

ภาคผนวก ค
ใบรายงานผลการวิเคราะห์

ปริมาณของสารเจือปนในอากาศที่ระบายออกจากโรงงาน

ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
MEASURING SOURCE : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
MEASURING TYPE : STACK
MEASURING DATE : SEPTEMBER 2, 2023
MEASURING TIME : 10:20-10:30 HOUR
MEASURING METHOD : U.S. EPA METHOD 6C, 7E
MEASURED BY : MR APIWICH TOUNGTEE ๓-145-๓-0017

RECEIVED DATE : SEPTEMBER 2, 2023
ANALYTICAL DATE : SEPTEMBER 2, 2023
REPORT NO. : 2023-U076192
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR296-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			BOILER 60 T (NORMAL OPERATION) T23AR296-0001	
			ACTUAL OXYGEN	7% OXYGEN
SULPHUR DIOXIDE	ppm	PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 6C)	< 1	< 1
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 7E)	89	121
SAMPLE CONDITION			COMPLETE	

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR
๓-145-๓-0021
SEPTEMBER 22, 2023



ANALYSIS REPORT


CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : SEPTEMBER 2, 2023
SAMPLING TIME : 10:10-11:04 HOUR
SAMPLING BY : MR APIWICH TOUNGTEE จ-145-ก-0017
ANALYZED BY : MISS SUWAN KONGTHONG จ-145-ก-0025

RECEIVED DATE : SEPTEMBER 5, 2023
ANALYTICAL DATE : SEPTEMBER 5-8, 2023
REPORT NO. : 2023-U076191
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR296-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			BOILER 60 T (NORMAL OPERATION) T23AR296-0001	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	0.30	0.41
SAMPLE CONDITION			COMPLETE	

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.


.....
(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR
จ-145-ก-0011
SEPTEMBER 22, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
MEASURING SOURCE : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
MEASURING TYPE : STACK **RECEIVED DATE** : SEPTEMBER 2, 2023
MEASURING DATE : SEPTEMBER 2, 2023 **ANALYTICAL DATE** : SEPTEMBER 2, 2023
MEASURING TIME : 10:30-10:45 HOUR **REPORT NO.** : 2023-U076194
MEASURING METHOD : RINGELMANN'S METHOD **WORK NO.** : 2022-010908
MEASURED BY : MR JAKRAPUNT PUMMARIN จ-145-จ-0038 **ANALYSIS NO.** : T23AR296-0001
MR APIWICH TOUNGTEE จ-145-จ-0017

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			BOILER 60 T (NORMAL OPERATION) T23AR296-0001
OPACITY	%	RINGELMANN 'S METHOD	5



(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR
จ-145-ด-0021
SEPTEMBER 22, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : SEPTEMBER 2, 2023
SAMPLING TIME : 11:10-12:04 HOUR
SAMPLING BY : MR APIWICH TOUNGTEE ๓-145-๓-0017
ANALYZED BY : MISS SUWAN KONGTHONG ๓-145-๓-0025

RECEIVED DATE : SEPTEMBER 5, 2023
ANALYTICAL DATE : SEPTEMBER 5-8, 2023
REPORT NO. : 2023-U076195
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR296-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			BOILER 60 T (SOOT BLOW) T23AR296-0002	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	0.61	0.90
SAMPLE CONDITION			COMPLETE	

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR
๓-145-๓-0011
SEPTEMBER 22, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
MEASURING SOURCE : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
MEASURING TYPE : STACK
MEASURING DATE : SEPTEMBER 2, 2023
MEASURING TIME : 11:20-11:30 HOUR
MEASURING METHOD : U.S. EPA METHOD 6C, 7E
MEASURED BY : MR APIWICH TOUNGTEE ๓-145-๓-0017

RECEIVED DATE : SEPTEMBER 2, 2023
ANALYTICAL DATE : SEPTEMBER 2, 2023
REPORT NO. : 2023-U076196
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR296-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			BOILER 60 T (SOOT BLOW) T23AR296-0002	
			ACTUAL OXYGEN	7% OXYGEN
SULPHUR DIOXIDE	ppm	PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 6C)	< 1	< 1
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 7E)	65	95
SAMPLE CONDITION			COMPLETE	

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR
๓-145-๓-0021
SEPTEMBER 22, 2023



คุณภาพอากาศในบรรยากาศโดยทั่วไป

ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : โรงเรียนวัดทัพพนม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR SIRAPAT JONGPHADUNGKIET
ANALYZED BY : MISS JETJARIN TUMSA-AT
RECEIVED DATE : SEPTEMBER 11, 2023
ANALYTICAL DATE : SEPTEMBER 11-15, 2023
REPORT NO. : 2023-U078411
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR797-0022 - T23AR797-0024

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			โรงเรียนวัดทัพพนม		
			* T23AR797-0022	** T23AR797-0023	*** T23AR797-0024
TOTAL SUSPENDED PARTICULATE MATTER	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.031	0.035	0.031
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.015	0.021	0.015
FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm)	µg/m ³	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021	6.70	7.20	4.30
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
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 SEPTEMBER 1, 2023 TO 09:00 HOUR ON SEPTEMBER 2, 2023.
** : SAMPLING FROM 09:00 HOUR ON SEPTEMBER 2, 2023 TO 09:00 HOUR ON SEPTEMBER 3, 2023.
*** : SAMPLING FROM 09:00 HOUR ON SEPTEMBER 3, 2023 TO 09:00 HOUR ON SEPTEMBER 4, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

SEPTEMBER 19, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : โรงเรียนวัดทัพพวน
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***, ****
SAMPLING TIME : *, **, ***, ****
SAMPLING BY : MR SIRAPAT JONGPHADUNGKIET
ANALYZED BY : MISS JETJARIN TUMSA-AT
RECEIVED DATE : SEPTEMBER 11, 2023
ANALYTICAL DATE : SEPTEMBER 11-15, 2023
REPORT NO. : 2023-U078412
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR797-0025 - T23AR797-0028

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			โรงเรียนวัดทัพพวน			
			*	**	***	****
			T23AR797-0025	T23AR797-0026	T23AR797-0027	T23AR797-0028
TOTAL SUSPENDED PARTICULATE MATTER	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.030	0.046	0.039	0.034
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.013	0.030	0.021	0.019
FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm)	µg/m ³	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021	2.50	2.80	2.80	3.60
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
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 SEPTEMBER 4, 2023 TO 09:00 HOUR ON SEPTEMBER 5, 2023.
** : SAMPLING FROM 09:00 HOUR ON SEPTEMBER 5, 2023 TO 09:00 HOUR ON SEPTEMBER 6, 2023.
*** : SAMPLING FROM 09:00 HOUR ON SEPTEMBER 6, 2023 TO 09:00 HOUR ON SEPTEMBER 7, 2023.
**** : SAMPLING FROM 09:00 HOUR ON SEPTEMBER 7, 2023 TO 09:00 HOUR ON SEPTEMBER 8, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

SEPTEMBER 19, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : บ้านศิลาทอง
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR SIRAPAT JONGPHADUNGKIET
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : SEPTEMBER 11, 2023
ANALYTICAL DATE : SEPTEMBER 11-15, 2023
REPORT NO. : 2023-U078409
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR797-0015 - T23AR797-0017

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านศิลาทอง		
			* T23AR797-0015	** T23AR797-0016	*** T23AR797-0017
TOTAL SUSPENDED PARTICULATE MATTER	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.042	0.039	0.036
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.027	0.024	0.016
FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm)	µg/m ³	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021	2.80	7.00	6.40
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
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 08:30 HOUR ON SEPTEMBER 1, 2023 TO 08:30 HOUR ON SEPTEMBER 2, 2023.
** : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 2, 2023 TO 08:30 HOUR ON SEPTEMBER 3, 2023.
*** : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 3, 2023 TO 08:30 HOUR ON SEPTEMBER 4, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

