8 ^{2/}	50.8 ***	55.6 ^{2/}	47.3 ***	8.3
	03:40-03:45 HOUR	52.9 ^{2/}	50.8 ***	51.7 ^{2/}	47.3 ***	4.4
	03:45-03:50 HOUR	52.2 ^{2/}	48.2 ***	53.0 ^{2/}	45.7 ***	7.3
	03:50-03:55 HOUR	51.5 ^{2/}	48.2 ***	51.8 ^{2/}	45.7 ***	6.1
	03:55-04:00 HOUR	51.4 ^{2/}	48.2 ***	51.6 ^{2/}	45.7 ***	5.9
	04:00-04:05 HOUR	51.6 ^{2/}	51.3 ***	42.8 ^{2/}	47.1 ***	<0.8
	04:05-04:10 HOUR	51.6 ^{2/}	51.3 ***	42.8 ^{2/}	47.1 ***	<0.8
	04:10-04:15 HOUR	51.9 ^{2/}	51.3 ***	46.0 ^{2/}	47.1 ***	<0.8
	04:15-04:20 HOUR	52.7 ^{2/}	51.7 ***	48.8 ^{2/}	47.0 ***	1.8
	04:20-04:25 HOUR	52.8 ^{2/}	51.7 ***	49.3 ^{2/}	47.0 ***	2.3
	04:25-04:30 HOUR	52.7 ^{2/}	51.7 ***	48.8 ^{2/}	47.0 ***	1.8
	04:30-04:35 HOUR	50.8 ^{2/}	55.5 ***	<0.8 ^{2/}	48.5 ***	<0.8

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านตุลเสวรัตน์ หมู่ที่ 4 บ้านคอกสะแกวัลย์ ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
MARCH 20, 2023	NIGHT TIME ^{2/}					
T23AF185-0002	04:35-04:40 HOUR	52.8 ^{2/}	55.5 ***	<0.8 ^{2/}	48.5 ***	<0.8
	04:40-04:45 HOUR	50.8 ^{2/}	55.5 ***	<0.8 ^{2/}	48.5 ***	<0.8
	04:45-04:50 HOUR	50.9 ^{2/}	49.1 ***	49.2 ^{2/}	45.7 ***	3.5
	04:50-04:55 HOUR	52.4 ^{2/}	49.1 ***	52.7 ^{2/}	45.7 ***	7.0
	04:55-05:00 HOUR	50.7 ^{2/}	49.1 ***	48.6 ^{2/}	45.7 ***	2.9
	05:00-05:05 HOUR	52.0 ^{2/}	48.2 ***	52.7 ^{2/}	45.0 ***	7.7
	05:05-05:10 HOUR	50.7 ^{2/}	48.2 ***	50.1 ^{2/}	45.0 ***	5.1
	05:10-05:15 HOUR	51.0 ^{2/}	48.2 ***	50.8 ^{2/}	45.0 ***	5.8
	05:15-05:20 HOUR	52.4 ^{2/}	48.3 ***	53.3 ^{2/}	45.9 ***	7.4
	05:20-05:25 HOUR	50.7 ^{2/}	48.3 ***	50.0 ^{2/}	45.9 ***	4.1
	05:25-05:30 HOUR	51.1 ^{2/}	48.3 ***	50.9 ^{2/}	45.9 ***	5.0
	05:30-05:35 HOUR	50.5 ^{2/}	50.1 ***	42.9 ^{2/}	47.2 ***	<0.8
	05:35-05:40 HOUR	53.2 ^{2/}	50.1 ***	53.3 ^{2/}	47.2 ***	6.1
	05:40-05:45 HOUR	53.1 ^{2/}	50.1 ***	53.1 ^{2/}	47.2 ***	5.9
	05:45-05:50 HOUR	53.5 ^{2/}	50.5 ***	53.5 ^{2/}	47.8 ***	5.7
	05:50-05:55 HOUR	54.6 ^{2/}	50.5 ***	55.5 ^{2/}	47.8 ***	7.7
	05:55-06:00 HOUR	53.1 ^{2/}	50.5 ***	52.6 ^{2/}	47.8 ***	4.8
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	52.2 ^{1/}	48.4 **	49.9 ^{1/}	46.0 **	3.9
MARCH 20, 2023	DAY TIME ^{1/}					
T23AF185-0003	07:00-08:00 HOUR	52.8 ^{1/}	49.4 **	50.1 ^{1/}	47.2 **	2.9
	08:00-09:00 HOUR	53.5 ^{1/}	49.8 **	51.1 ^{1/}	46.9 **	4.2
	09:00-10:00 HOUR	55.3 ^{1/}	50.0 **	53.8 ^{1/}	46.8 **	7.0
	10:00-11:00 HOUR	52.9 ^{1/}	50.1 **	49.7 ^{1/}	46.5 **	3.2
	11:00-12:00 HOUR	54.6 ^{1/}	51.0 **	52.1 ^{1/}	48.0 **	4.1
	12:00-13:00 HOUR	53.2 ^{1/}	50.7 **	49.6 ^{1/}	48.0 **	1.6
	13:00-14:00 HOUR	51.9 ^{1/}	48.4 **	49.3 ^{1/}	47.1 **	2.2
	14:00-15:00 HOUR	51.3 ^{1/}	48.9 **	47.6 ^{1/}	46.0 **	1.6
	15:00-16:00 HOUR	51.5 ^{1/}	48.3 **	48.7 ^{1/}	46.4 **	2.3
	16:00-17:00 HOUR	49.5 ^{1/}	47.1 **	45.8 ^{1/}	45.2 **	<0.8
	17:00-18:00 HOUR	49.4 ^{1/}	45.2 **	47.3 ^{1/}	44.1 **	3.2
	18:00-19:00 HOUR	48.2 ^{1/}	45.7 **	44.6 ^{1/}	44.7 **	<0.8
	19:00-20:00 HOUR	49.4 ^{1/}	46.3 **	46.5 ^{1/}	45.2 **	1.3
	20:00-21:00 HOUR	48.1 ^{1/}	44.0 **	46.0 ^{1/}	43.2 **	2.8
	21:00-22:00 HOUR	47.7 ^{1/}	44.8 **	44.6 ^{1/}	43.4 **	1.2
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	47.4 ^{2/}	46.0 ***	44.8 ^{2/}	43.5 ***	1.3
	22:05-22:10 HOUR	49.1 ^{2/}	46.0 ***	49.2 ^{2/}	43.5 ***	5.7
	22:10-22:15 HOUR	49.7 ^{2/}	46.0 ***	50.3 ^{2/}	43.5 ***	6.8
	22:15-22:20 HOUR	47.0 ^{2/}	44.8 ***	46.0 ^{2/}	42.2 ***	3.8
	22:20-22:25 HOUR	47.1 ^{2/}	44.8 ***	46.2 ^{2/}	42.2 ***	4.0
	22:25-22:30 HOUR	46.4 ^{2/}	44.8 ***	44.3 ^{2/}	42.2 ***	2.1
	22:30-22:35 HOUR	48.1 ^{2/}	46.1 ***	46.8 ^{2/}	43.5 ***	3.3
	22:35-22:40 HOUR	48.7 ^{2/}	46.1 ***	48.2 ^{2/}	43.5 ***	4.7
	22:40-22:45 HOUR	47.6 ^{2/}	46.1 ***	45.3 ^{2/}	43.5 ***	1.8

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านตุลเสวรัตน์ หมู่ที่ 4 บ้านคอกสะแกวัลย์ ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
MARCH 20, 2023	NIGHT TIME ^{2/}					
T23AF185-0003	22:45-22:50 HOUR	46.5 ^{2/}	43.9 ***	46.0 ^{2/}	42.6 ***	3.4
	22:50-22:55 HOUR	47.4 ^{2/}	43.9 ***	47.8 ^{2/}	42.6 ***	5.2
	22:55-23:00 HOUR	47.3 ^{2/}	43.9 ***	47.6 ^{2/}	42.6 ***	5.0
	23:00-23:05 HOUR	46.6 ^{2/}	44.4 ***	45.6 ^{2/}	42.7 ***	2.9
	23:05-23:10 HOUR	46.4 ^{2/}	44.4 ***	45.1 ^{2/}	42.7 ***	2.4
	23:10-23:15 HOUR	46.9 ^{2/}	44.4 ***	46.3 ^{2/}	42.7 ***	3.6
	23:15-23:20 HOUR	47.6 ^{2/}	45.4 ***	46.6 ^{2/}	43.6 ***	3.0
	23:20-23:25 HOUR	47.3 ^{2/}	45.4 ***	45.8 ^{2/}	43.6 ***	2.2
	23:25-23:30 HOUR	49.8 ^{2/}	45.4 ***	50.8 ^{2/}	43.6 ***	7.2
	23:30-23:35 HOUR	47.3 ^{2/}	45.4 ***	45.8 ^{2/}	43.8 ***	2.0
	23:35-23:40 HOUR	47.8 ^{2/}	45.4 ***	47.1 ^{2/}	43.8 ***	3.3
	23:40-23:45 HOUR	48.0 ^{2/}	45.4 ***	47.5 ^{2/}	43.8 ***	3.7
	23:45-23:50 HOUR	48.9 ^{2/}	47.1 ***	47.2 ^{2/}	45.5 ***	1.7
	23:50-23:55 HOUR	48.8 ^{2/}	47.1 ***	46.9 ^{2/}	45.5 ***	1.4
	23:55-00:00 HOUR	49.6 ^{2/}	47.1 ***	49.0 ^{2/}	45.5 ***	3.5
MARCH 21, 2023	NIGHT TIME ^{2/}					
T23AF185-0003	00:00-00:05 HOUR	48.9 ^{2/}	46.8 ***	47.7 ^{2/}	45.3 ***	2.4
	00:05-00:10 HOUR	49.8 ^{2/}	46.8 ***	49.8 ^{2/}	45.3 ***	4.5
	00:10-00:15 HOUR	50.6 ^{2/}	46.8 ***	51.3 ^{2/}	45.3 ***	6.0
	00:15-00:20 HOUR	49.5 ^{2/}	51.6 ***	<0.8 ^{2/}	47.3 ***	<0.8
	00:20-00:25 HOUR	49.7 ^{2/}	51.6 ***	<0.8 ^{2/}	47.3 ***	<0.8
	00:25-00:30 HOUR	54.7 ^{2/}	51.6 ***	54.8 ^{2/}	47.3 ***	7.5
	00:30-00:35 HOUR	57.3 ^{2/}	55.6 ***	55.4 ^{2/}	48.6 ***	6.8
	00:35-00:40 HOUR	52.7 ^{2/}	55.6 ***	<0.8 ^{2/}	48.6 ***	<0.8
	00:40-00:45 HOUR	57.2 ^{2/}	55.6 ***	55.1 ^{2/}	48.6 ***	6.5
	00:45-00:50 HOUR	57.6 ^{2/}	56.5 ***	54.1 ^{2/}	51.5 ***	2.6
	00:50-00:55 HOUR	58.0 ^{2/}	56.5 ***	55.7 ^{2/}	51.5 ***	4.2
	00:55-01:00 HOUR	58.1 ^{2/}	56.5 ***	56.0 ^{2/}	51.5 ***	4.5
	01:00-01:05 HOUR	55.4 ^{2/}	55.2 ***	44.9 ^{2/}	50.8 ***	<0.8
	01:05-01:10 HOUR	57.7 ^{2/}	55.2 ***	57.1 ^{2/}	50.8 ***	6.3
	01:10-01:15 HOUR	56.8 ^{2/}	55.2 ***	54.7 ^{2/}	50.8 ***	3.9
	01:15-01:20 HOUR	56.1 ^{2/}	53.8 ***	55.2 ^{2/}	50.2 ***	5.0
	01:20-01:25 HOUR	57.3 ^{2/}	53.8 ***	57.7 ^{2/}	50.2 ***	7.5
	01:25-01:30 HOUR	54.8 ^{2/}	53.8 ***	50.9 ^{2/}	50.2 ***	<0.8
	01:30-01:35 HOUR	57.1 ^{2/}	54.4 ***	56.8 ^{2/}	50.9 ***	5.9
	01:35-01:40 HOUR	57.2 ^{2/}	54.4 ***	57.0 ^{2/}	50.9 ***	6.1
	01:40-01:45 HOUR	56.6 ^{2/}	54.4 ***	55.6 ^{2/}	50.9 ***	4.7
	01:45-01:50 HOUR	56.1 ^{2/}	53.0 ***	56.2 ^{2/}	49.5 ***	6.7
	01:50-01:55 HOUR	55.2 ^{2/}	53.0 ***	54.2 ^{2/}	49.5 ***	4.7
	01:55-02:00 HOUR	56.5 ^{2/}	53.0 ***	56.9 ^{2/}	49.5 ***	7.4
	02:00-02:05 HOUR	55.6 ^{2/}	52.1 ***	56.0 ^{2/}	48.8 ***	7.2
	02:05-02:10 HOUR	55.2 ^{2/}	52.1 ***	55.3 ^{2/}	48.8 ***	6.5
	02:10-02:15 HOUR	56.1 ^{2/}	52.1 ***	56.9 ^{2/}	48.8 ***	8.1
	02:15-02:20 HOUR	54.3 ^{2/}	51.1 ***	54.5 ^{2/}	47.6 ***	6.9
	02:20-02:25 HOUR	54.0 ^{2/}	51.1 ***	53.9 ^{2/}	47.6 ***	6.3