SEPTEMBER 19, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : บ้านศิลาทอง
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***, ****
SAMPLING TIME : *, **, ***, ****
SAMPLING BY : MR SIRAPAT JONGPHADUNGKIE
ANALYZED BY : MISS JETJARIN TUMSA-AT
RECEIVED DATE : SEPTEMBER 11, 2023
ANALYTICAL DATE : SEPTEMBER 11-15, 2023
REPORT NO. : 2023-U078410
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR797-0018 - T23AR797-0021

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บ้านศิลาทอง			
			* T23AR797-0018	** T23AR797-0019	*** T23AR797-0020	**** T23AR797-0021
TOTAL SUSPENDED PARTICULATE MATTER	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.035	0.033	0.032	0.040
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.020	0.015	0.017	0.027
FINE PARTICULATE MATTER as PM2.5 (≤ 2.5 µm)	µg/m ³	US EPA, CODE OF FEDERAL REGULATION, 40 CFR CHAPTER I-PART 50, APPENDIX L, REFERENCE METHOD FOR THE DETERMINATION OF FINE PARTICULATE MATTER AS PM2.5 IN THE ATMOSPHERE, 2021	13.8	3.50	8.10	19.6
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.
PM2.5 : REPORTED AS PER ACTUAL FIELD CONDITIONS DURING SAMPLING.
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 08:30 HOUR ON SEPTEMBER 4, 2023 TO 08:30 HOUR ON SEPTEMBER 5, 2023.
** : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 5, 2023 TO 08:30 HOUR ON SEPTEMBER 6, 2023.
*** : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 6, 2023 TO 08:30 HOUR ON SEPTEMBER 7, 2023.
**** : SAMPLING FROM 08:30 HOUR ON SEPTEMBER 7, 2023 TO 08:30 HOUR ON SEPTEMBER 8, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

SEPTEMBER 19, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : บริเวณลานกองเชื้อเพลิงกลางแจ้ง ด้านนอกดาข่ายป้องกันฝุ่น ด้านใต้ลม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR SIRAPAT JONGPHADUNGKIET
ANALYZED BY : MISS JETJARIN TUMSA-AT
RECEIVED DATE : SEPTEMBER 11, 2023
ANALYTICAL DATE : SEPTEMBER 11-15, 2023
REPORT NO. : 2023-U078406
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR797-0008 - T23AR797-0010

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บริเวณลานกองเชื้อเพลิงกลางแจ้ง ด้านนอกดาข่ายป้องกันฝุ่น ด้านใต้ลม		
			* T23AR797-0008	** T23AR797-0009	*** T23AR797-0010
TOTAL SUSPENDED PARTICULATE MATTER	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.092	0.092	0.051
PARTICULATE MATTER (≤ 10 μm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.050	0.034	0.026
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 SEPTEMBER 1, 2023 TO 10:30 HOUR ON SEPTEMBER 2, 2023.
** : SAMPLING FROM 10:30 HOUR ON SEPTEMBER 2, 2023 TO 10:30 HOUR ON SEPTEMBER 3, 2023.
*** : SAMPLING FROM 10:30 HOUR ON SEPTEMBER 3, 2023 TO 10:30 HOUR ON SEPTEMBER 4, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

SEPTEMBER 19, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : บริเวณลานกองเชื้อเพลิงกลางแจ้ง ด้านนอกตาข่ายป้องกันฝุ่น ด้านใต้ลม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : * , ** , *** , ****
SAMPLING TIME : * , ** , *** , ****
SAMPLING BY : MR SIRAPAT JONGPHADUNGKIET
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : SEPTEMBER 11, 2023
ANALYTICAL DATE : SEPTEMBER 11-15, 2023
REPORT NO. : 2023-U078408
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR797-0011 - T23AR797-0014

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บริเวณลานกองเชื้อเพลิงกลางแจ้ง ด้านนอกตาข่ายป้องกันฝุ่น ด้านใต้ลม			
			* T23AR797-0011	** T23AR797-0012	*** T23AR797-0013	**** T23AR797-0014
TOTAL SUSPENDED PARTICULATE MATTER	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.108	0.098	0.099	0.065
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.020	0.045	0.061	0.044
SAMPLE CONDITION			COMPLETE	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 SEPTEMBER 4, 2023 TO 10:30 HOUR ON SEPTEMBER 5, 2023.
** : SAMPLING FROM 10:30 HOUR ON SEPTEMBER 5, 2023 TO 10:30 HOUR ON SEPTEMBER 6, 2023.
*** : SAMPLING FROM 10:30 HOUR ON SEPTEMBER 6, 2023 TO 10:30 HOUR ON SEPTEMBER 7, 2023.
**** : SAMPLING FROM 10:30 HOUR ON SEPTEMBER 7, 2023 TO 10:30 HOUR ON SEPTEMBER 8, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

SEPTEMBER 19, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : บริเวณลานกองเชื้อเพลิงกลางแจ้ง ด้านนอกตาข่ายป้องกันฝุ่น ด้านเหนือลม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : *, **, ***
SAMPLING TIME : *, **, ***
SAMPLING BY : MR SIRAPAT JONGPHADUNGKIET
ANALYZED BY : MISS JETJARIN TUMSA-AT
RECEIVED DATE : SEPTEMBER 11, 2023
ANALYTICAL DATE : SEPTEMBER 11-15, 2023
REPORT NO. : 2023-U078404
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR797-0001 - T23AR797-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บริเวณลานกองเชื้อเพลิงกลางแจ้ง ด้านนอกตาข่ายป้องกันฝุ่น ด้านเหนือลม		
			* T23AR797-0001	** T23AR797-0002	*** T23AR797-0003
TOTAL SUSPENDED PARTICULATE MATTER	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.090	0.069	0.042
PARTICULATE MATTER ($\leq 10 \mu\text{m}$)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.026	0.027	0.023
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 SEPTEMBER 1, 2023 TO 10:00 HOUR ON SEPTEMBER 2, 2023.
** : SAMPLING FROM 10:00 HOUR ON SEPTEMBER 2, 2023 TO 10:00 HOUR ON SEPTEMBER 3, 2023.
*** : SAMPLING FROM 10:00 HOUR ON SEPTEMBER 3, 2023 TO 10:00 HOUR ON SEPTEMBER 4, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

SEPTEMBER 19, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : บริเวณลานกองเชื้อเพลิงกลางแจ้ง ด้านนอกตาข่ายป้องกันฝุ่น ด้านเหนือลม
SAMPLE TYPE : AMBIENT
SAMPLING DATE : * , ** , *** , ****
SAMPLING TIME : * , ** , *** , ****
SAMPLING BY : MR SIRAPAT JONGPHADUNGKIET
ANALYZED BY : MISS JETJARIN TUMSA-AT
RECEIVED DATE : SEPTEMBER 11, 2023
ANALYTICAL DATE : SEPTEMBER 11-15, 2023
REPORT NO. : 2023-U078405
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR797-0004 - T23AR797-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บริเวณลานกองเชื้อเพลิงกลางแจ้ง ด้านนอกตาข่ายป้องกันฝุ่น ด้านเหนือลม			
			*	**	***	****
TOTAL SUSPENDED PARTICULATE MATTER	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	T23AR797-0004 0.063	T23AR797-0005 0.073	T23AR797-0006 0.076	T23AR797-0007 0.054
PARTICULATE MATTER (≤ 10 µm)	mg/m ³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.025	0.023	0.031	0.019
SAMPLE CONDITION			COMPLETE	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 SEPTEMBER 4, 2023 TO 10:00 HOUR ON SEPTEMBER 5, 2023.
** : SAMPLING FROM 10:00 HOUR ON SEPTEMBER 5, 2023 TO 10:00 HOUR ON SEPTEMBER 6, 2023.
*** : SAMPLING FROM 10:00 HOUR ON SEPTEMBER 6, 2023 TO 10:00 HOUR ON SEPTEMBER 7, 2023.
**** : SAMPLING FROM 10:00 HOUR ON SEPTEMBER 7, 2023 TO 10:00 HOUR ON SEPTEMBER 8, 2023.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