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านคุณเสาวรัตน์ หมู่ที่ 4 บ้านคลองสระแก้ว ตำบลทุ่งลูกนก อำเภอคำพ่วงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
MARCH 21, 2023 T23AF185-0003	NIGHT TIME ^{2/} 02:25-02:30 HOUR	54.1 ^{2/}	51.1 ***	54.1 ^{2/}	47.6 ***	6.5
	02:30-02:35 HOUR	53.9 ^{2/}	52.3 ***	51.8 ^{2/}	47.9 ***	3.9
	02:35-02:40 HOUR	53.2 ^{2/}	52.3 ***	48.9 ^{2/}	47.9 ***	1.0
	02:40-02:45 HOUR	53.7 ^{2/}	52.3 ***	51.1 ^{2/}	47.9 ***	3.2
	02:45-02:50 HOUR	54.9 ^{2/}	52.8 ***	53.7 ^{2/}	48.3 ***	5.4
	02:50-02:55 HOUR	54.4 ^{2/}	52.8 ***	52.3 ^{2/}	48.3 ***	4.0
	02:55-03:00 HOUR	54.1 ^{2/}	52.8 ***	51.2 ^{2/}	48.3 ***	2.9
	03:00-03:05 HOUR	56.2 ^{2/}	53.0 ***	56.4 ^{2/}	48.1 ***	8.3
	03:05-03:10 HOUR	54.0 ^{2/}	53.0 ***	50.1 ^{2/}	48.1 ***	2.0
	03:10-03:15 HOUR	54.1 ^{2/}	53.0 ***	50.6 ^{2/}	48.1 ***	2.5
	03:15-03:20 HOUR	52.5 ^{2/}	50.5 ***	51.2 ^{2/}	46.6 ***	4.6
	03:20-03:25 HOUR	52.7 ^{2/}	50.5 ***	51.7 ^{2/}	46.6 ***	5.1
	03:25-03:30 HOUR	54.1 ^{2/}	50.5 ***	54.6 ^{2/}	46.6 ***	8.0
	03:30-03:35 HOUR	51.6 ^{2/}	48.0 ***	52.1 ^{2/}	45.0 ***	7.1
	03:35-03:40 HOUR	50.9 ^{2/}	48.0 ***	50.8 ^{2/}	45.0 ***	5.8
	03:40-03:45 HOUR	52.2 ^{2/}	48.0 ***	53.1 ^{2/}	45.0 ***	8.1
	03:45-03:50 HOUR	53.3 ^{2/}	50.5 ***	53.1 ^{2/}	46.9 ***	6.2
	03:50-03:55 HOUR	51.1 ^{2/}	50.5 ***	45.2 ^{2/}	46.9 ***	<0.8
	03:55-04:00 HOUR	51.2 ^{2/}	50.5 ***	45.9 ^{2/}	46.9 ***	<0.8
	04:00-04:05 HOUR	53.4 ^{2/}	49.9 ***	53.8 ^{2/}	45.8 ***	8.0
	04:05-04:10 HOUR	53.6 ^{2/}	49.9 ***	54.2 ^{2/}	45.8 ***	8.4
	04:10-04:15 HOUR	50.8 ^{2/}	49.9 ***	46.5 ^{2/}	45.8 ***	<0.8
	04:15-04:20 HOUR	51.0 ^{2/}	49.1 ***	49.5 ^{2/}	45.7 ***	3.8
	04:20-04:25 HOUR	50.6 ^{2/}	49.1 ***	48.3 ^{2/}	45.7 ***	2.6
	04:25-04:30 HOUR	51.3 ^{2/}	49.1 ***	50.3 ^{2/}	45.7 ***	4.6
	04:30-04:35 HOUR	49.8 ^{2/}	49.0 ***	45.1 ^{2/}	44.9 ***	<0.8
	04:35-04:40 HOUR	52.3 ^{2/}	49.0 ***	52.6 ^{2/}	44.9 ***	7.7
	04:40-04:45 HOUR	52.7 ^{2/}	49.0 ***	53.3 ^{2/}	44.9 ***	8.4
	04:45-04:50 HOUR	51.2 ^{2/}	49.1 ***	50.0 ^{2/}	45.5 ***	4.5
	04:50-04:55 HOUR	51.6 ^{2/}	49.1 ***	51.0 ^{2/}	45.5 ***	5.5
	04:55-05:00 HOUR	52.2 ^{2/}	49.1 ***	52.3 ^{2/}	45.5 ***	6.8
	05:00-05:05 HOUR	52.9 ^{2/}	49.1 ***	53.6 ^{2/}	45.8 ***	7.8
	05:05-05:10 HOUR	52.8 ^{2/}	49.1 ***	53.4 ^{2/}	45.8 ***	7.6
	05:10-05:15 HOUR	50.0 ^{2/}	49.1 ***	45.7 ^{2/}	45.8 ***	<0.8
	05:15-05:20 HOUR	51.6 ^{2/}	48.8 ***	51.4 ^{2/}	45.9 ***	5.5
	05:20-05:25 HOUR	53.1 ^{2/}	48.8 ***	54.1 ^{2/}	45.9 ***	8.2
	05:25-05:30 HOUR	50.5 ^{2/}	48.8 ***	48.6 ^{2/}	45.9 ***	2.7
	05:30-05:35 HOUR	51.1 ^{2/}	50.3 ***	46.4 ^{2/}	46.0 ***	<0.8
	05:35-05:40 HOUR	52.5 ^{2/}	50.3 ***	51.5 ^{2/}	46.0 ***	5.5
	05:40-05:45 HOUR	50.8 ^{2/}	50.3 ***	44.2 ^{2/}	46.0 ***	<0.8
	05:45-05:50 HOUR	56.2 ^{2/}	52.6 ***	56.7 ^{2/}	48.3 ***	8.4
	05:50-05:55 HOUR	54.3 ^{2/}	52.6 ***	52.4 ^{2/}	48.3 ***	4.1
	05:55-06:00 HOUR	53.7 ^{2/}	52.6 ***	50.2 ^{2/}	48.3 ***	1.9

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านคุณเสาวรัตน์ หมู่ที่ 4 บ้านคลองสระแก้ว ตำบลทุ่งลูกนก อำเภอคำพ่วงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
MARCH 21, 2023 T23AF185-0003	DAY TIME ^{1/} 06:00-07:00 HOUR	54.0 ^{1/}	51.5 **	50.4 ^{1/}	46.5 **	3.9

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


(MR SILA BANJONGJATRAK)
LABORATORY SUPERVISOR

MARCH 28, 2023

ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำเนิดแก๊ส แปลง PTTEP 1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING SOURCE : KS1-N1 : บ้านคุณสุวิทย์ หมู่ที่ 4 บ้านคลองสระแก้ว ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม
MEASURING TYPE : AMBIENT (NOISE) **RECEIVED DATE** : AUGUST 27-30, 2023
MEASURING DATE : AUGUST 27-30, 2023 **ANALYTICAL DATE** : AUGUST 27-30, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U073395
MEASURING METHOD : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2019-002414
MEASURED BY : MR SUPAKORN RINWONG **ANALYSIS NO.** : T23AQ984-0013 - T23AQ984-0015

TIME*	RESULT dB(A)		
	KS1-N1 : บ้านคุณสุวิทย์ หมู่ที่ 4 บ้านคลองสระแก้ว ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม		
	AUGUST 27-28, 2023		
	T23AQ984-0013		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	48.0	79.3	39.8
08:00-09:00 HOUR	47.7	69.3	39.6
09:00-10:00 HOUR	48.5	73.3	39.4
10:00-11:00 HOUR	48.7	79.0	40.7
11:00-12:00 HOUR	49.1	68.8	41.8
12:00-13:00 HOUR	50.3	71.1	41.1
13:00-14:00 HOUR	48.8	67.8	39.9
14:00-15:00 HOUR	47.9	70.8	39.7
15:00-16:00 HOUR	47.8	72.3	39.7
16:00-17:00 HOUR	47.5	70.9	41.9
17:00-18:00 HOUR	47.5	77.3	41.2
18:00-19:00 HOUR	46.1	82.7	40.9
19:00-20:00 HOUR	47.1	74.2	42.5
20:00-21:00 HOUR	46.8	79.5	42.4
21:00-22:00 HOUR	44.6	59.8	42.5
22:00-23:00 HOUR	45.1	73.5	42.8
23:00-00:00 HOUR	43.6	55.7	41.6
00:00-01:00 HOUR	42.6	50.2	41.4
01:00-02:00 HOUR	44.0	53.7	41.8
02:00-03:00 HOUR	43.1	56.4	41.0
03:00-04:00 HOUR	42.4	63.5	41.1
04:00-05:00 HOUR	43.0	53.5	41.1
05:00-06:00 HOUR	42.9	59.4	41.2
06:00-07:00 HOUR	48.9	77.7	40.5
L _{Aeq} 24 hours		46.9	
L _{Adn}		51.6	

TIME*	RESULT dB(A)		
	KS1-N1 : บ้านคุณสุวิทย์ หมู่ที่ 4 บ้านคลองสระแก้ว ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม		
	AUGUST 28-29, 2023		
	T23AQ984-0014		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	49.4	68.8	41.5
08:00-09:00 HOUR	48.7	71.3	41.1
09:00-10:00 HOUR	49.0	71.9	40.9
10:00-11:00 HOUR	50.6	71.7	41.2
11:00-12:00 HOUR	50.3	73.1	40.2
12:00-13:00 HOUR	49.2	75.7	40.3
13:00-14:00 HOUR	48.4	70.6	40.3
14:00-15:00 HOUR	51.4	72.1	43.3
15:00-16:00 HOUR	50.7	72.2	42.9
16:00-17:00 HOUR	48.1	72.5	41.3
17:00-18:00 HOUR	47.3	73.4	41.9
18:00-19:00 HOUR	49.4	81.7	42.0
19:00-20:00 HOUR	46.3	66.4	42.8
20:00-21:00 HOUR	44.4	60.3	41.7
21:00-22:00 HOUR	43.5	57.8	41.1
22:00-23:00 HOUR	42.6	59.5	41.1
23:00-00:00 HOUR	41.9	59.7	40.8
00:00-01:00 HOUR	41.7	54.9	40.7
01:00-02:00 HOUR	41.6	70.3	40.5
02:00-03:00 HOUR	41.1	58.2	40.6
03:00-04:00 HOUR	41.0	63.2	39.3
04:00-05:00 HOUR	41.9	59.9	39.9
05:00-06:00 HOUR	42.4	55.0	40.4
06:00-07:00 HOUR	47.6	76.1	41.1
L _{Aeq} 24 hours		47.5	
L _{Adn}		50.9	



TIME*	RESULT dB(A)		
	KS1-N1 : บ้านคุณสุวิมล หมู่ที่ 4 บ้านคลองสระแก้ว ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม		
	AUGUST 29-30, 2023		
	T23AQ984-0015		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	48.1	77.0	39.9
08:00-09:00 HOUR	47.9	70.3	39.7
09:00-10:00 HOUR	48.6	70.1	40.6
10:00-11:00 HOUR	46.6	68.2	41.2
11:00-12:00 HOUR	49.3	72.5	40.1
12:00-13:00 HOUR	47.3	67.9	38.7
13:00-14:00 HOUR	47.4	82.5	38.8
14:00-15:00 HOUR	45.7	68.1	37.0
15:00-16:00 HOUR	45.6	70.7	38.0
16:00-17:00 HOUR	45.3	69.3	39.6
17:00-18:00 HOUR	46.6	78.3	39.9
18:00-19:00 HOUR	45.6	69.6	40.2
19:00-20:00 HOUR	47.1	60.2	42.0
20:00-21:00 HOUR	43.7	61.2	41.8
21:00-22:00 HOUR	45.8	63.3	43.0
22:00-23:00 HOUR	44.4	57.5	43.2
23:00-00:00 HOUR	42.5	53.0	41.3
00:00-01:00 HOUR	42.1	55.2	41.0
01:00-02:00 HOUR	41.9	61.5	40.7
02:00-03:00 HOUR	41.7	62.4	40.4
03:00-04:00 HOUR	41.5	66.0	40.3
04:00-05:00 HOUR	41.8	60.7	40.5
05:00-06:00 HOUR	42.8	66.4	40.8
06:00-07:00 HOUR	48.5	74.9	40.5
L _{Aeq} 24 hours	46.0		
L _{Adn}	50.7		


(MR. SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023

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

ANALYSIS REPORT

PROJECT NAME	: โครงการผลิตปิโตรเลียม แหล่งท่าแพงแสน แปลง PTTEP 1 จังหวัดนครปฐม
CUSTOMER NAME	: PTTEP INTERNATIONAL LIMITED
ADDRESS	: 555/1 ENERGY COMPLEX BUILDING A, 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION	: TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
MEASURING PLACE	: KS1-N1 : บ้านคุณสุวิมล หมู่ที่ 4 บ้านคลองสระแก้ว ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม
MEASURING TYPE	: AMBIENT (ANNOYANCE SOUND LEVEL)
MEASURING DATE	: AUGUST 27-30, 2023
MEASURING TIME	: *
MEASURING EQUIPMENT	: INTEGRATED SOUND LEVEL METER AND CALCULATION
MEASURED BY	: MR SUPAKORN RINWONG
RECEIVED DATE	: AUGUST 27-30, 2023
ANALYTICAL DATE	: AUGUST 27-30, 2023
REPORT NO.	: 2023-U073394
WORK NO.	: 2019-002414
ANALYSIS NO.	: T23AQ984-0013 - T23AQ984-0015

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านคุณสุวิมล หมู่ที่ 4 บ้านคลองสระแก้ว ตำบลทุ่งลูกนก อำเภอท่าแพงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 27, 2023	DAY TIME ^{1/}					
T23AQ984-0013	07:00-08:00 HOUR	48.0 ^{1/}	43.3 ^{**}	46.2 ^{1/}	39.4 ^{**}	6.8
	08:00-09:00 HOUR	47.7 ^{1/}	44.0 ^{**}	45.3 ^{1/}	38.9 ^{**}	6.4
	09:00-10:00 HOUR	48.5 ^{1/}	47.8 ^{**}	40.2 ^{1/}	38.7 ^{**}	1.5
	10:00-11:00 HOUR	48.7 ^{1/}	45.0 ^{**}	46.3 ^{1/}	40.2 ^{**}	6.1
	11:00-12:00 HOUR	49.1 ^{1/}	48.7 ^{**}	38.5 ^{1/}	40.1 ^{**}	<0.8
	12:00-13:00 HOUR	50.3 ^{1/}	50.0 ^{**}	38.5 ^{1/}	39.7 ^{**}	<0.8
	13:00-14:00 HOUR	48.8 ^{1/}	46.7 ^{**}	44.6 ^{1/}	38.4 ^{**}	6.2
	14:00-15:00 HOUR	47.9 ^{1/}	47.7 ^{**}	34.4 ^{1/}	38.7 ^{**}	<0.8
	15:00-16:00 HOUR	47.8 ^{1/}	46.7 ^{**}	41.3 ^{1/}	38.5 ^{**}	2.8
	16:00-17:00 HOUR	47.5 ^{1/}	46.7 ^{**}	39.8 ^{1/}	41.0 ^{**}	<0.8
	17:00-18:00 HOUR	47.5 ^{1/}	44.1 ^{**}	44.8 ^{1/}	40.4 ^{**}	4.4
	18:00-19:00 HOUR	46.1 ^{1/}	44.9 ^{**}	39.9 ^{1/}	39.2 ^{**}	<0.8
	19:00-20:00 HOUR	47.1 ^{1/}	42.7 ^{**}	45.1 ^{1/}	41.1 ^{**}	4.0
	20:00-21:00 HOUR	46.8 ^{1/}	43.0 ^{**}	44.5 ^{1/}	41.3 ^{**}	3.2
	21:00-22:00 HOUR	44.6 ^{1/}	43.6 ^{**}	37.7 ^{1/}	41.5 ^{**}	<0.8
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	46.8 ^{2/}	44.5 ^{***}	45.9 ^{2/}	41.9 ^{***}	4.0
	22:05-22:10 HOUR	45.1 ^{2/}	44.5 ^{***}	39.2 ^{2/}	41.9 ^{***}	<0.8
	22:10-22:15 HOUR	44.3 ^{2/}	44.5 ^{***}	<0.8 ^{2/}	41.9 ^{***}	<0.8
	22:15-22:20 HOUR	47.3 ^{2/}	43.2 ^{***}	48.2 ^{2/}	41.8 ^{***}	6.4
	22:20-22:25 HOUR	45.2 ^{2/}	43.2 ^{***}	43.9 ^{2/}	41.8 ^{***}	2.1
	22:25-22:30 HOUR	45.2 ^{2/}	43.2 ^{***}	43.9 ^{2/}	41.8 ^{***}	2.1
	22:30-22:35 HOUR	44.4 ^{2/}	42.1 ^{***}	43.5 ^{2/}	40.7 ^{***}	2.8
	22:35-22:40 HOUR	44.1 ^{2/}	42.1 ^{***}	42.8 ^{2/}	40.7 ^{***}	2.1
	22:40-22:45 HOUR	44.3 ^{2/}	42.1 ^{***}	43.3 ^{2/}	40.7 ^{***}	2.6
	22:45-22:50 HOUR	44.0 ^{2/}	43.4 ^{***}	38.1 ^{2/}	41.7 ^{***}	<0.8
	22:50-22:55 HOUR	45.0 ^{2/}	43.4 ^{***}	42.9 ^{2/}	41.7 ^{***}	1.2
	22:55-23:00 HOUR	43.9 ^{2/}	43.4 ^{***}	37.3 ^{2/}	41.7 ^{***}	<0.8
	23:00-23:05 HOUR	44.8 ^{2/}	42.5 ^{***}	43.9 ^{2/}	41.3 ^{***}	2.6
	23:05-23:10 HOUR	44.7 ^{2/}	42.5 ^{***}	43.7 ^{2/}	41.3 ^{***}	2.4
	23:10-23:15 HOUR	44.6 ^{2/}	42.5 ^{***}	43.4 ^{2/}	41.3 ^{***}	2.1

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



DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านคุณสุวิมล หมู่ที่ 4 บ้านคลองสะแกกรัง ตำบลทุ่งลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 27, 2023 T23AQ984-0013	NIGHT TIME ^{2/}					
	23:15-23:20 HOUR	43.5 ^{2/}	42.0 ***	41.2 ^{2/}	39.8 ***	1.4
	23:20-23:25 HOUR	43.1 ^{2/}	42.0 ***	39.6 ^{2/}	39.8 ***	<0.8
	23:25-23:30 HOUR	45.2 ^{2/}	42.0 ***	45.4 ^{2/}	39.8 ***	5.6
	23:30-23:35 HOUR	43.1 ^{2/}	41.6 ***	40.8 ^{2/}	40.7 ***	<0.8
	23:35-23:40 HOUR	42.5 ^{2/}	41.6 ***	38.2 ^{2/}	40.7 ***	<0.8
	23:40-23:45 HOUR	42.4 ^{2/}	41.6 ***	37.7 ^{2/}	40.7 ***	<0.8
	23:45-23:50 HOUR	42.3 ^{2/}	41.0 ***	39.4 ^{2/}	40.2 ***	<0.8
	23:50-23:55 HOUR	43.9 ^{2/}	41.0 ***	43.8 ^{2/}	40.2 ***	3.6
	23:55-00:00 HOUR	42.0 ^{2/}	41.0 ***	38.1 ^{2/}	40.2 ***	<0.8
AUGUST 28, 2023 T23AQ984-0013	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	41.8 ^{2/}	40.7 ***	38.3 ^{2/}	39.8 ***	<0.8
	00:05-00:10 HOUR	41.6 ^{2/}	40.7 ***	37.3 ^{2/}	39.8 ***	<0.8
	00:10-00:15 HOUR	42.6 ^{2/}	40.7 ***	41.1 ^{2/}	39.8 ***	1.3
	00:15-00:20 HOUR	43.4 ^{2/}	42.0 ***	40.8 ^{2/}	40.8 ***	<0.8
	00:20-00:25 HOUR	42.9 ^{2/}	42.0 ***	38.6 ^{2/}	40.8 ***	<0.8
	00:25-00:30 HOUR	43.2 ^{2/}	42.0 ***	40.0 ^{2/}	40.8 ***	<0.8
	00:30-00:35 HOUR	42.6 ^{2/}	42.1 ***	36.0 ^{2/}	41.1 ***	<0.8
	00:35-00:40 HOUR	43.0 ^{2/}	42.1 ***	38.7 ^{2/}	41.1 ***	<0.8
	00:40-00:45 HOUR	42.6 ^{2/}	42.1 ***	36.0 ^{2/}	41.1 ***	<0.8
	00:45-00:50 HOUR	42.4 ^{2/}	40.6 ***	40.7 ^{2/}	39.5 ***	1.2
	00:50-00:55 HOUR	42.7 ^{2/}	40.6 ***	41.5 ^{2/}	39.5 ***	2.0
	00:55-01:00 HOUR	42.3 ^{2/}	40.6 ***	40.4 ^{2/}	39.5 ***	0.9
	01:00-01:05 HOUR	43.1 ^{2/}	41.5 ***	41.0 ^{2/}	40.3 ***	<0.8
	01:05-01:10 HOUR	42.6 ^{2/}	41.5 ***	39.1 ^{2/}	40.3 ***	<0.8
	01:10-01:15 HOUR	42.6 ^{2/}	41.5 ***	39.1 ^{2/}	40.3 ***	<0.8
	01:15-01:20 HOUR	41.7 ^{2/}	41.8 ***	<0.8 ^{2/}	40.6 ***	<0.8
	01:20-01:25 HOUR	44.0 ^{2/}	41.8 ***	43.0 ^{2/}	40.6 ***	2.4
	01:25-01:30 HOUR	42.2 ^{2/}	41.8 ***	34.6 ^{2/}	40.6 ***	<0.8
	01:30-01:35 HOUR	43.1 ^{2/}	43.2 ***	<0.8 ^{2/}	41.3 ***	<0.8
	01:35-01:40 HOUR	44.0 ^{2/}	43.2 ***	39.3 ^{2/}	41.3 ***	<0.8
	01:40-01:45 HOUR	44.1 ^{2/}	43.2 ***	39.8 ^{2/}	41.3 ***	<0.8
	01:45-01:50 HOUR	45.4 ^{2/}	42.7 ***	45.1 ^{2/}	39.9 ***	5.2
	01:50-01:55 HOUR	46.3 ^{2/}	42.7 ***	46.8 ^{2/}	39.9 ***	6.9
	01:55-02:00 HOUR	46.1 ^{2/}	42.7 ***	46.4 ^{2/}	39.9 ***	6.5
	02:00-02:05 HOUR	44.3 ^{2/}	42.9 ***	41.7 ^{2/}	40.4 ***	1.3
	02:05-02:10 HOUR	44.4 ^{2/}	42.9 ***	42.1 ^{2/}	40.4 ***	1.7
	02:10-02:15 HOUR	43.9 ^{2/}	42.9 ***	40.0 ^{2/}	40.4 ***	<0.8
	02:15-02:20 HOUR	44.3 ^{2/}	41.8 ***	43.7 ^{2/}	39.9 ***	3.8
	02:20-02:25 HOUR	45.5 ^{2/}	41.8 ***	46.1 ^{2/}	39.9 ***	6.2
	02:25-02:30 HOUR	42.5 ^{2/}	41.8 ***	37.2 ^{2/}	39.9 ***	<0.8
	02:30-02:35 HOUR	41.4 ^{2/}	40.3 ***	37.9 ^{2/}	39.6 ***	<0.8
	02:35-02:40 HOUR	41.7 ^{2/}	40.3 ***	39.1 ^{2/}	39.6 ***	<0.8
	02:40-02:45 HOUR	41.7 ^{2/}	40.3 ***	39.1 ^{2/}	39.6 ***	<0.8
	02:45-02:50 HOUR	41.3 ^{2/}	41.2 ***	27.9 ^{2/}	40.2 ***	<0.8