SEPTEMBER 19, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
MEASURING PLACE : บ้านศิลาทอง
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : SEPTEMBER 1-8, 2023
MEASURING DATE : SEPTEMBER 1-8, 2023 **ANALYTICAL DATE** : SEPTEMBER 1-8, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U077765
MEASURING METHOD : CHEMILUMINESCENCE **WORK NO.** : 2022-010908
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T23AR797-0015 - T23AR797-0021

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	บ้านศิลาทอง		
	SEPTEMBER 1-2, 2023 T23AR797-0015	SEPTEMBER 2-3, 2023 T23AR797-0016	SEPTEMBER 3-4, 2023 T23AR797-0017
07:00-08:00 HOUR	0.0191	0.0190	0.0176
08:00-09:00 HOUR	0.0195	0.0194	0.0185
09:00-10:00 HOUR	0.0196	0.0184	0.0190
10:00-11:00 HOUR	0.0193	0.0188	0.0185
11:00-12:00 HOUR	0.0194	0.0194	0.0190
12:00-13:00 HOUR	0.0183	0.0189	0.0187
13:00-14:00 HOUR	0.0190	0.0194	0.0191
14:00-15:00 HOUR	0.0193	0.0188	0.0193
15:00-16:00 HOUR	0.0189	0.0182	0.0202
16:00-17:00 HOUR	0.0189	0.0183	0.0193
17:00-18:00 HOUR	0.0196	0.0194	0.0183
18:00-19:00 HOUR	0.0190	0.0200	0.0180
19:00-20:00 HOUR	0.0189	0.0194	0.0183
20:00-21:00 HOUR	0.0180	0.0197	0.0179
21:00-22:00 HOUR	0.0183	0.0186	0.0175
22:00-23:00 HOUR	0.0176	0.0198	0.0176
23:00-00:00 HOUR	0.0176	0.0179	0.0177
00:00-01:00 HOUR	0.0177	0.0184	0.0170
01:00-02:00 HOUR	0.0183	0.0180	0.0178
02:00-03:00 HOUR	0.0178	0.0176	0.0177
03:00-04:00 HOUR	0.0180	0.0178	0.0185
04:00-05:00 HOUR	0.0181	0.0181	0.0197
05:00-06:00 HOUR	0.0173	0.0181	0.0187
06:00-07:00 HOUR	0.0195	0.0170	0.0194



TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	บ้านติลาทอง			
	SEPTEMBER 4-5, 2023 T23AR797-0018	SEPTEMBER 5-6, 2023 T23AR797-0019	SEPTEMBER 6-7, 2023 T23AR797-0020	SEPTEMBER 7-8, 2023 T23AR797-0021
07:00-08:00 HOUR	0.0191	0.0186	0.0191	0.0179
08:00-09:00 HOUR	0.0197	0.0189	0.0183	0.0192
09:00-10:00 HOUR	0.0195	0.0196	0.0200	0.0187
10:00-11:00 HOUR	0.0199	0.0187	0.0194	0.0202
11:00-12:00 HOUR	0.0191	0.0199	0.0192	0.0201
12:00-13:00 HOUR	0.0182	0.0188	0.0182	0.0191
13:00-14:00 HOUR	0.0181	0.0189	0.0184	0.0199
14:00-15:00 HOUR	0.0195	0.0189	0.0188	0.0196
15:00-16:00 HOUR	0.0196	0.0191	0.0186	0.0193
16:00-17:00 HOUR	0.0188	0.0187	0.0190	0.0191
17:00-18:00 HOUR	0.0189	0.0181	0.0200	0.0190
18:00-19:00 HOUR	0.0195	0.0199	0.0190	0.0179
19:00-20:00 HOUR	0.0185	0.0188	0.0181	0.0181
20:00-21:00 HOUR	0.0195	0.0182	0.0184	0.0194
21:00-22:00 HOUR	0.0184	0.0189	0.0184	0.0182
22:00-23:00 HOUR	0.0182	0.0181	0.0179	0.0179
23:00-00:00 HOUR	0.0183	0.0183	0.0184	0.0175
00:00-01:00 HOUR	0.0177	0.0171	0.0171	0.0177
01:00-02:00 HOUR	0.0172	0.0181	0.0172	0.0183
02:00-03:00 HOUR	0.0184	0.0177	0.0179	0.0183
03:00-04:00 HOUR	0.0184	0.0168	0.0171	0.0181
04:00-05:00 HOUR	0.0188	0.0179	0.0175	0.0182
05:00-06:00 HOUR	0.0184	0.0180	0.0181	0.0193
06:00-07:00 HOUR	0.0184	0.0197	0.0184	0.0191

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023

ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
MEASURING PLACE : โรงเรียนวัดทัพพมณ
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : SEPTEMBER 1-8, 2023
MEASURING DATE : SEPTEMBER 1-8, 2023 **ANALYTICAL DATE** : SEPTEMBER 1-8, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U077766
MEASURING METHOD : CHEMILUMINESCENCE **WORK NO.** : 2022-010908
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T23AR797-0022 - T23AR797-0028

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	โรงเรียนวัดทัพพมณ		
	SEPTEMBER 1-2, 2023 T23AR797-0022	SEPTEMBER 2-3, 2023 T23AR797-0023	SEPTEMBER 3-4, 2023 T23AR797-0024
07:00-08:00 HOUR	0.0166	0.0170	0.0182
08:00-09:00 HOUR	0.0181	0.0174	0.0177
09:00-10:00 HOUR	0.0178	0.0187	0.0167
10:00-11:00 HOUR	0.0170	0.0176	0.0182
11:00-12:00 HOUR	0.0170	0.0170	0.0167
12:00-13:00 HOUR	0.0184	0.0187	0.0165
13:00-14:00 HOUR	0.0182	0.0165	0.0173
14:00-15:00 HOUR	0.0164	0.0171	0.0169
15:00-16:00 HOUR	0.0189	0.0171	0.0187
16:00-17:00 HOUR	0.0178	0.0172	0.0171
17:00-18:00 HOUR	0.0184	0.0180	0.0177
18:00-19:00 HOUR	0.0183	0.0176	0.0173
19:00-20:00 HOUR	0.0171	0.0170	0.0168
20:00-21:00 HOUR	0.0170	0.0166	0.0168
21:00-22:00 HOUR	0.0162	0.0153	0.0154
22:00-23:00 HOUR	0.0151	0.0161	0.0164
23:00-00:00 HOUR	0.0163	0.0159	0.0159
00:00-01:00 HOUR	0.0148	0.0153	0.0156
01:00-02:00 HOUR	0.0154	0.0155	0.0162
02:00-03:00 HOUR	0.0155	0.0159	0.0158
03:00-04:00 HOUR	0.0155	0.0167	0.0164
04:00-05:00 HOUR	0.0167	0.0162	0.0171
05:00-06:00 HOUR	0.0173	0.0161	0.0176
06:00-07:00 HOUR	0.0177	0.0168	0.0183



TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	โรงเรียนวัดเทพนิมิต			
	SEPTEMBER 4-5, 2023 T23AR797-0025	SEPTEMBER 5-6, 2023 T23AR797-0026	SEPTEMBER 6-7, 2023 T23AR797-0027	SEPTEMBER 7-8, 2023 T23AR797-0028
07:00-08:00 HOUR	0.0170	0.0179	0.0173	0.0185
08:00-09:00 HOUR	0.0181	0.0182	0.0176	0.0177
09:00-10:00 HOUR	0.0181	0.0174	0.0179	0.0173
10:00-11:00 HOUR	0.0175	0.0175	0.0174	0.0165
11:00-12:00 HOUR	0.0168	0.0170	0.0172	0.0179
12:00-13:00 HOUR	0.0174	0.0187	0.0176	0.0168
13:00-14:00 HOUR	0.0183	0.0185	0.0165	0.0179
14:00-15:00 HOUR	0.0172	0.0170	0.0179	0.0167
15:00-16:00 HOUR	0.0178	0.0166	0.0167	0.0186
16:00-17:00 HOUR	0.0184	0.0181	0.0166	0.0170
17:00-18:00 HOUR	0.0170	0.0175	0.0183	0.0184
18:00-19:00 HOUR	0.0189	0.0172	0.0173	0.0180
19:00-20:00 HOUR	0.0186	0.0178	0.0167	0.0169
20:00-21:00 HOUR	0.0169	0.0175	0.0170	0.0168
21:00-22:00 HOUR	0.0171	0.0173	0.0163	0.0151
22:00-23:00 HOUR	0.0173	0.0178	0.0164	0.0165
23:00-00:00 HOUR	0.0164	0.0168	0.0156	0.0162
00:00-01:00 HOUR	0.0164	0.0162	0.0161	0.0160
01:00-02:00 HOUR	0.0161	0.0158	0.0154	0.0149
02:00-03:00 HOUR	0.0154	0.0155	0.0146	0.0162
03:00-04:00 HOUR	0.0161	0.0149	0.0157	0.0154
04:00-05:00 HOUR	0.0148	0.0150	0.0158	0.0165
05:00-06:00 HOUR	0.0158	0.0164	0.0169	0.0165
06:00-07:00 HOUR	0.0163	0.0165	0.0174	0.0181

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023

ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
MEASURING PLACE : บ้านศิลาทอง
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 1-8, 2023
MEASURING TIME : *
MEASURING METHOD : UV FLUORESCENCE
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 1-8, 2023
ANALYTICAL DATE : SEPTEMBER 1-8, 2023
REPORT NO. : 2023-U077767
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR797-0015 - T23AR797-0021

เวลา *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	บ้านศิลาทอง		
	SEPTEMBER 1-2, 2023 T23AR797-0015	SEPTEMBER 2-3, 2023 T23AR797-0016	SEPTEMBER 3-4, 2023 T23AR797-0017
07:00-08:00 HOUR	0.0045	0.0042	0.0040
08:00-09:00 HOUR	0.0044	0.0043	0.0042
09:00-10:00 HOUR	0.0045	0.0044	0.0044
10:00-11:00 HOUR	0.0042	0.0042	0.0046
11:00-12:00 HOUR	0.0042	0.0045	0.0043
12:00-13:00 HOUR	0.0042	0.0044	0.0046
13:00-14:00 HOUR	0.0044	0.0044	0.0046
14:00-15:00 HOUR	0.0047	0.0044	0.0045
15:00-16:00 HOUR	0.0046	0.0044	0.0043
16:00-17:00 HOUR	0.0046	0.0044	0.0045
17:00-18:00 HOUR	0.0044	0.0046	0.0046
18:00-19:00 HOUR	0.0043	0.0047	0.0047
19:00-20:00 HOUR	0.0046	0.0043	0.0045
20:00-21:00 HOUR	0.0043	0.0044	0.0043
21:00-22:00 HOUR	0.0040	0.0045	0.0041
22:00-23:00 HOUR	0.0041	0.0044	0.0041
23:00-00:00 HOUR	0.0041	0.0041	0.0040
00:00-01:00 HOUR	0.0037	0.0040	0.0037
01:00-02:00 HOUR	0.0038	0.0039	0.0039
02:00-03:00 HOUR	0.0040	0.0038	0.0039
03:00-04:00 HOUR	0.0039	0.0037	0.0039
04:00-05:00 HOUR	0.0041	0.0040	0.0039
05:00-06:00 HOUR	0.0040	0.0038	0.0039
06:00-07:00 HOUR	0.0041	0.0037	0.0038
AVERAGE 24 HOUR	0.0042	0.0042	0.0042



เวลา *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	บ้านติลาทอง			
	SEPTEMBER 4-5, 2023 T23AR797-0018	SEPTEMBER 5-6, 2023 T23AR797-0019	SEPTEMBER 6-7, 2023 T23AR797-0020	SEPTEMBER 7-8, 2023 T23AR797-0021
07:00-08:00 HOUR	0.0041	0.0044	0.0042	0.0040
08:00-09:00 HOUR	0.0045	0.0043	0.0046	0.0042
09:00-10:00 HOUR	0.0043	0.0044	0.0047	0.0043
10:00-11:00 HOUR	0.0045	0.0045	0.0046	0.0047
11:00-12:00 HOUR	0.0047	0.0043	0.0047	0.0045
12:00-13:00 HOUR	0.0043	0.0044	0.0044	0.0043
13:00-14:00 HOUR	0.0044	0.0045	0.0044	0.0047
14:00-15:00 HOUR	0.0043	0.0047	0.0043	0.0045
15:00-16:00 HOUR	0.0045	0.0047	0.0046	0.0042
16:00-17:00 HOUR	0.0043	0.0042	0.0045	0.0045
17:00-18:00 HOUR	0.0046	0.0047	0.0045	0.0045
18:00-19:00 HOUR	0.0044	0.0047	0.0046	0.0046
19:00-20:00 HOUR	0.0041	0.0046	0.0044	0.0046
20:00-21:00 HOUR	0.0038	0.0044	0.0042	0.0047
21:00-22:00 HOUR	0.0038	0.0043	0.0043	0.0043
22:00-23:00 HOUR	0.0041	0.0041	0.0045	0.0041
23:00-00:00 HOUR	0.0039	0.0037	0.0042	0.0037
00:00-01:00 HOUR	0.0037	0.0040	0.0041	0.0037
01:00-02:00 HOUR	0.0040	0.0038	0.0041	0.0041
02:00-03:00 HOUR	0.0043	0.0037	0.0038	0.0038
03:00-04:00 HOUR	0.0047	0.0040	0.0038	0.0037
04:00-05:00 HOUR	0.0042	0.0041	0.0040	0.0038
05:00-06:00 HOUR	0.0043	0.0043	0.0038	0.0040
06:00-07:00 HOUR	0.0042	0.0042	0.0041	0.0043
AVERAGE 24 HOUR	0.0043	0.0043	0.0043	0.0042

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023

ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
MEASURING PLACE : โรงเรียนวัดทัพพนัน
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : SEPTEMBER 1-8, 2023
MEASURING DATE : SEPTEMBER 1-8, 2023 **ANALYTICAL DATE** : SEPTEMBER 1-8, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U077768
MEASURING METHOD : UV FLUORESCENCE **WORK NO.** : 2022-010908
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T23AR797-0022 - T23AR797-0028

เวลา *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	โรงเรียนวัดทัพพนัน		
	SEPTEMBER 1-2, 2023 T23AR797-0022	SEPTEMBER 2-3, 2023 T23AR797-0023	SEPTEMBER 3-4, 2023 T23AR797-0024
07:00-08:00 HOUR	0.0040	0.0043	0.0041
08:00-09:00 HOUR	0.0041	0.0040	0.0043
09:00-10:00 HOUR	0.0041	0.0043	0.0043
10:00-11:00 HOUR	0.0041	0.0043	0.0042
11:00-12:00 HOUR	0.0042	0.0039	0.0043
12:00-13:00 HOUR	0.0042	0.0042	0.0043
13:00-14:00 HOUR	0.0042	0.0040	0.0041
14:00-15:00 HOUR	0.0040	0.0040	0.0041
15:00-16:00 HOUR	0.0039	0.0043	0.0039
16:00-17:00 HOUR	0.0041	0.0043	0.0039
17:00-18:00 HOUR	0.0041	0.0041	0.0040
18:00-19:00 HOUR	0.0042	0.0042	0.0040
19:00-20:00 HOUR	0.0040	0.0040	0.0040
20:00-21:00 HOUR	0.0035	0.0041	0.0043
21:00-22:00 HOUR	0.0036	0.0039	0.0040
22:00-23:00 HOUR	0.0035	0.0038	0.0039
23:00-00:00 HOUR	0.0039	0.0034	0.0036
00:00-01:00 HOUR	0.0039	0.0038	0.0039
01:00-02:00 HOUR	0.0037	0.0034	0.0038
02:00-03:00 HOUR	0.0035	0.0035	0.0035
03:00-04:00 HOUR	0.0038	0.0034	0.0034
04:00-05:00 HOUR	0.0039	0.0034	0.0039
05:00-06:00 HOUR	0.0040	0.0037	0.0035
06:00-07:00 HOUR	0.0041	0.0039	0.0035
AVERAGE 24 HOUR	0.0039	0.0039	0.0040