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านคุณสุวิมล หมู่ที่ 4 บ้านคลองสะแกกรัง ตำบลทุ่งลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 28, 2023 T23AQ984-0013	NIGHT TIME ^{2/}					
	02:50-02:55 HOUR	41.5 ^{2/}	41.2 ***	32.7 ^{2/}	40.2 ***	<0.8
	02:55-03:00 HOUR	41.9 ^{2/}	41.2 ***	36.6 ^{2/}	40.2 ***	<0.8
	03:00-03:05 HOUR	43.6 ^{2/}	41.5 ***	42.4 ^{2/}	39.8 ***	2.6
	03:05-03:10 HOUR	43.1 ^{2/}	41.5 ***	41.0 ^{2/}	39.8 ***	1.2
	03:10-03:15 HOUR	41.4 ^{2/}	41.5 ***	<0.8 ^{2/}	39.8 ***	<0.8
	03:15-03:20 HOUR	43.8 ^{2/}	40.5 ***	44.1 ^{2/}	39.6 ***	4.5
	03:20-03:25 HOUR	42.0 ^{2/}	40.5 ***	39.7 ^{2/}	39.6 ***	<0.8
	03:25-03:30 HOUR	42.4 ^{2/}	40.5 ***	40.9 ^{2/}	39.6 ***	1.3
	03:30-03:35 HOUR	42.2 ^{2/}	40.4 ***	40.5 ^{2/}	39.4 ***	1.1
	03:35-03:40 HOUR	41.2 ^{2/}	40.4 ***	36.5 ^{2/}	39.4 ***	<0.8
	03:40-03:45 HOUR	41.5 ^{2/}	40.4 ***	38.0 ^{2/}	39.4 ***	<0.8
	03:45-03:50 HOUR	41.6 ^{2/}	41.5 ***	28.2 ^{2/}	40.1 ***	<0.8
	03:50-03:55 HOUR	41.7 ^{2/}	41.5 ***	31.2 ^{2/}	40.1 ***	<0.8
	03:55-04:00 HOUR	43.7 ^{2/}	41.5 ***	42.7 ^{2/}	40.1 ***	2.6
	04:00-04:05 HOUR	42.5 ^{2/}	41.8 ***	37.2 ^{2/}	40.1 ***	<0.8
	04:05-04:10 HOUR	42.4 ^{2/}	41.8 ***	36.5 ^{2/}	40.1 ***	<0.8
	04:10-04:15 HOUR	43.1 ^{2/}	41.8 ***	40.2 ^{2/}	40.1 ***	<0.8
	04:15-04:20 HOUR	43.0 ^{2/}	41.3 ***	41.1 ^{2/}	39.3 ***	1.8
	04:20-04:25 HOUR	42.9 ^{2/}	41.3 ***	40.8 ^{2/}	39.3 ***	1.5
	04:25-04:30 HOUR	43.1 ^{2/}	41.3 ***	41.4 ^{2/}	39.3 ***	2.1
	04:30-04:35 HOUR	43.2 ^{2/}	41.8 ***	40.6 ^{2/}	40.0 ***	<0.8
	04:35-04:40 HOUR	42.7 ^{2/}	41.8 ***	38.4 ^{2/}	40.0 ***	<0.8
	04:40-04:45 HOUR	42.6 ^{2/}	41.8 ***	37.9 ^{2/}	40.0 ***	<0.8
	04:45-04:50 HOUR	43.5 ^{2/}	42.1 ***	40.9 ^{2/}	40.3 ***	<0.8
	04:50-04:55 HOUR	43.2 ^{2/}	42.1 ***	39.7 ^{2/}	40.3 ***	<0.8
	04:55-05:00 HOUR	43.4 ^{2/}	42.1 ***	40.5 ^{2/}	40.3 ***	<0.8
	05:00-05:05 HOUR	44.0 ^{2/}	42.4 ***	41.9 ^{2/}	40.7 ***	1.2
	05:05-05:10 HOUR	43.8 ^{2/}	42.4 ***	41.2 ^{2/}	40.7 ***	<0.8
	05:10-05:15 HOUR	43.4 ^{2/}	42.4 ***	39.5 ^{2/}	40.7 ***	<0.8
	05:15-05:20 HOUR	43.7 ^{2/}	40.7 ***	43.7 ^{2/}	39.4 ***	4.3
	05:20-05:25 HOUR	43.7 ^{2/}	40.7 ***	43.7 ^{2/}	39.4 ***	4.3
	05:25-05:30 HOUR	43.1 ^{2/}	40.7 ***	42.4 ^{2/}	39.4 ***	3.0
	05:30-05:35 HOUR	41.2 ^{2/}	40.6 ***	35.3 ^{2/}	39.2 ***	<0.8
	05:35-05:40 HOUR	40.4 ^{2/}	40.6 ***	<0.8 ^{2/}	39.2 ***	<0.8
	05:40-05:45 HOUR	41.4 ^{2/}	40.6 ***	36.7 ^{2/}	39.2 ***	<0.8
	05:45-05:50 HOUR	42.7 ^{2/}	42.1 ***	36.8 ^{2/}	39.5 ***	<0.8
	05:50-05:55 HOUR	42.3 ^{2/}	42.1 ***	31.8 ^{2/}	39.5 ***	<0.8
	05:55-06:00 HOUR	43.2 ^{2/}	42.1 ***	39.7 ^{2/}	39.5 ***	<0.8
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	48.9 ^{1/}	43.7 **	47.3 ^{1/}	40.1 **	7.2
AUGUST 28, 2023 T23AQ984-0014	DAY TIME ^{1/}					
	07:00-08:00 HOUR	49.4 ^{1/}	46.8 **	45.9 ^{1/}	40.7 **	5.2
	08:00-09:00 HOUR	48.7 ^{1/}	47.7 **	41.8 ^{1/}	39.1 **	2.7
	09:00-10:00 HOUR	49.0 ^{1/}	46.3 **	45.7 ^{1/}	40.5 **	5.2

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านคุณสุวิมล หมู่ที่ 4 บ้านคลองสระแก้ว ตำบลทุ่งลูกนก อำเภอท่าแพ จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 28, 2023 T23AQ984-0014	DAY TIME ^{2/}					
	10:00-11:00 HOUR	50.6 ^{1/}	49.0 **	45.5 ^{1/}	40.3 **	5.2
	11:00-12:00 HOUR	50.3 ^{1/}	48.5 **	45.6 ^{1/}	39.4 **	6.2
	12:00-13:00 HOUR	49.2 ^{1/}	45.0 **	47.1 ^{1/}	39.6 **	7.5
	13:00-14:00 HOUR	48.4 ^{1/}	43.8 **	46.6 ^{1/}	39.9 **	6.7
	14:00-15:00 HOUR	51.4 ^{1/}	50.3 **	44.9 ^{1/}	42.2 **	2.7
	15:00-16:00 HOUR	50.7 ^{1/}	46.5 **	48.6 ^{1/}	42.2 **	6.4
	16:00-17:00 HOUR	48.1 ^{1/}	48.4 **	<0.8 ^{1/}	40.6 **	<0.8
	17:00-18:00 HOUR	47.3 ^{1/}	44.5 **	44.1 ^{1/}	40.4 **	3.7
	18:00-19:00 HOUR	49.4 ^{1/}	45.0 **	47.4 ^{1/}	40.9 **	6.5
	19:00-20:00 HOUR	46.3 ^{1/}	44.4 **	41.8 ^{1/}	41.6 **	<0.8
	20:00-21:00 HOUR	44.4 ^{1/}	42.9 **	39.1 ^{1/}	40.3 **	<0.8
	21:00-22:00 HOUR	43.5 ^{1/}	40.8 **	40.2 ^{1/}	39.6 **	<0.8
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	44.4 ^{2/}	41.1 ***	44.7 ^{2/}	39.8 ***	4.9
	22:05-22:10 HOUR	43.1 ^{2/}	41.1 ***	41.8 ^{2/}	39.8 ***	2.0
	22:10-22:15 HOUR	42.2 ^{2/}	41.1 ***	38.7 ^{2/}	39.8 ***	<0.8
	22:15-22:20 HOUR	43.0 ^{2/}	41.5 ***	40.7 ^{2/}	40.2 ***	<0.8
	22:20-22:25 HOUR	43.3 ^{2/}	41.5 ***	41.6 ^{2/}	40.2 ***	1.4
	22:25-22:30 HOUR	42.1 ^{2/}	41.5 ***	36.2 ^{2/}	40.2 ***	<0.8
	22:30-22:35 HOUR	41.5 ^{2/}	40.7 ***	36.8 ^{2/}	39.4 ***	<0.8
	22:35-22:40 HOUR	41.4 ^{2/}	40.7 ***	36.1 ^{2/}	39.4 ***	<0.8
	22:40-22:45 HOUR	42.9 ^{2/}	40.7 ***	41.9 ^{2/}	39.4 ***	2.5
	22:45-22:50 HOUR	42.0 ^{2/}	40.4 ***	39.9 ^{2/}	39.2 ***	<0.8
	22:50-22:55 HOUR	42.2 ^{2/}	40.4 ***	40.5 ^{2/}	39.2 ***	1.3
	22:55-23:00 HOUR	42.1 ^{2/}	40.4 ***	40.2 ^{2/}	39.2 ***	1.0
	23:00-23:05 HOUR	41.9 ^{2/}	40.8 ***	38.4 ^{2/}	39.8 ***	<0.8
	23:05-23:10 HOUR	41.9 ^{2/}	40.8 ***	38.4 ^{2/}	39.8 ***	<0.8
	23:10-23:15 HOUR	42.3 ^{2/}	40.8 ***	40.0 ^{2/}	39.8 ***	<0.8
	23:15-23:20 HOUR	42.0 ^{2/}	41.0 ***	38.1 ^{2/}	40.2 ***	<0.8
	23:20-23:25 HOUR	41.6 ^{2/}	41.0 ***	35.7 ^{2/}	40.2 ***	<0.8
	23:25-23:30 HOUR	41.5 ^{2/}	41.0 ***	34.9 ^{2/}	40.2 ***	<0.8
	23:30-23:35 HOUR	41.2 ^{2/}	39.9 ***	38.3 ^{2/}	39.1 ***	<0.8
	23:35-23:40 HOUR	41.5 ^{2/}	39.9 ***	39.4 ^{2/}	39.1 ***	<0.8
	23:40-23:45 HOUR	42.0 ^{2/}	39.9 ***	40.8 ^{2/}	39.1 ***	1.7
	23:45-23:50 HOUR	42.6 ^{2/}	40.4 ***	41.6 ^{2/}	39.3 ***	2.3
	23:50-23:55 HOUR	42.2 ^{2/}	40.4 ***	40.5 ^{2/}	39.3 ***	1.2
	23:55-00:00 HOUR	41.9 ^{2/}	40.4 ***	39.6 ^{2/}	39.3 ***	<0.8
AUGUST 29, 2023 T23AQ984-0014	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	42.3 ^{2/}	40.4 ***	40.8 ^{2/}	39.4 ***	1.4
	00:05-00:10 HOUR	41.8 ^{2/}	40.4 ***	39.2 ^{2/}	39.4 ***	<0.8
	00:10-00:15 HOUR	41.6 ^{2/}	40.4 ***	38.4 ^{2/}	39.4 ***	<0.8
	00:15-00:20 HOUR	41.5 ^{2/}	40.1 ***	38.9 ^{2/}	39.4 ***	<0.8
	00:20-00:25 HOUR	41.8 ^{2/}	40.1 ***	39.9 ^{2/}	39.4 ***	<0.8
	00:25-00:30 HOUR	41.5 ^{2/}	40.1 ***	38.9 ^{2/}	39.4 ***	<0.8

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านคุณสุวิมล หมู่ที่ 4 บ้านคลองสระแก้ว ตำบลทุ่งลูกนก อำเภอท่าแพ จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 29, 2023 T23AQ984-0014	NIGHT TIME ^{2/}					
	00:30-00:35 HOUR	40.9 ^{2/}	40.1 ***	36.2 ^{2/}	38.9 ***	<0.8
	00:35-00:40 HOUR	41.6 ^{2/}	40.1 ***	39.3 ^{2/}	38.9 ***	<0.8
	00:40-00:45 HOUR	41.5 ^{2/}	40.1 ***	38.9 ^{2/}	38.9 ***	<0.8
	00:45-00:50 HOUR	41.7 ^{2/}	40.1 ***	39.6 ^{2/}	39.0 ***	<0.8
	00:50-00:55 HOUR	42.1 ^{2/}	40.1 ***	40.8 ^{2/}	39.0 ***	1.8
	00:55-01:00 HOUR	41.9 ^{2/}	40.1 ***	40.2 ^{2/}	39.0 ***	1.2
	01:00-01:05 HOUR	41.4 ^{2/}	41.5 ***	<0.8 ^{2/}	40.1 ***	<0.8
	01:05-01:10 HOUR	41.6 ^{2/}	41.5 ***	28.2 ^{2/}	40.1 ***	<0.8
	01:10-01:15 HOUR	43.0 ^{2/}	41.5 ***	40.7 ^{2/}	40.1 ***	<0.8
	01:15-01:20 HOUR	40.9 ^{2/}	40.3 ***	35.0 ^{2/}	39.4 ***	<0.8
	01:20-01:25 HOUR	42.0 ^{2/}	40.3 ***	40.1 ^{2/}	39.4 ***	<0.8
	01:25-01:30 HOUR	41.6 ^{2/}	40.3 ***	38.7 ^{2/}	39.4 ***	<0.8
	01:30-01:35 HOUR	41.1 ^{2/}	43.2 ***	<0.8 ^{2/}	40.2 ***	<0.8
	01:35-01:40 HOUR	42.1 ^{2/}	43.2 ***	<0.8 ^{2/}	40.2 ***	<0.8
	01:40-01:45 HOUR	41.7 ^{2/}	43.2 ***	<0.8 ^{2/}	40.2 ***	<0.8
	01:45-01:50 HOUR	41.5 ^{2/}	40.0 ***	39.2 ^{2/}	39.3 ***	<0.8
	01:50-01:55 HOUR	41.1 ^{2/}	40.0 ***	37.6 ^{2/}	39.3 ***	<0.8
	01:55-02:00 HOUR	41.1 ^{2/}	40.0 ***	37.6 ^{2/}	39.3 ***	<0.8
	02:00-02:05 HOUR	41.6 ^{2/}	40.2 ***	39.0 ^{2/}	38.9 ***	<0.8
	02:05-02:10 HOUR	41.9 ^{2/}	40.2 ***	40.0 ^{2/}	38.9 ***	1.1
	02:10-02:15 HOUR	41.3 ^{2/}	40.2 ***	37.8 ^{2/}	38.9 ***	<0.8
	02:15-02:20 HOUR	42.3 ^{2/}	40.8 ***	40.0 ^{2/}	39.8 ***	<0.8
	02:20-02:25 HOUR	41.1 ^{2/}	40.8 ***	32.3 ^{2/}	39.8 ***	<0.8
	02:25-02:30 HOUR	41.4 ^{2/}	40.8 ***	35.5 ^{2/}	39.8 ***	<0.8
	02:30-02:35 HOUR	41.7 ^{2/}	40.5 ***	38.5 ^{2/}	39.7 ***	<0.8
	02:35-02:40 HOUR	41.4 ^{2/}	40.5 ***	37.1 ^{2/}	39.7 ***	<0.8
	02:40-02:45 HOUR	41.1 ^{2/}	40.5 ***	35.2 ^{2/}	39.7 ***	<0.8
	02:45-02:50 HOUR	40.3 ^{2/}	39.1 ***	37.1 ^{2/}	38.2 ***	<0.8
	02:50-02:55 HOUR	39.2 ^{2/}	39.1 ***	25.8 ^{2/}	38.2 ***	<0.8
	02:55-03:00 HOUR	39.2 ^{2/}	39.1 ***	25.8 ^{2/}	38.2 ***	<0.8
	03:00-03:05 HOUR	40.7 ^{2/}	40.0 ***	35.4 ^{2/}	39.2 ***	<0.8
	03:05-03:10 HOUR	41.0 ^{2/}	40.0 ***	37.1 ^{2/}	39.2 ***	<0.8
	03:10-03:15 HOUR	40.7 ^{2/}	40.0 ***	35.4 ^{2/}	39.2 ***	<0.8
	03:15-03:20 HOUR	40.7 ^{2/}	38.8 ***	39.2 ^{2/}	37.7 ***	1.5
	03:20-03:25 HOUR	40.5 ^{2/}	38.8 ***	38.6 ^{2/}	37.7 ***	0.9
	03:25-03:30 HOUR	40.8 ^{2/}	38.8 ***	39.5 ^{2/}	37.7 ***	1.8
	03:30-03:35 HOUR	39.4 ^{2/}	39.8 ***	<0.8 ^{2/}	38.5 ***	<0.8
	03:35-03:40 HOUR	39.7 ^{2/}	39.8 ***	<0.8 ^{2/}	38.5 ***	<0.8
	03:40-03:45 HOUR	41.9 ^{2/}	39.8 ***	40.7 ^{2/}	38.5 ***	2.2
	03:45-03:50 HOUR	43.4 ^{2/}	40.4 ***	43.4 ^{2/}	38.7 ***	4.7
	03:50-03:55 HOUR	40.4 ^{2/}	40.4 ***	<0.8 ^{2/}	38.7 ***	<0.8
	03:55-04:00 HOUR	41.0 ^{2/}	40.4 ***	35.1 ^{2/}	38.7 ***	<0.8
	04:00-04:05 HOUR	40.1 ^{2/}	40.2 ***	<0.8 ^{2/}	38.5 ***	<0.8
	04:05-04:10 HOUR	42.3 ^{2/}	40.2 ***	41.1 ^{2/}	38.5 ***	2.6