เวลา *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	โรงเรียนวัดทัพพมณ			
	SEPTEMBER 4-5, 2023 T23AR797-0025	SEPTEMBER 5-6, 2023 T23AR797-0026	SEPTEMBER 6-7, 2023 T23AR797-0027	SEPTEMBER 7-8, 2023 T23AR797-0028
07:00-08:00 HOUR	0.0039	0.0043	0.0043	0.0043
08:00-09:00 HOUR	0.0043	0.0042	0.0040	0.0040
09:00-10:00 HOUR	0.0039	0.0042	0.0041	0.0039
10:00-11:00 HOUR	0.0040	0.0039	0.0040	0.0042
11:00-12:00 HOUR	0.0043	0.0042	0.0042	0.0041
12:00-13:00 HOUR	0.0043	0.0039	0.0042	0.0042
13:00-14:00 HOUR	0.0041	0.0043	0.0039	0.0042
14:00-15:00 HOUR	0.0039	0.0040	0.0041	0.0039
15:00-16:00 HOUR	0.0043	0.0042	0.0039	0.0041
16:00-17:00 HOUR	0.0042	0.0040	0.0043	0.0040
17:00-18:00 HOUR	0.0039	0.0041	0.0039	0.0042
18:00-19:00 HOUR	0.0041	0.0039	0.0041	0.0039
19:00-20:00 HOUR	0.0042	0.0039	0.0043	0.0038
20:00-21:00 HOUR	0.0041	0.0041	0.0040	0.0034
21:00-22:00 HOUR	0.0039	0.0043	0.0038	0.0035
22:00-23:00 HOUR	0.0039	0.0039	0.0035	0.0037
23:00-00:00 HOUR	0.0035	0.0039	0.0037	0.0036
00:00-01:00 HOUR	0.0034	0.0036	0.0034	0.0039
01:00-02:00 HOUR	0.0035	0.0037	0.0037	0.0035
02:00-03:00 HOUR	0.0035	0.0036	0.0034	0.0039
03:00-04:00 HOUR	0.0034	0.0036	0.0036	0.0034
04:00-05:00 HOUR	0.0039	0.0036	0.0039	0.0039
05:00-06:00 HOUR	0.0040	0.0034	0.0041	0.0040
06:00-07:00 HOUR	0.0040	0.0039	0.0039	0.0042
AVERAGE 24 HOUR	0.0039	0.0039	0.0039	0.0039

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023

ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
MEASURING PLACE : บ้านคิลาทอง
MEASURING TYPE : AMBIENT (AIR)
MEASURING DATE : SEPTEMBER 1-8, 2023
MEASURING TIME : *
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 1-8, 2023
ANALYTICAL DATE : SEPTEMBER 1-8, 2023
REPORT NO. : 2023-U077769
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR797-0015 - T23AR797-0021

TIME *	RESULT (m/s)					
	บ้านคิลาทอง					
	SEPTEMBER 1-2, 2023 T23AR797-0015		SEPTEMBER 2-3, 2023 T23AR797-0016		SEPTEMBER 3-4, 2023 T23AR797-0017	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	2.1	E	1.8	SE	2.8	SSW
08:00-09:00 HOUR	2.6	E	1.3	SSW	2.1	S
09:00-10:00 HOUR	2.0	NNE	3.2	SSW	2.2	SSW
10:00-11:00 HOUR	3.3	NNE	1.4	SW	2.5	SSE
11:00-12:00 HOUR	3.2	NE	1.5	WSW	0.9	SE
12:00-13:00 HOUR	3.0	NE	0.6	W	3.4	S
13:00-14:00 HOUR	2.7	NE	1.8	W	3.3	SE
14:00-15:00 HOUR	0.9	E	1.6	WNW	1.2	SE
15:00-16:00 HOUR	2.0	ESE	1.4	WNW	2.5	ESE
16:00-17:00 HOUR	3.2	ESE	1.1	WNW	3.4	ESE
17:00-18:00 HOUR	2.0	S	3.0	NW	1.0	S
18:00-19:00 HOUR	2.6	SE	2.5	WNW	1.6	ESE
19:00-20:00 HOUR	1.9	E	0.6	NNW	3.3	SE
20:00-21:00 HOUR	2.7	ESE	0.6	NNW	2.9	S
21:00-22:00 HOUR	2.4	SSE	3.4	WNW	2.5	S
22:00-23:00 HOUR	0.6	SE	1.5	N	1.6	SE
23:00-00:00 HOUR	2.0	SE	1.1	N	2.0	SE
00:00-01:00 HOUR	0.7	SSE	0.6	N	2.9	S
01:00-02:00 HOUR	2.9	SE	1.0	NE	3.4	SSW
02:00-03:00 HOUR	0.9	SSW	0.7	ENE	2.0	SE
03:00-04:00 HOUR	1.1	ESE	3.2	E	2.9	SE
04:00-05:00 HOUR	1.0	S	1.2	E	2.7	S
05:00-06:00 HOUR	2.8	SSE	3.0	ESE	1.7	SSE
06:00-07:00 HOUR	2.8	SSE	3.3	S	1.2	S



TIME *	RESULT (m/s)							
	บันทึกผลการทดลอง							
	SEPTEMBER 4-5, 2023		SEPTEMBER 5-6, 2023		SEPTEMBER 6-7, 2023		SEPTEMBER 7-8, 2023	
	T23AR797-0018		T23AR797-0019		T23AR797-0020		T23AR797-0021	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	0.8	S	3.3	SE	2.0	SSE	1.2	SSE
08:00-09:00 HOUR	2.9	SE	3.4	ESE	0.9	ESE	3.2	S
09:00-10:00 HOUR	2.6	SSE	1.7	ESE	2.9	S	0.7	ESE
10:00-11:00 HOUR	0.5	SSE	0.8	S	1.2	ESE	1.5	S
11:00-12:00 HOUR	2.0	ESE	0.9	S	0.6	S	2.8	SE
12:00-13:00 HOUR	3.4	S	3.2	S	2.1	S	1.4	SSE
13:00-14:00 HOUR	2.9	SE	2.6	ESE	1.3	S	1.1	S
14:00-15:00 HOUR	1.5	S	1.6	SE	2.4	ESE	3.2	SE
15:00-16:00 HOUR	2.2	SSE	0.5	E	0.9	S	0.6	ESE
16:00-17:00 HOUR	3.0	SSE	0.6	SSE	2.7	SSW	1.9	SSE
17:00-18:00 HOUR	0.6	SSE	1.5	SSE	1.3	SW	1.3	SE
18:00-19:00 HOUR	0.8	SE	1.5	ESE	2.0	WSW	1.3	SSW
19:00-20:00 HOUR	0.6	S	2.1	ESE	0.7	W	0.6	SSW
20:00-21:00 HOUR	2.7	S	0.5	SSW	1.7	WSW	2.5	SE
21:00-22:00 HOUR	2.7	SE	2.3	S	2.3	WNW	1.7	ESE
22:00-23:00 HOUR	0.8	S	1.3	SSW	3.1	WNW	2.3	SE
23:00-00:00 HOUR	2.4	ESE	2.4	S	3.3	WNW	1.5	S
00:00-01:00 HOUR	2.2	SE	2.0	SE	3.2	W	1.5	ESE
01:00-02:00 HOUR	2.6	SSE	0.9	SSE	2.2	SW	0.9	SSE
02:00-03:00 HOUR	0.8	ESE	2.9	SE	0.6	SW	1.5	SSW
03:00-04:00 HOUR	2.2	SSE	3.3	S	0.6	SSW	2.4	SE
04:00-05:00 HOUR	3.3	S	0.8	SSE	2.3	SSE	2.7	ESE
05:00-06:00 HOUR	2.4	SSE	3.2	S	0.5	SE	0.6	S
06:00-07:00 HOUR	3.2	SSE	0.7	ESE	1.2	S	0.8	SSE