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : ป้านตุลเสวรณ์ หมู่ที่ 4 บ้านคอกสะแกกรัง ตำบลทุ่งลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 29, 2023 T23AQ984-0014	NIGHT TIME ^{2/}					
	04:10-04:15 HOUR	40.1 ^{2/}	40.2 ***	<0.8 ^{2/}	38.5 ***	<0.8
	04:15-04:20 HOUR	41.8 ^{2/}	40.5 ***	38.9 ^{2/}	38.9 ***	<0.8
	04:20-04:25 HOUR	42.0 ^{2/}	40.5 ***	39.7 ^{2/}	38.9 ***	0.8
	04:25-04:30 HOUR	41.5 ^{2/}	40.5 ***	37.6 ^{2/}	38.9 ***	<0.8
	04:30-04:35 HOUR	41.1 ^{2/}	40.9 ***	30.6 ^{2/}	39.4 ***	<0.8
	04:35-04:40 HOUR	41.3 ^{2/}	40.9 ***	33.7 ^{2/}	39.4 ***	<0.8
	04:40-04:45 HOUR	41.4 ^{2/}	40.9 ***	34.8 ^{2/}	39.4 ***	<0.8
	04:45-04:50 HOUR	42.5 ^{2/}	42.2 ***	33.7 ^{2/}	40.2 ***	<0.8
	04:50-04:55 HOUR	44.8 ^{2/}	42.2 ***	44.3 ^{2/}	40.2 ***	4.1
	04:55-05:00 HOUR	41.5 ^{2/}	42.2 ***	<0.8 ^{2/}	40.2 ***	<0.8
	05:00-05:05 HOUR	42.9 ^{2/}	41.5 ***	40.3 ^{2/}	39.9 ***	<0.8
	05:05-05:10 HOUR	42.3 ^{2/}	41.5 ***	37.6 ^{2/}	39.9 ***	<0.8
	05:10-05:15 HOUR	41.9 ^{2/}	41.5 ***	34.3 ^{2/}	39.9 ***	<0.8
	05:15-05:20 HOUR	42.1 ^{2/}	40.4 ***	40.2 ^{2/}	38.9 ***	1.3
	05:20-05:25 HOUR	41.9 ^{2/}	40.4 ***	39.6 ^{2/}	38.9 ***	<0.8
	05:25-05:30 HOUR	40.9 ^{2/}	40.4 ***	34.3 ^{2/}	38.9 ***	<0.8
	05:30-05:35 HOUR	41.6 ^{2/}	40.2 ***	39.0 ^{2/}	38.7 ***	<0.8
	05:35-05:40 HOUR	42.3 ^{2/}	40.2 ***	41.1 ^{2/}	38.7 ***	2.4
	05:40-05:45 HOUR	41.6 ^{2/}	40.2 ***	39.0 ^{2/}	38.7 ***	<0.8
	05:45-05:50 HOUR	42.8 ^{2/}	44.4 ***	<0.8 ^{2/}	40.0 ***	<0.8
	05:50-05:55 HOUR	44.9 ^{2/}	44.4 ***	38.3 ^{2/}	40.0 ***	<0.8
	05:55-06:00 HOUR	41.7 ^{2/}	44.4 ***	<0.8 ^{2/}	40.0 ***	<0.8
	DAY TIME ^{1/}					
	06:00-07:00 HOUR	47.6 ^{1/}	43.0 **	45.8 ^{1/}	39.3 **	6.5
AUGUST 29, 2023 T23AQ984-0015	DAY TIME ^{1/}					
	07:00-08:00 HOUR	48.1 ^{1/}	43.8 **	46.1 ^{1/}	39.4 **	6.7
	08:00-09:00 HOUR	47.9 ^{1/}	45.2 **	44.6 ^{1/}	38.3 **	6.3
	09:00-10:00 HOUR	48.6 ^{1/}	45.3 **	45.9 ^{1/}	39.6 **	6.3
	10:00-11:00 HOUR	46.6 ^{1/}	44.1 **	43.0 ^{1/}	40.1 **	2.9
	11:00-12:00 HOUR	49.3 ^{1/}	45.2 **	47.2 ^{1/}	40.0 **	7.2
	12:00-13:00 HOUR	47.3 ^{1/}	42.0 **	45.8 ^{1/}	38.1 **	7.7
	13:00-14:00 HOUR	47.4 ^{1/}	41.3 **	46.2 ^{1/}	38.7 **	7.5
	14:00-15:00 HOUR	45.7 ^{1/}	40.4 **	44.2 ^{1/}	36.6 **	7.6
	15:00-16:00 HOUR	45.6 ^{1/}	43.2 **	41.9 ^{1/}	37.6 **	4.3
	16:00-17:00 HOUR	45.3 ^{1/}	45.8 **	<0.8 ^{1/}	38.5 **	<0.8
	17:00-18:00 HOUR	46.6 ^{1/}	41.8 **	44.9 ^{1/}	39.0 **	5.9
	18:00-19:00 HOUR	45.6 ^{1/}	42.8 **	42.4 ^{1/}	39.4 **	3.0
	19:00-20:00 HOUR	47.1 ^{1/}	43.4 **	44.7 ^{1/}	41.0 **	3.7
	20:00-21:00 HOUR	43.7 ^{1/}	41.8 **	39.2 ^{1/}	40.8 **	<0.8
	21:00-22:00 HOUR	45.8 ^{1/}	45.9 **	<0.8 ^{1/}	41.5 **	<0.8
	NIGHT TIME ^{2/}					
	22:00-22:05 HOUR	43.2 ^{2/}	44.3 ***	<0.8 ^{2/}	42.3 ***	<0.8
	22:05-22:10 HOUR	45.6 ^{2/}	44.3 ***	42.7 ^{2/}	42.3 ***	<0.8
	22:10-22:15 HOUR	45.3 ^{2/}	44.3 ***	41.4 ^{2/}	42.3 ***	<0.8

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : ป้านตุลเสวรณ์ หมู่ที่ 4 บ้านคอกสะแกกรัง ตำบลทุ่งลูกนก อำเภอคำแพงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 29, 2023 T23AQ984-0015	NIGHT TIME ^{2/}					
	22:15-22:20 HOUR	44.9 ^{2/}	42.0 ***	44.8 ^{2/}	40.4 ***	4.4
	22:20-22:25 HOUR	45.3 ^{2/}	42.0 ***	45.6 ^{2/}	40.4 ***	5.2
	22:25-22:30 HOUR	43.0 ^{2/}	42.0 ***	39.1 ^{2/}	40.4 ***	<0.8
	22:30-22:35 HOUR	42.8 ^{2/}	42.7 ***	29.4 ^{2/}	41.5 ***	<0.8
	22:35-22:40 HOUR	45.6 ^{2/}	42.7 ***	45.5 ^{2/}	41.5 ***	4.0
	22:40-22:45 HOUR	45.1 ^{2/}	42.7 ***	44.4 ^{2/}	41.5 ***	2.9
	22:45-22:50 HOUR	43.6 ^{2/}	40.8 ***	43.4 ^{2/}	39.5 ***	3.9
	22:50-22:55 HOUR	44.6 ^{2/}	40.8 ***	45.3 ^{2/}	39.5 ***	5.8
	22:55-23:00 HOUR	41.6 ^{2/}	40.8 ***	36.9 ^{2/}	39.5 ***	<0.8
	23:00-23:05 HOUR	41.5 ^{2/}	41.3 ***	31.0 ^{2/}	40.1 ***	<0.8
	23:05-23:10 HOUR	41.9 ^{2/}	41.3 ***	36.0 ^{2/}	40.1 ***	<0.8
	23:10-23:15 HOUR	43.1 ^{2/}	41.3 ***	41.4 ^{2/}	40.1 ***	1.3
	23:15-23:20 HOUR	43.0 ^{2/}	42.0 ***	39.1 ^{2/}	40.8 ***	<0.8
	23:20-23:25 HOUR	43.4 ^{2/}	42.0 ***	40.8 ^{2/}	40.8 ***	<0.8
	23:25-23:30 HOUR	44.4 ^{2/}	42.0 ***	43.7 ^{2/}	40.8 ***	2.9
	23:30-23:35 HOUR	41.2 ^{2/}	39.6 ***	39.1 ^{2/}	38.5 ***	<0.8
	23:35-23:40 HOUR	41.8 ^{2/}	39.6 ***	40.8 ^{2/}	38.5 ***	2.3
	23:40-23:45 HOUR	41.6 ^{2/}	39.6 ***	40.3 ^{2/}	38.5 ***	1.8
	23:45-23:50 HOUR	40.5 ^{2/}	40.8 ***	<0.8 ^{2/}	39.8 ***	<0.8
	23:50-23:55 HOUR	42.8 ^{2/}	40.8 ***	41.5 ^{2/}	39.8 ***	1.7
	23:55-00:00 HOUR	43.1 ^{2/}	40.8 ***	42.2 ^{2/}	39.8 ***	2.4
AUGUST 30, 2023 T23AQ984-0015	NIGHT TIME ^{2/}					
	00:00-00:05 HOUR	43.5 ^{2/}	40.5 ***	43.5 ^{2/}	39.6 ***	3.9
	00:05-00:10 HOUR	42.3 ^{2/}	40.5 ***	40.6 ^{2/}	39.6 ***	1.0
	00:10-00:15 HOUR	42.1 ^{2/}	40.5 ***	40.0 ^{2/}	39.6 ***	<0.8
	00:15-00:20 HOUR	42.3 ^{2/}	40.1 ***	41.3 ^{2/}	39.3 ***	2.0
	00:20-00:25 HOUR	41.6 ^{2/}	40.1 ***	39.3 ^{2/}	39.3 ***	<0.8
	00:25-00:30 HOUR	41.4 ^{2/}	40.1 ***	38.5 ^{2/}	39.3 ***	<0.8
	00:30-00:35 HOUR	41.6 ^{2/}	40.1 ***	39.3 ^{2/}	38.8 ***	<0.8
	00:35-00:40 HOUR	42.3 ^{2/}	40.1 ***	41.3 ^{2/}	38.8 ***	2.5
	00:40-00:45 HOUR	42.9 ^{2/}	40.1 ***	42.7 ^{2/}	38.8 ***	3.9
	00:45-00:50 HOUR	41.9 ^{2/}	40.2 ***	40.0 ^{2/}	39.4 ***	<0.8
	00:50-00:55 HOUR	41.8 ^{2/}	40.2 ***	39.7 ^{2/}	39.4 ***	<0.8
	00:55-01:00 HOUR	41.5 ^{2/}	40.2 ***	38.6 ^{2/}	39.4 ***	<0.8
	01:00-01:05 HOUR	41.5 ^{2/}	40.6 ***	37.2 ^{2/}	39.5 ***	<0.8
	01:05-01:10 HOUR	41.3 ^{2/}	40.6 ***	36.0 ^{2/}	39.5 ***	<0.8
	01:10-01:15 HOUR	42.1 ^{2/}	40.6 ***	39.8 ^{2/}	39.5 ***	<0.8
	01:15-01:20 HOUR	41.9 ^{2/}	40.5 ***	39.3 ^{2/}	39.5 ***	<0.8
	01:20-01:25 HOUR	41.5 ^{2/}	40.5 ***	37.6 ^{2/}	39.5 ***	<0.8
	01:25-01:30 HOUR	41.8 ^{2/}	40.5 ***	38.9 ^{2/}	39.5 ***	<0.8
	01:30-01:35 HOUR	41.7 ^{2/}	41.3 ***	34.1 ^{2/}	39.7 ***	<0.8
	01:35-01:40 HOUR	43.0 ^{2/}	41.3 ***	41.1 ^{2/}	39.7 ***	1.4
	01:40-01:45 HOUR	41.8 ^{2/}	41.3 ***	35.2 ^{2/}	39.7 ***	<0.8
	01:45-01:50 HOUR	42.2 ^{2/}	40.4 ***	40.5 ^{2/}	39.7 ***	0.8

DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านคุณสุวิมล หมู่ที่ 4 บ้านคลองสระแก้ว ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 30, 2023 T23AQ984-0015	NIGHT TIME ^{2/} 01:50-01:55 HOUR	42.7 ^{2/}	40.4 ***	41.8 ^{2/}	39.7 ***	2.1
	01:55-02:00 HOUR	41.5 ^{2/}	40.4 ***	38.0 ^{2/}	39.7 ***	<0.8
	02:00-02:05 HOUR	40.7 ^{2/}	41.3 ***	<0.8 ^{2/}	38.4 ***	<0.8
	02:05-02:10 HOUR	41.5 ^{2/}	41.3 ***	31.0 ^{2/}	38.4 ***	<0.8
	02:10-02:15 HOUR	39.8 ^{2/}	41.3 ***	<0.8 ^{2/}	38.4 ***	<0.8
	02:15-02:20 HOUR	44.8 ^{2/}	42.3 ***	44.2 ^{2/}	39.4 ***	4.8
	02:20-02:25 HOUR	40.6 ^{2/}	42.3 ***	<0.8 ^{2/}	39.4 ***	<0.8
	02:25-02:30 HOUR	41.4 ^{2/}	42.3 ***	<0.8 ^{2/}	39.4 ***	<0.8
	02:30-02:35 HOUR	41.9 ^{2/}	40.4 ***	39.6 ^{2/}	39.3 ***	<0.8
	02:35-02:40 HOUR	43.0 ^{2/}	40.4 ***	42.5 ^{2/}	39.3 ***	3.2
	02:40-02:45 HOUR	41.1 ^{2/}	40.4 ***	35.8 ^{2/}	39.3 ***	<0.8
	02:45-02:50 HOUR	40.7 ^{2/}	39.9 ***	36.0 ^{2/}	38.4 ***	<0.8
	02:50-02:55 HOUR	42.2 ^{2/}	39.9 ***	41.3 ^{2/}	38.4 ***	2.9
	02:55-03:00 HOUR	40.6 ^{2/}	39.9 ***	35.3 ^{2/}	38.4 ***	<0.8
	03:00-03:05 HOUR	38.6 ^{2/}	39.3 ***	<0.8 ^{2/}	38.1 ***	<0.8
	03:05-03:10 HOUR	39.8 ^{2/}	39.3 ***	33.2 ^{2/}	38.1 ***	<0.8
	03:10-03:15 HOUR	40.8 ^{2/}	39.3 ***	38.5 ^{2/}	38.1 ***	<0.8
	03:15-03:20 HOUR	42.3 ^{2/}	40.8 ***	40.0 ^{2/}	39.4 ***	<0.8
	03:20-03:25 HOUR	40.9 ^{2/}	40.8 ***	27.5 ^{2/}	39.4 ***	<0.8
	03:25-03:30 HOUR	43.8 ^{2/}	40.8 ***	43.8 ^{2/}	39.4 ***	4.4
	03:30-03:35 HOUR	41.6 ^{2/}	41.2 ***	34.0 ^{2/}	39.3 ***	<0.8
	03:35-03:40 HOUR	41.4 ^{2/}	41.2 ***	30.9 ^{2/}	39.3 ***	<0.8
	03:40-03:45 HOUR	41.4 ^{2/}	41.2 ***	30.9 ^{2/}	39.3 ***	<0.8
	03:45-03:50 HOUR	41.1 ^{2/}	41.1 ***	<0.8 ^{2/}	39.5 ***	<0.8
	03:50-03:55 HOUR	42.2 ^{2/}	41.1 ***	38.7 ^{2/}	39.5 ***	<0.8
	03:55-04:00 HOUR	42.3 ^{2/}	41.1 ***	39.1 ^{2/}	39.5 ***	<0.8
	04:00-04:05 HOUR	41.3 ^{2/}	40.2 ***	37.8 ^{2/}	39.0 ***	<0.8
	04:05-04:10 HOUR	42.7 ^{2/}	40.2 ***	42.1 ^{2/}	39.0 ***	3.1
	04:10-04:15 HOUR	42.9 ^{2/}	40.2 ***	42.6 ^{2/}	39.0 ***	3.6
	04:15-04:20 HOUR	41.7 ^{2/}	40.4 ***	38.8 ^{2/}	39.0 ***	<0.8
	04:20-04:25 HOUR	42.6 ^{2/}	40.4 ***	41.6 ^{2/}	39.0 ***	2.6
	04:25-04:30 HOUR	41.4 ^{2/}	40.4 ***	37.5 ^{2/}	39.0 ***	<0.8
	04:30-04:35 HOUR	41.0 ^{2/}	40.9 ***	27.6 ^{2/}	39.8 ***	<0.8
	04:35-04:40 HOUR	41.4 ^{2/}	40.9 ***	34.8 ^{2/}	39.8 ***	<0.8
	04:40-04:45 HOUR	42.3 ^{2/}	40.9 ***	39.7 ^{2/}	39.8 ***	<0.8
	04:45-04:50 HOUR	41.6 ^{2/}	39.2 ***	40.9 ^{2/}	38.0 ***	2.9
	04:50-04:55 HOUR	41.6 ^{2/}	39.2 ***	40.9 ^{2/}	38.0 ***	2.9
	04:55-05:00 HOUR	40.3 ^{2/}	39.2 ***	36.8 ^{2/}	38.0 ***	<0.8
	05:00-05:05 HOUR	40.6 ^{2/}	40.2 ***	33.0 ^{2/}	39.1 ***	<0.8
	05:05-05:10 HOUR	41.6 ^{2/}	40.2 ***	39.0 ^{2/}	39.1 ***	<0.8
	05:10-05:15 HOUR	42.4 ^{2/}	40.2 ***	41.4 ^{2/}	39.1 ***	2.3
	05:15-05:20 HOUR	42.8 ^{2/}	40.9 ***	41.3 ^{2/}	39.6 ***	1.7
	05:20-05:25 HOUR	43.1 ^{2/}	40.9 ***	42.1 ^{2/}	39.6 ***	2.5
	05:25-05:30 HOUR	41.0 ^{2/}	40.9 ***	27.6 ^{2/}	39.6 ***	<0.8

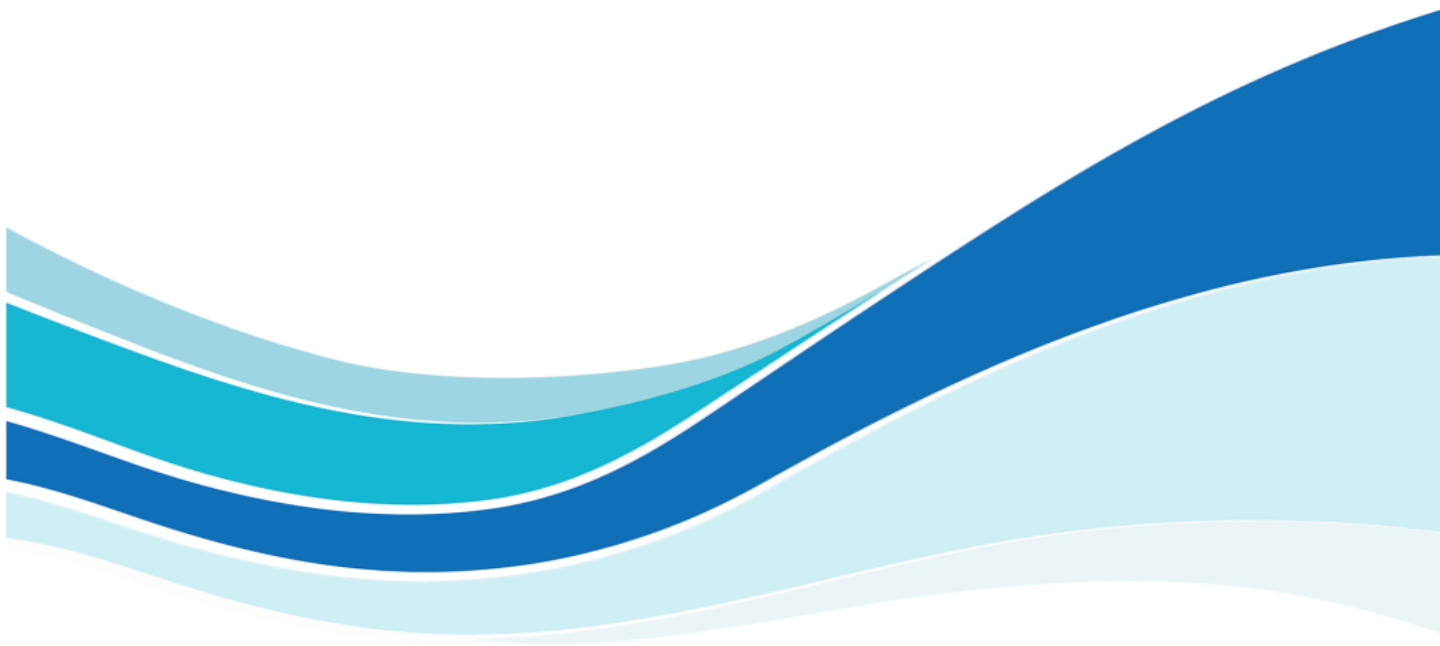
DATE	TIME*	RESULT (dB(A))				
		KS1-N1 : บ้านคุณสุวิมล หมู่ที่ 4 บ้านคลองสระแก้ว ตำบลทุ่งลูกนก อำเภอกำแพงแสน จังหวัดนครปฐม				
		SPECIFIC SOUND LEVEL	RESIDUAL SOUND LEVEL	RATING LEVEL	BACKGROUND SOUND LEVEL	ANNOYANCE SOUND LEVEL
AUGUST 30, 2023 T23AQ984-0015	NIGHT TIME ^{2/} 05:30-05:35 HOUR	41.1 ^{2/}	40.0 ***	37.6 ^{2/}	38.1 ***	<0.8
	05:35-05:40 HOUR	40.7 ^{2/}	40.0 ***	35.4 ^{2/}	38.1 ***	<0.8
	05:40-05:45 HOUR	43.2 ^{2/}	40.0 ***	43.4 ^{2/}	38.1 ***	5.3
	05:45-05:50 HOUR	42.3 ^{2/}	43.4 ***	<0.8 ^{2/}	41.2 ***	<0.8
	05:50-05:55 HOUR	44.5 ^{2/}	43.4 ***	41.0 ^{2/}	41.2 ***	<0.8
	05:55-06:00 HOUR	46.2 ^{2/}	43.4 ***	46.0 ^{2/}	41.2 ***	4.8
	DAY TIME ^{1/} 06:00-07:00 HOUR	48.5 ^{1/}	49.0 **	<0.8 ^{1/}	39.4 **	<0.8

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


(MR. SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

SEPTEMBER 5, 2023

ภาคผนวกที่ 39-3
คุณภาพน้ำผิวดิน



ANALYSIS REPORT

PROJECT NAME : โครงการเจาะสำรวจและผลิตปิโตรเลียมแปลง L53/43 และ L54/43 จังหวัดสุพรรณบุรี

CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED

ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900

CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com

SAMPLING SOURCE : KS-SW1 : คลองชลประทานบริเวณด้านเหนือพื้นที่โครงการฯ

SAMPLE TYPE : SURFACE WATER

SAMPLING DATE : MARCH 24, 2023

SAMPLING TIME : 10:25 HOUR

SAMPLING METHOD ° : GRAB, GRAB AND STERILE TECHNIQUE

SAMPLING BY ° : MR. KRIDSANAPONG NAMTHIP

ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : MARCH 24, 2023

ANALYTICAL DATE : MARCH 24-APRIL 5, 2023

REPORT NO. : 2023-U025678

WORK NO. : 2019-002414

ANALYSIS NO. : T23AF301-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS-SW1 T23AF301-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	8.2 (29°C)	-
ELECTRICAL CONDUCTIVITY °	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	223 (29°C)	0.1
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: PART 2550 B)	29	-
DISSOLVED OXYGEN °	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G)	4.6	0.5
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B)	0.1	0.1
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	1.6	1.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	9.2	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	147	25
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	0.0046	0.0003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE TP SW 01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE TP SW 01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.363	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE TP SW 01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.003
MANGANESE °	mg/L Mn	IN-HOUSE METHOD: UAE TP SW 01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.064	0.002
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE TP SW 01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS-SW1 T23AF301-0001	
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	0.0005
TOTAL CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE TP SW 01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005
TOTAL MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE TP HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	0.0001
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE TP SW 01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	0.040	0.003
MICROBIOLOGY				
FAECAL COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	49	1.8
SAMPLE CONDITION			YELLOW/CLEAR BROWN	
WATER'S COLOUR/TURBID SEDIMENT				

° : 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, 23RD EDITION, 2017.