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023

ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
MEASURING PLACE : โรงเรียนวัดทัพพนัน
MEASURING TYPE : AMBIENT (AIR) **RECEIVED DATE** : SEPTEMBER 1-8, 2023
MEASURING DATE : SEPTEMBER 1-8, 2023 **ANALYTICAL DATE** : SEPTEMBER 1-8, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U077770
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT **WORK NO.** : 2022-010908
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T23AR797-0022 - T23AR797-0028

TIME *	RESULT (m/s)					
	โรงเรียนวัดทัพพนัน					
	SEPTEMBER 1-2, 2023 T23AR797-0022		SEPTEMBER 2-3, 2023 T23AR797-0023		SEPTEMBER 3-4, 2023 T23AR797-0024	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	1.1	E	3.2	SSW	2.1	SSW
08:00-09:00 HOUR	1.0	NNE	2.0	SSW	2.1	WSW
09:00-10:00 HOUR	1.5	E	1.3	WNW	3.1	WNW
10:00-11:00 HOUR	1.3	NNE	0.8	SSW	2.5	W
11:00-12:00 HOUR	3.3	NE	2.4	WNW	0.6	SW
12:00-13:00 HOUR	1.5	E	3.0	SW	1.1	W
13:00-14:00 HOUR	2.9	ESE	1.8	WSW	1.3	SW
14:00-15:00 HOUR	1.4	SE	2.1	WNW	1.6	WNW
15:00-16:00 HOUR	1.8	ESE	2.8	SSW	3.3	NW
16:00-17:00 HOUR	1.1	SSE	1.4	SW	2.9	NNW
17:00-18:00 HOUR	1.7	ESE	3.3	SW	3.1	N
18:00-19:00 HOUR	3.5	SSE	2.5	SSW	1.8	NNW
19:00-20:00 HOUR	0.8	SSE	1.8	SSE	1.0	NW
20:00-21:00 HOUR	0.9	SSE	2.0	S	1.0	N
21:00-22:00 HOUR	1.4	SSE	1.0	SSE	0.9	NNW
22:00-23:00 HOUR	1.4	ESE	3.5	SE	3.0	NNW
23:00-00:00 HOUR	2.6	SSE	3.5	ESE	2.0	NNW
00:00-01:00 HOUR	0.8	ESE	0.9	SSE	2.0	N
01:00-02:00 HOUR	2.0	S	3.5	E	0.6	N
02:00-03:00 HOUR	1.1	ESE	0.5	SSE	1.1	NNE
03:00-04:00 HOUR	0.8	SE	1.3	ESE	1.9	E
04:00-05:00 HOUR	2.4	SSW	2.1	S	2.0	E
05:00-06:00 HOUR	2.8	SSE	2.1	SSW	2.0	NE
06:00-07:00 HOUR	2.5	S	2.4	W	2.6	NE



TIME *	RESULT (m/s)							
	โรงเรียนวัดทัพพิน							
	SEPTEMBER 4-5, 2023		SEPTEMBER 5-6, 2023		SEPTEMBER 6-7, 2023		SEPTEMBER 7-8, 2023	
	T23AR797-0025		T23AR797-0026		T23AR797-0027		T23AR797-0028	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	1.1	E	2.8	S	3.3	ESE	2.6	WSW
08:00-09:00 HOUR	1.5	ENE	0.7	S	3.1	SSE	3.0	WNW
09:00-10:00 HOUR	2.5	E	2.1	SSE	1.6	SSE	1.3	WSW
10:00-11:00 HOUR	2.3	ESE	1.5	SSW	1.6	SE	2.1	SW
11:00-12:00 HOUR	3.0	ESE	2.9	ESE	2.5	S	2.8	WSW
12:00-13:00 HOUR	1.0	SSE	1.5	SE	1.0	S	1.1	SSW
13:00-14:00 HOUR	3.4	SSE	1.9	SSE	2.6	SE	2.2	SW
14:00-15:00 HOUR	2.0	ESE	0.6	SSW	3.3	SSE	1.6	WSW
15:00-16:00 HOUR	0.6	ESE	0.7	S	1.5	S	0.8	SSW
16:00-17:00 HOUR	2.8	SE	3.1	S	3.5	S	1.6	WSW
17:00-18:00 HOUR	3.4	S	2.0	S	2.2	ESE	1.5	SW
18:00-19:00 HOUR	2.0	SE	1.7	ESE	0.8	SSE	1.5	S
19:00-20:00 HOUR	1.9	S	2.9	SE	1.4	S	0.9	SSE
20:00-21:00 HOUR	1.8	SSE	2.4	ESE	2.2	SE	2.6	S
21:00-22:00 HOUR	3.3	S	0.9	ESE	1.7	ESE	3.1	SE
22:00-23:00 HOUR	0.5	SE	1.3	SE	2.7	SE	1.8	SSW
23:00-00:00 HOUR	0.6	SSE	2.0	E	1.3	ESE	1.4	S
00:00-01:00 HOUR	2.7	ESE	2.0	ESE	2.7	S	1.3	SSE
01:00-02:00 HOUR	2.0	SE	2.9	ESE	2.0	ESE	3.1	SE
02:00-03:00 HOUR	1.0	SSW	3.4	SE	3.3	SSE	3.3	S
03:00-04:00 HOUR	0.8	SSW	3.4	SE	2.2	SSE	3.2	SE
04:00-05:00 HOUR	3.0	S	1.3	ESE	1.5	ESE	3.1	S
05:00-06:00 HOUR	1.2	S	3.1	S	2.0	SSW	1.7	ESE
06:00-07:00 HOUR	0.6	SE	2.4	S	2.6	SSW	1.2	S



(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023

ระดับเสียงโดยทั่วไป

ANALYSIS REPORT

CUSTOMER NAME	: BANRAI ELECTRICITY GENERATING COMPANY LIMITED	RECEIVED DATE	: SEPTEMBER 1-8, 2023
ADDRESS	: 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: SEPTEMBER 1-8, 2023
CONTACT INFORMATION	: TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com	REPORT NO.	: 2023-U077773
MEASURING SOURCE	: โรงเรียนวัดทัพพนัน	WORK NO.	: 2022-010908
MEASURING TYPE	: AMBIENT (NOISE)	ANALYSIS NO.	: T23AR798-0001 - T23AR798-0007
MEASURING DATE	: SEPTEMBER 1-8, 2023		
MEASURING TIME	: *		
MEASURING METHOD	: INTEGRATED SOUND LEVEL METER		
MEASURED BY	: MR SIRAPAT JONGPHADUNGKIET		