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

ND : NON-DETECTABLE.

Bhuchonk p.

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

APRIL 10, 2023

ANALYSIS REPORT

PROJECT NAME : โครงการเจาะสำรวจและผลิตปิโตรเลียมแปลง L53/43 และ L54/43 จังหวัดสุพรรณบุรี

CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED

ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900

CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com

SAMPLING SOURCE : KS-SW2 : คลองชลประทานบริเวณด้านท้ายพื้นที่โครงการ

SAMPLE TYPE : SURFACE WATER

SAMPLING DATE : MARCH 24, 2023

SAMPLING TIME : 09:55 HOUR

SAMPLING METHOD : GRAB, GRAB AND STERILE TECHNIQUE

SAMPLING BY : MR KRIDSANAPONG NAMTHIP

ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : MARCH 24, 2023

ANALYTICAL DATE : MARCH 24-APRIL 5, 2023

REPORT NO. : 2023-U025679

WORK NO. : 2019-002414

ANALYSIS NO. : T23AF301-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS-SW2 T23AF301-0002	
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	8.2 (29°C)	-
ELECTRICAL CONDUCTIVITY ^c	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	216 (29°C)	0.1
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM: PART 2550 B)	29	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O ₂ G)	4.9	0.5
SALINITY ^c	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B)	0.1	0.1
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O ₂ C)	1.4	1.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	11.7	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	124	25
TOTAL PETROLEUM HYDROCARBONS ^c	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	3
METALS				
ARSENIC ^c	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	0.0048	0.0003
CADMIUM ^c	mg/L Cd	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.002
COPPER ^c	mg/L Cu	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.002
IRON ^c	mg/L Fe	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.352	0.005
LEAD ^c	mg/L Pb	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.003
MANGANESE ^c	mg/L Mn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.062	0.002
NICKEL ^c	mg/L Ni	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005

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• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS-SW2 T23AF301-0002	
SELENIUM ^c	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	0.0005
TOTAL CHROMIUM ^c	mg/L Cr	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005
TOTAL MERCURY ^c	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	0.0001
ZINC ^c	mg/L Zn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.003
BARIUM ^c	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	0.039	0.003
MICROBIOLOGY				
FAECAL COLIFORM BACTERIA ^b	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	220	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			YELLOW/CLEAR	
SEDIMENT			BROWN	

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

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

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

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

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

ND : NON-DETECTABLE.



(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

APRIL 10, 2023

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

• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.

ANALYSIS REPORT

PROJECT NAME : โครงการเจาะสำรวจและผลิตปิโตรเลียมแปลง L53/43 และ L54/43 จังหวัดสุพรรณบุรี
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : -
SAMPLE TYPE : BLANK (SURFACE WATER)
SAMPLING DATE : -
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : -
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : MARCH 24, 2023
ANALYTICAL DATE : MARCH 24-APRIL 5, 2023
REPORT NO. : 2023-U025680
WORK NO. : 2019-002414
ANALYSIS NO. : 2023-FB0283, 2023-TB0271

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			1 2023-FB0283	2 2023-TB0271	
BIOCHEMICAL OXYGEN DEMAND	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	ND	ND	1.0
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	ND	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	ND	ND	25
TOTAL PETROLEUM HYDROCARBONS	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	ND	3
METALS					
ARSENIC	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	ND	0.0003
CADMIUM	mg/L Cd	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	ND	0.002
COPPER	mg/L Cu	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	ND	0.002
IRON	mg/L Fe	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	ND	0.005
LEAD	mg/L Pb	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	ND	0.003
MANGANESE	mg/L Mn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	ND	0.002
NICKEL	mg/L Ni	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	ND	0.005
SELENIUM	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	ND	0.0005
TOTAL CHROMIUM	mg/L Cr	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	ND	0.005
TOTAL MERCURY	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	ND	0.0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			1 2023-FB0283	2 2023-TB0271	
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	ND	0.003
BARIUM	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	ND	ND	0.003
MICROBIOLOGY					
FAECAL COLIFORM BACTERIA	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	< 1.8	< 1.8	1.8
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	COLOURLESS/CLEAR	
SEDIMENT			-	-	

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23RD EDITION, 2017.
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23RD EDITION, 2017.
RESULT 1 : FIELD BLANK
RESULT 2 : TRIP BLANK
ND : NON-DETECTABLE.

Bhuchonk p.

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

APRIL 10, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการเจาะสำรวจและผลิตปิโตรเลียมแปลง L53/43 และ L54/43 จังหวัดสุพรรณบุรี
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS-SW1 : คลองชลประทานบริเวณด้านเหนือพื้นที่โครงการฯ
SAMPLE TYPE : SURFACE WATER
SAMPLING DATE : AUGUST 31, 2023
SAMPLING TIME : 09:55 HOUR
SAMPLING METHOD ° : GRAB, GRAB AND STERILE TECHNIQUE
SAMPLING BY ° : MR KRIDSANAPONG NAMTHIP
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : AUGUST 31, 2023
ANALYTICAL DATE : AUGUST 31 - SEPTEMBER 12, 2023
REPORT NO. : 2023-U076667
WORK NO. : 2019-002414
ANALYSIS NO. : T23AR004-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS-SW1 T23AR004-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.9 (29°C)	-
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	187 (29°C)	0.1
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: PART 2550 B)	29	-
DISSOLVED OXYGEN °	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G)	4.7	0.5
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B)	0.1	0.1
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	ND	1.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	8.5	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	114	25
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	0.0033	0.0003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.277	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.003
MANGANESE °	mg/L Mn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.046	0.002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS-SW1 T23AR004-0001	
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	0.0005
TOTAL CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005
TOTAL MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	< LOQ	0.0001
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	0.028	0.003
MICROBIOLOGY				
FAECAL COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	14	18
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR 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, 23rd EDITION, 2017.

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

ND : NON-DETECTABLE

< LOQ : < LIMIT OF QUANTITATION (TOTAL MERCURY ≥ 0.0001 AND < 0.0005 mg/L)

Bhuchonk P.

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023



ANALYSIS REPORT

PROJECT NAME	: โครงการเจาะสำรวจและผลิตปิโตรเลียมแปลง L53/43 และ L54/43 จังหวัดสุพรรณบุรี	RECEIVED DATE	: AUGUST 31, 2023
CUSTOMER NAME	: PTTEP INTERNATIONAL LIMITED	ANALYTICAL DATE	: AUGUST 31 - SEPTEMBER 12, 2023
ADDRESS	: 555/1 ENERGY COMPLEX BUILDING A, 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900	REPORT NO.	: 2023-U076668
CONTACT INFORMATION	: TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com	WORK NO.	: 2019-002414
SAMPLING SOURCE	: KS-SW2 : คลองชลประทานบริเวณด้านท้ายพื้นที่โครงการฯ	ANALYSIS NO.	: T23AR004-0002
SAMPLE TYPE	: SURFACE WATER		
SAMPLING DATE	: AUGUST 31, 2023		
SAMPLING TIME	: 10:25 HOUR		
SAMPLING METHOD °	: GRAB, GRAB AND STERILE TECHNIQUE		
SAMPLING BY °	: MR KRIDSANAPONG NAMTHIP		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS-SW2 T23AR004-0002	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.9 (29°C)	-
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	186 (29°C)	0.1
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: PART 2550 B)	29	-
DISSOLVED OXYGEN °	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G)	4.2	0.5
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B)	0.1	0.1
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	1.2	1.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	6.8	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	109	25
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	0.0032	0.0003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.301	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.003
MANGANESE °	mg/L Mn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.042	0.002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS-SW2 T23AR004-0002	
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	0.0005
TOTAL CHROMIUM °	mg/L Cr	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005
TOTAL MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	< LOQ	0.0001
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.SW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	0.028	0.003
MICROBIOLOGY				
FAECAL COLIFORM BACTERIA °	MPN/100 mL	MULTIPLE-TUBE FERMENTATION TECHNIQUE (SM: PART 9221 E)	70	1.8
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR 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, 23rd EDITION, 2017.

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

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL MERCURY ≥ 0.0001 AND < 0.0005 mg/L).

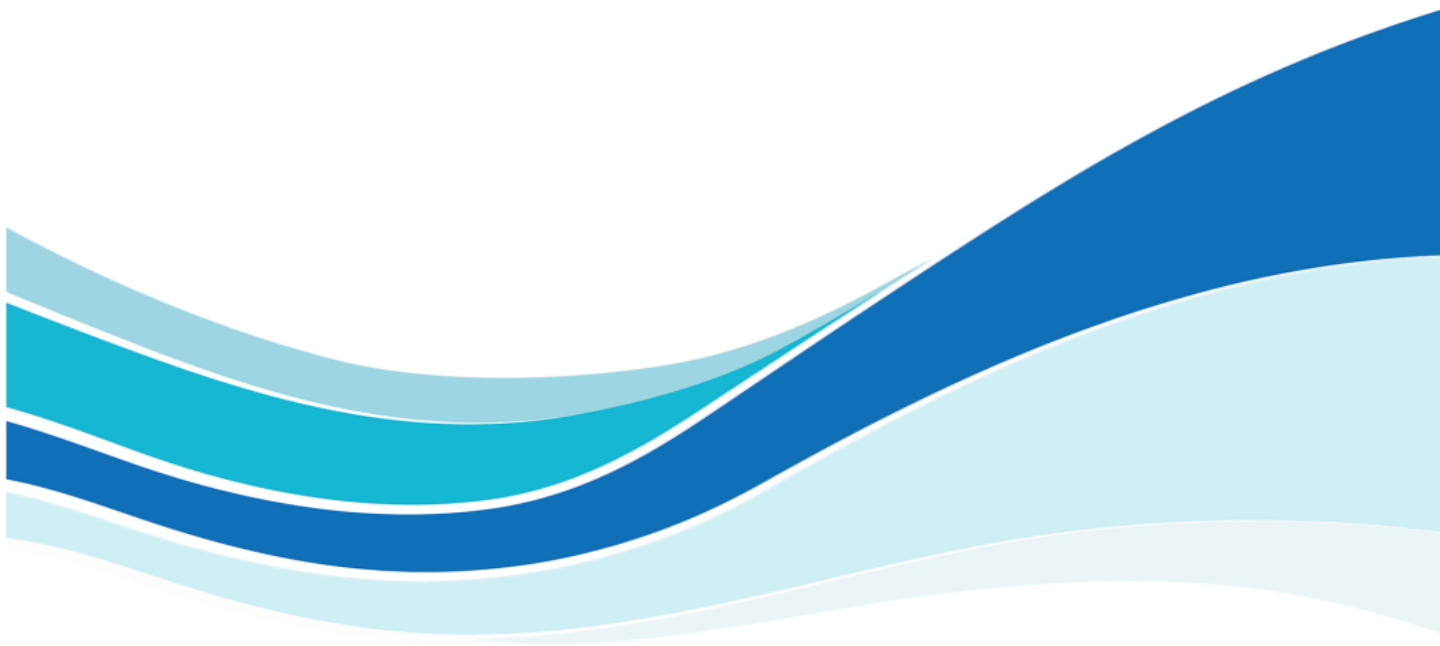
Bhuchonk p.

(MR BHUCHONK PANICHLERTUMPI)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023



ภาคผนวกที่ 39-4
คุณภาพน้ำใต้ดิน



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งท่าแพงแสน แปลง PTTEP1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS1 : บ่อสังเกตการณ์ในฐานหลุมผลิต
SAMPLE TYPE : GROUNDWATER
SAMPLING DATE : MARCH 24, 2023
SAMPLING TIME : 09:10 HOUR
SAMPLING METHOD ° : SUBMERSIBLE PUMP
SAMPLING BY ° : MR. KRIDSANAPONG NAMTHIP
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : MARCH 24, 2023
ANALYTICAL DATE : MARCH 24 - APRIL 5, 2023
REPORT NO. : 2023-U025811
WORK NO. : 2019-002414
ANALYSIS NO. : T23AF302-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS1 T23AF302-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM. PART 4500-H ⁺ B)	7.8 (30°C)	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM. PART 2550 B)	30	-
ELECTRICAL CONDUCTIVITY °	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM. PART 2510 B)	686 (30°C)	0.1
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM. PART 2520 B)	0.3	0.1
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM. PART 2540 C)	370	25
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM. PART 5520 D AND PART 5520 F)	ND	3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM. PART 3114 C)	0.0315	0.0003
BARIIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM. PART 3030 F AND PART 3120 B)	0.174	0.003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 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. PART 3030 E AND PART 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	0.308	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 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. PART 3030 E AND PART 3111 B	0.978	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM. PART 3112 B	ND	0.0001
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	ND	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS1 T23AF302-0001	
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM. PART 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. PART 3030 E AND PART 3111 B	ND	0.005
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	ND	0.003
VOLATILE ORGANIC COMPOUNDS				
BENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	0.20
ETHYLBENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	0.20
TOLUENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	0.20
TOTAL XYLENES °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.60	0.60
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			YELLOW/CLEAR	
SEDIMENT			BROWN	

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

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

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

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

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

ND : NON-DETECTABLE.

Benjawan V.

(MISS BENJAWAN VIRIYOTHA)
LABORATORY SUPERVISOR

APRIL 12, 2023

ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS1 : GW1 บ่อน้ำบาดาลบริเวณชุมชนวัดไร่ ต.ทุ่งลูกนก อ.กำแพงแสน จ.นครปฐม
SAMPLE TYPE : GROUNDWATER
SAMPLING DATE : MARCH 24, 2023
SAMPLING TIME : 09:30 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR KRIDSANAPONG NAMTHIP
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : MARCH 24, 2023
ANALYTICAL DATE : MARCH 24 - APRIL 5, 2023
REPORT NO. : 2023-U025812
WORK NO. : 2019-002414
ANALYSIS NO. : T23AF302-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT KS1 : GW1 T23AF302-0002	DETECTION LIMIT
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	8.2 (29°C)	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: PART 2550 B)	29	-
ELECTRICAL CONDUCTIVITY °	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	946 (29°C)	0.1
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B)	0.4	0.1
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	622	25
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	0.0008	0.0003
BARIIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	0.150	0.003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.079	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	< LOQ	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	0.0001
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT KS1 : GW1 T23AF302-0002	DETECTION LIMIT
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 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: PART 3030 E AND PART 3111 B	ND	0.005
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.048	0.003
VOLATILE ORGANIC COMPOUNDS				
BENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	0.20
ETHYLBENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	0.20
TOLUENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	0.20
TOTAL XYLENES °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.60	0.60
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	-

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

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

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

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

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

ND : NON-DETECTABLE.

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

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

APRIL 12, 2023

ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthiukP@pttep.com
SAMPLING SOURCE : KS1 : GW2 บ่อน้ำบาดาล บริเวณชุมชนหนองกร่าง ต.ทุ่งลูกนก อ.กำแพงแสน จ.นครปฐม
SAMPLE TYPE : GROUNDWATER
SAMPLING DATE : MARCH 24, 2023
SAMPLING TIME : 10:10 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR KRIDSANAPONG NAMTHIP
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : MARCH 24, 2023
ANALYTICAL DATE : MARCH 24 - APRIL 5, 2023
REPORT NO. : 2023-U025813
WORK NO. : 2019-002414
ANALYSIS NO. : T23AF302-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS1 : GW2 T23AF302-0003	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM. PART 4500-H ⁺ B)	8.0 (29°C)	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM. PART 2550 B)	29	-
ELECTRICAL CONDUCTIVITY °	µmhos/cm	ELECTRICAL CONDUCTIVITY METHOD (SM. PART 2510 B)	970 (25°C)	0.1
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM. PART 2520 B)	0.2	0.1
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM. PART 2540 C)	522	25
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM. PART 5520 D AND PART 5520 F)	ND	3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM. PART 3114 C)	ND	0.0003
BARIIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM. PART 3030 F AND PART 3120 B)	0.059	0.003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 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. PART 3030 E AND PART 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	0.393	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 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. PART 3030 E AND PART 3111 B	ND	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM. PART 3112 B	ND	0.0001
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	ND	0.005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS1 : GW2 T23AF302-0003	
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM. PART 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. PART 3030 E AND PART 3111 B	ND	0.005
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	< LOQ	0.003
VOLATILE ORGANIC COMPOUNDS				
BENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	0.20
ETHYLBENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	0.20
TOLUENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	0.20
TOTAL XYLENES °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.60	0.60
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR	

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

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

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

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

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

ND : NON-DETECTABLE.

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

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

APRIL 12, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งท่าแพงแสน แปลง PTTEP1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : -
SAMPLE TYPE : BLANK (GROUNDWATER)
SAMPLING DATE : -
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : -
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : MARCH 24, 2023
ANALYTICAL DATE : MARCH 24 - APRIL 5, 2023
REPORT NO. : 2023-U025809
WORK NO. : 2019-002414
ANALYSIS NO. : 2023-EB0049

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			EQUIPMENT BLANK 2023-EB0049	
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	ND	25
TOTAL PETROLEUM HYDROCARBONS	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	3
METALS				
ARSENIC	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	0.0003
BARIUM	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	ND	0.003
CADMIUM	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	ND	0.002
IRON	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	ND	0.002
MERCURY	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	0.0001
NICKEL	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005
SELENIUM	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 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: PART 3030 E AND PART 3111 B	ND	0.005
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.003



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			EQUIPMENT BLANK 2023-EB0049	
VOLATILE ORGANIC COMPOUNDS				
BENZENE	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	0.20
ETHYLBENZENE	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	0.20
TOLUENE	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	0.20
TOTAL XYLENES	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.60	0.60
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

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

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

APRIL 12, 2023

ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งก้าแพงแสน แปลง PTTEP1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 6TH & 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : -
SAMPLE TYPE : BLANK (GROUNDWATER)
SAMPLING DATE : -
SAMPLING TIME : -
SAMPLING METHOD : -
SAMPLING BY : -
ANALYZED BY : MISS PORNPIMOL WAENTHONG

RECEIVED DATE : MARCH 24, 2023
ANALYTICAL DATE : MARCH 24 - APRIL 5, 2023
REPORT NO. : 2023-U025810
WORK NO. : 2019-002414
ANALYSIS NO. : 2023-FB0284, 2023-TB0272

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			1 2023-FB0284	2 2023-TB0272	
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM. PART 2540 C)	ND	ND	25
TOTAL PETROLEUM HYDROCARBONS	mg/L	SOXHLET EXTRACTION METHOD (SM. PART 5520 D AND PART 5520 F)	ND	ND	3
METALS					
ARSENIC	mg/L As	HYDRIDE GENERATION AAS METHOD (SM. PART 3114 C)	ND	ND	0.0003
BARIUM	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM. PART 3030 F AND PART 3120 B)	ND	ND	0.003
CADMIUM	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	ND	ND	0.002
COPPER	mg/L Cu	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	ND	ND	0.002
IRON	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	ND	ND	0.005
LEAD	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	ND	ND	0.003
MANGANESE	mg/L Mn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	ND	ND	0.002
MERCURY	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM. PART 3112 B	ND	ND	0.0001
NICKEL	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	ND	ND	0.005
SELENIUM	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM. PART 3114 C)	ND	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. PART 3030 E AND PART 3111 B	ND	ND	0.005
ZINC	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM. PART 3030 E AND PART 3111 B	ND	ND	0.003

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• THIS ANALYSIS REPORT APPROVES ONLY FOR SUBMITTED SAMPLES.



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			1	2	
			2023-FB0284	2023-TB0272	
VOLATILE ORGANIC COMPOUNDS					
BENZENE	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	< 0.20	0.20
ETHYLBENZENE	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	< 0.20	0.20
TOLUENE	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.20	< 0.20	0.20
TOTAL XYLENES	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM. PART 6200 B)	< 0.60	< 0.60	0.60
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR	COLOURLESS/CLEAR	
SEDIMENT			-	-	

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
RESULT 1 : FIELD BLANK
RESULT 2 : TRIP BLANK
ND : NON-DETECTABLE.

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

APRIL 12, 2023

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

ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งท่าแพงแสน แปลง PTTEP1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A,19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS1 : บ่อส่งผลการผลิตในฐานหลุมผลิต
SAMPLE TYPE : GROUNDWATER
SAMPLING DATE : AUGUST 31, 2023
SAMPLING TIME : 09:00 HOUR
SAMPLING METHOD ° : SUBMERSIBLE PUMP
SAMPLING BY ° : MR KRIDSANAPONG NAMTHIP
ANALYZED BY : MISS NAPAPORN KHUNNOKKHAM

RECEIVED DATE : AUGUST 31, 2023
ANALYTICAL DATE : AUGUST 31-SEPTEMBER 12, 2023
REPORT NO. : 2023-U077024
WORK NO. : 2019-002414
ANALYSIS NO. : T23AR003-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS1 T23AR003-0001	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.5 (32°C)	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: PART 2550 B)	32	-
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	521 (32°C)	0.1
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B)	0.2	0.1
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	348	25
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	0.0421	0.0003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	0.205	0.003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	3.67	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	0.760	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	< LOQ	0.0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS1 T23AR003-0001	
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 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: PART 3030 E AND PART 3111 B	ND	0.005
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.027	0.003
VOLATILE ORGANIC COMPOUNDS				
BENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	0.20
ETHYLBENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	0.20
TOLUENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	0.20
TOTAL XYLENES °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.60	0.60
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23RD EDITION, 2017.
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23RD EDITION, 2017.
ND : NON-DETECTABLE.
< LOQ : < LIMIT OF QUANTITATION (MERCURY ≥ 0.0001 AND < 0.0005 mg/L).

Benjawan V.
(MISS BENJAWAN VIRIYOTHA)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งกำแพงแสน แปลง PTTEP1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS1 : GW1 บ่อน้ำบาดาลบริเวณชุมชนวัดใหม่ ต.ทุ่งลูกนก อ.กำแพงแสน จ.นครปฐม
SAMPLE TYPE : GROUNDWATER
SAMPLING DATE : AUGUST 31, 2023
SAMPLING TIME : 09:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR KRIDSANAPONG NAMTHIP
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : AUGUST 31, 2023
ANALYTICAL DATE : AUGUST 31-SEPTEMBER 12, 2023
REPORT NO. : 2023-U077025
WORK NO. : 2019-002414
ANALYSIS NO. : T23AR003-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS1 : GW1 T23AR003-0002	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.9 (30°C)	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: PART 2550 B)	30	-
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	940 (30°C)	0.1
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B)	0.4	0.1
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	722	25
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	0.0008	0.0003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	0.143	0.003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.160	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	< LOQ	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	ND	0.0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS1 : GW1 T23AR003-0002	
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 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: PART 3030 E AND PART 3111 B	ND	0.005
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.050	0.003
VOLATILE ORGANIC COMPOUNDS				
BENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	0.20
ETHYLBENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	0.20
TOLUENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	0.20
TOTAL XYLENES °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.60	0.60
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR	

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

^b : 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, 23rd EDITION, 2017.

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

ND : NON-DETECTABLE

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

Benjawan V.

(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023



ANALYSIS REPORT

PROJECT NAME : โครงการผลิตปิโตรเลียม แหล่งท่าแพงแสน แปลง PTTEP1 จังหวัดนครปฐม : KS1
CUSTOMER NAME : PTTEP INTERNATIONAL LIMITED
ADDRESS : 555/1 ENERGY COMPLEX BUILDING A, 19-36TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 9968 0061 e-mail : SutthilukP@pttep.com
SAMPLING SOURCE : KS1 : GW2 บ่อน้ำบาดาล บริเวณเขื่อนหนองกร่าง ต.ทุ่งลูกนก อ.ท่าแพงแสน จ.นครปฐม
SAMPLE TYPE : GROUNDWATER
SAMPLING DATE : AUGUST 31, 2023
SAMPLING TIME : 10:05 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR KRIDSANAPONG NAMTHIP
ANALYZED BY : MISS NAPAPORN KHUNNOKKHAM

RECEIVED DATE : AUGUST 31, 2023
ANALYTICAL DATE : AUGUST 31-SEPTEMBER 12, 2023
REPORT NO. : 2023-U077026
WORK NO. : 2019-002414
ANALYSIS NO. : T23AR003-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS1 : GW2 T23AR003-0003	
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	7.8 (29°C)	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: PART 2550 B)	29	-
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	465 (29°C)	0.1
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2520 B)	0.2	0.1
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	654	25
TOTAL PETROLEUM HYDROCARBONS °	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D AND PART 5520 F)	ND	3
METALS				
ARSENIC °	mg/L As	HYDRIDE GENERATION AAS METHOD (SM: PART 3114 C)	ND	0.0003
BARIUM °	mg/L Ba	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	0.056	0.003
CADMIUM °	mg/L Cd	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	ND	0.002
IRON °	mg/L Fe	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	0.339	0.005
LEAD °	mg/L Pb	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 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: PART 3030 E AND PART 3111 B	< LOQ	0.002
MERCURY °	mg/L Hg	IN-HOUSE METHOD: UAE.TP.HEM.002 (COLD VAPOUR ATOMIC ABSORPTION SPECTROMETRIC METHOD); SM: PART 3112 B	< LOQ	0.0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			KS1 : GW2 T23AR003-0003	
NICKEL °	mg/L Ni	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	ND	0.005
SELENIUM °	mg/L Se	HYDRIDE GENERATION AAS METHOD (SM: PART 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: PART 3030 E AND PART 3111 B	ND	0.005
ZINC °	mg/L Zn	IN-HOUSE METHOD: UAE.TP.GW.01 (NITRIC ACID DIGESTION AND DIRECT AIR ACETYLENE FLAME METHOD); SM: PART 3030 E AND PART 3111 B	< LOQ	0.003
VOLATILE ORGANIC COMPOUNDS				
BENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	0.20
ETHYLBENZENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	0.20
TOLUENE °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.20	0.20
TOTAL XYLENES °	µg/L	PURGE AND TRAP GAS CHROMATOGRAPHIC/MASS SPECTROMETRIC METHOD (SM: PART 6200 B)	< 0.60	0.60
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			YELLOW/CLEAR	
SEDIMENT			YELLOW	

° : 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, 23rd EDITION, 2017.

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

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (MANGANESE ≥ 0.002 AND < 0.025 mg/L, MERCURY ≥ 0.0001 AND < 0.0005 mg/L, ZINC ≥ 0.003 AND < 0.025 mg/L).

Benjawan V.
(MISS BENJAWAN VIRIYOTHAI)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023