TIME*	RESULT dB(A)		
	โรงเรียนวัดทัพพนัน		
	SEPTEMBER 1-2, 2023		
	T23AR798-0001		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	53.1	72.4	41.9
08:00-09:00 HOUR	51.4	73.4	43.3
09:00-10:00 HOUR	51.1	67.9	43.8
10:00-11:00 HOUR	53.1	75.3	43.9
11:00-12:00 HOUR	57.5	73.5	45.2
12:00-13:00 HOUR	53.8	70.3	45.2
13:00-14:00 HOUR	58.2	79.9	45.8
14:00-15:00 HOUR	57.8	80.5	44.9
15:00-16:00 HOUR	53.3	68.3	44.9
16:00-17:00 HOUR	59.6	73.7	47.7
17:00-18:00 HOUR	55.4	71.8	48.2
18:00-19:00 HOUR	58.5	72.8	43.9
19:00-20:00 HOUR	54.1	75.0	46.7
20:00-21:00 HOUR	48.7	69.3	41.8
21:00-22:00 HOUR	49.1	69.8	41.8
22:00-23:00 HOUR	57.7	76.8	41.9
23:00-00:00 HOUR	46.4	65.8	40.5
00:00-01:00 HOUR	45.2	62.5	40.1
01:00-02:00 HOUR	52.6	72.3	40.8
02:00-03:00 HOUR	45.7	59.2	41.1
03:00-04:00 HOUR	55.8	73.5	41.0
04:00-05:00 HOUR	49.1	67.3	42.6
05:00-06:00 HOUR	52.4	69.9	40.7
06:00-07:00 HOUR	56.8	78.4	42.0
L _{Aeq} 24 hours		54.9	
L _{Adn}		60.2	



TIME*	RESULT dB(A)		
	โรงเรียนวัดทัพพมณีน		
	SEPTEMBER 2-3, 2023		
	T23AR798-0002		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	58.5	81.1	41.8
08:00-09:00 HOUR	56.3	74.9	42.1
09:00-10:00 HOUR	51.5	59.4	46.8
10:00-11:00 HOUR	53.4	78.7	41.4
11:00-12:00 HOUR	55.4	76.6	41.3
12:00-13:00 HOUR	52.0	71.9	41.9
13:00-14:00 HOUR	51.0	68.0	42.1
14:00-15:00 HOUR	53.8	67.6	47.2
15:00-16:00 HOUR	53.4	60.6	49.4
16:00-17:00 HOUR	53.8	72.0	43.1
17:00-18:00 HOUR	50.9	69.8	42.5
18:00-19:00 HOUR	57.2	72.9	43.7
19:00-20:00 HOUR	51.8	67.9	42.6
20:00-21:00 HOUR	53.1	71.7	44.3
21:00-22:00 HOUR	49.8	69.1	41.5
22:00-23:00 HOUR	51.5	68.4	42.1
23:00-00:00 HOUR	50.7	71.4	42.3
00:00-01:00 HOUR	52.9	75.2	43.2
01:00-02:00 HOUR	50.2	68.6	41.8
02:00-03:00 HOUR	49.4	61.8	43.5
03:00-04:00 HOUR	45.9	60.1	42.9
04:00-05:00 HOUR	48.5	61.3	44.4
05:00-06:00 HOUR	49.2	59.8	46.8
06:00-07:00 HOUR	50.3	62.9	47.4
L _{Aeq} 24 hours		53.1	
L _{Adn}		57.5	

TIME*	RESULT dB(A)		
	โรงเรียนวัดทัพพนม		
	SEPTEMBER 3-4, 2023		
	T23AR798-0003		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	53.7	70.7	48.4
08:00-09:00 HOUR	52.5	65.7	49.8
09:00-10:00 HOUR	51.8	62.0	49.3
10:00-11:00 HOUR	53.1	65.2	50.7
11:00-12:00 HOUR	51.4	58.4	49.9
12:00-13:00 HOUR	52.4	64.1	49.2
13:00-14:00 HOUR	50.7	54.1	49.5
14:00-15:00 HOUR	50.0	54.3	48.5
15:00-16:00 HOUR	50.5	60.8	49.0
16:00-17:00 HOUR	55.6	72.0	47.1
17:00-18:00 HOUR	58.3	74.0	50.0
18:00-19:00 HOUR	51.2	68.8	44.6
19:00-20:00 HOUR	51.8	68.0	45.9
20:00-21:00 HOUR	55.4	74.6	44.6
21:00-22:00 HOUR	55.2	77.4	45.9
22:00-23:00 HOUR	55.0	76.9	46.6
23:00-00:00 HOUR	53.4	71.3	46.8
00:00-01:00 HOUR	56.3	75.9	46.9
01:00-02:00 HOUR	53.2	77.5	46.2
02:00-03:00 HOUR	49.5	67.5	46.7
03:00-04:00 HOUR	48.7	63.0	44.4
04:00-05:00 HOUR	49.1	62.4	44.5
05:00-06:00 HOUR	51.5	64.1	46.6
06:00-07:00 HOUR	52.7	63.8	48.8
L _{Aeq} 24 hours		53.3	
L _{Adn}		59.4	

TIME*	RESULT dB(A)		
	โรงเรียนวัดทัพพมณ		
	SEPTEMBER 4-5, 2023		
	T23AR798-0004		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	55.2	73.4	49.2
08:00-09:00 HOUR	52.3	72.0	45.7
09:00-10:00 HOUR	54.3	72.4	45.7
10:00-11:00 HOUR	55.5	78.4	44.4
11:00-12:00 HOUR	49.9	59.2	48.0
12:00-13:00 HOUR	52.1	60.2	49.3
13:00-14:00 HOUR	54.1	66.0	51.3
14:00-15:00 HOUR	52.5	63.2	50.7
15:00-16:00 HOUR	52.4	55.5	50.7
16:00-17:00 HOUR	50.9	56.1	48.2
17:00-18:00 HOUR	50.9	56.8	48.8
18:00-19:00 HOUR	50.3	54.7	48.5
19:00-20:00 HOUR	50.1	68.7	48.2
20:00-21:00 HOUR	50.1	58.5	48.3
21:00-22:00 HOUR	49.5	51.9	48.2
22:00-23:00 HOUR	49.6	54.7	47.3
23:00-00:00 HOUR	49.6	54.1	48.0
00:00-01:00 HOUR	50.1	62.3	48.4
01:00-02:00 HOUR	50.1	56.7	48.6
02:00-03:00 HOUR	50.4	53.4	49.1
03:00-04:00 HOUR	50.5	54.2	49.2
04:00-05:00 HOUR	49.6	52.2	46.5
05:00-06:00 HOUR	49.6	52.3	47.9
06:00-07:00 HOUR	49.3	58.9	45.9
L _{Aeq} 24 hours		51.7	
L _{Adn}		56.8	

TIME*	RESULT dB(A)		
	โรงเรียนวัดทัพพมณ		
	SEPTEMBER 5-6, 2023		
	T23AR798-0005		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	50.1	57.6	48.6
08:00-09:00 HOUR	52.4	70.8	47.1
09:00-10:00 HOUR	50.1	62.9	48.1
10:00-11:00 HOUR	49.8	56.1	48.2
11:00-12:00 HOUR	49.5	51.9	48.3
12:00-13:00 HOUR	53.7	69.9	48.2
13:00-14:00 HOUR	50.8	67.3	47.5
14:00-15:00 HOUR	51.5	66.5	47.4
15:00-16:00 HOUR	55.2	70.6	48.7
16:00-17:00 HOUR	53.4	69.2	46.3
17:00-18:00 HOUR	55.3	73.3	48.1
18:00-19:00 HOUR	52.2	64.9	49.2
19:00-20:00 HOUR	50.3	56.0	48.8
20:00-21:00 HOUR	51.0	66.1	48.5
21:00-22:00 HOUR	50.0	57.1	48.1
22:00-23:00 HOUR	50.5	58.4	48.3
23:00-00:00 HOUR	50.2	58.9	48.2
00:00-01:00 HOUR	49.3	52.6	47.4
01:00-02:00 HOUR	49.0	55.5	46.7
02:00-03:00 HOUR	44.7	52.4	42.8
03:00-04:00 HOUR	44.4	53.5	42.8
04:00-05:00 HOUR	44.6	58.8	43.1
05:00-06:00 HOUR	47.5	63.9	41.6
06:00-07:00 HOUR	49.1	68.8	40.5
L _{Aeq} 24 hours		51.0	
L _{Adn}		55.5	

TIME*	RESULT dB(A)		
	โรงเรียนวัดทัพพมณ		
	SEPTEMBER 6-7, 2023		
	T23AR798-0006		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	51.1	69.8	44.8
08:00-09:00 HOUR	54.4	75.7	44.6
09:00-10:00 HOUR	52.5	74.6	46.1
10:00-11:00 HOUR	50.0	66.9	45.2
11:00-12:00 HOUR	59.8	81.4	45.5
12:00-13:00 HOUR	56.2	77.8	44.2
13:00-14:00 HOUR	52.8	72.1	44.8
14:00-15:00 HOUR	49.2	60.9	47.6
15:00-16:00 HOUR	49.4	55.0	47.8
16:00-17:00 HOUR	49.0	55.4	47.2
17:00-18:00 HOUR	48.8	51.6	47.0
18:00-19:00 HOUR	49.4	53.4	47.8
19:00-20:00 HOUR	49.5	56.5	47.6
20:00-21:00 HOUR	48.8	51.8	46.9
21:00-22:00 HOUR	49.1	53.5	47.5
22:00-23:00 HOUR	49.3	51.9	47.7
23:00-00:00 HOUR	46.3	51.8	42.3
00:00-01:00 HOUR	53.1	70.8	42.2
01:00-02:00 HOUR	50.1	71.6	43.9
02:00-03:00 HOUR	50.8	70.5	43.6
03:00-04:00 HOUR	51.9	72.6	42.2
04:00-05:00 HOUR	49.5	68.0	45.0
05:00-06:00 HOUR	47.4	68.9	42.1
06:00-07:00 HOUR	54.3	69.9	42.2
L _{Aeq} 24 hours		52.2	
L _{Adn}		57.7	

TIME*	RESULT dB(A)		
	โรงเรียนวัดทัพพมณ		
	SEPTEMBER 7-8, 2023		
	T23AR798-0007		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	51.4	71.8	46.0
08:00-09:00 HOUR	48.4	59.1	46.5
09:00-10:00 HOUR	47.8	56.8	45.7
10:00-11:00 HOUR	47.9	59.3	44.4
11:00-12:00 HOUR	58.6	80.9	45.5
12:00-13:00 HOUR	50.2	64.2	45.6
13:00-14:00 HOUR	55.9	76.3	45.4
14:00-15:00 HOUR	51.8	65.3	44.6
15:00-16:00 HOUR	54.1	75.3	47.2
16:00-17:00 HOUR	55.7	72.1	47.6
17:00-18:00 HOUR	51.6	69.7	46.5
18:00-19:00 HOUR	50.2	61.4	46.8
19:00-20:00 HOUR	48.7	63.5	46.0
20:00-21:00 HOUR	49.7	70.0	42.5
21:00-22:00 HOUR	45.4	61.0	41.0
22:00-23:00 HOUR	46.1	62.4	41.7
23:00-00:00 HOUR	49.6	67.2	40.7
00:00-01:00 HOUR	49.2	61.7	41.5
01:00-02:00 HOUR	49.3	66.9	41.2
02:00-03:00 HOUR	52.4	69.5	41.8
03:00-04:00 HOUR	48.9	72.5	41.3
04:00-05:00 HOUR	51.0	72.9	40.4
05:00-06:00 HOUR	49.4	71.6	40.3
06:00-07:00 HOUR	52.8	68.2	41.1
L _{Aeq} 24 hours		51.9	
L _{Adn}		57.1	



(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023

ANALYSIS REPORT

CUSTOMER NAME	: BANRAI ELECTTICITY GENERATING COMPANY LIMITED	RECEIVED DATE	: SEPTEMBER 1-8, 2023
ADDRESS	: 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: SEPTEMBER 1-8, 2023
CONTACT INFORMATION	: TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com	REPORT NO.	: 2023-U077776
MEASURING SOURCE	: บ้านคิลาทอง	WORK NO.	: 2022-010908
MEASURING TYPE	: AMBIENT (NOISE)	ANALYSIS NO.	: T23AR798-0008 - T23AR798-0014
MEASURING DATE	: SEPTEMBER 1-8, 2023		
MEASURING TIME	: *		
MEASURING METHOD	: INTEGRATED SOUND LEVEL METER		
MEASURED BY	: MR SIRAPAT JONGPHADUNGKIET		

TIME*	RESULT dB(A)		
	บ้านคิลาทอง		
	SEPTEMBER 1-2, 2023		
	T23AR798-0008		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	51.1	54.7	49.5
08:00-09:00 HOUR	49.7	53.2	48.3
09:00-10:00 HOUR	51.4	55.1	49.0
10:00-11:00 HOUR	51.5	57.0	50.0
11:00-12:00 HOUR	50.9	55.1	49.5
12:00-13:00 HOUR	52.1	69.4	49.8
13:00-14:00 HOUR	53.2	72.9	50.7
14:00-15:00 HOUR	51.5	54.9	50.7
15:00-16:00 HOUR	51.7	57.2	51.0
16:00-17:00 HOUR	52.3	55.0	51.5
17:00-18:00 HOUR	52.7	55.4	51.8
18:00-19:00 HOUR	53.2	62.5	52.0
19:00-20:00 HOUR	49.0	51.8	48.1
20:00-21:00 HOUR	48.2	52.1	47.5
21:00-22:00 HOUR	44.9	48.2	43.8
22:00-23:00 HOUR	45.2	52.7	43.7
23:00-00:00 HOUR	44.5	48.3	43.6
00:00-01:00 HOUR	45.2	49.9	43.4
01:00-02:00 HOUR	45.2	59.8	43.6
02:00-03:00 HOUR	44.6	48.3	43.5
03:00-04:00 HOUR	45.6	51.7	44.1
04:00-05:00 HOUR	44.7	48.2	43.8
05:00-06:00 HOUR	49.7	51.3	48.2
06:00-07:00 HOUR	48.9	53.8	48.1
L _{Aeq} 24 hours		50.0	
L _{Adn}		53.9	



TIME*	RESULT dB(A)		
	บ้านคิลาทอง		
	SEPTEMBER 2-3, 2023		
	T23AR798-0009		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	53.0	55.3	52.1
08:00-09:00 HOUR	52.5	54.6	51.7
09:00-10:00 HOUR	52.8	55.1	51.8
10:00-11:00 HOUR	52.4	54.7	51.6
11:00-12:00 HOUR	52.2	54.6	51.3
12:00-13:00 HOUR	52.5	55.4	51.2
13:00-14:00 HOUR	52.4	55.0	51.3
14:00-15:00 HOUR	51.4	53.4	50.4
15:00-16:00 HOUR	51.5	54.3	50.4
16:00-17:00 HOUR	51.7	54.5	50.5
17:00-18:00 HOUR	51.0	53.6	50.1
18:00-19:00 HOUR	50.9	53.8	50.1
19:00-20:00 HOUR	50.5	53.3	49.5
20:00-21:00 HOUR	50.4	53.6	49.3
21:00-22:00 HOUR	48.4	51.2	47.5
22:00-23:00 HOUR	47.9	50.4	47.2
23:00-00:00 HOUR	47.6	49.6	46.8
00:00-01:00 HOUR	48.0	51.3	47.3
01:00-02:00 HOUR	48.5	51.7	47.1
02:00-03:00 HOUR	47.7	51.9	46.1
03:00-04:00 HOUR	48.6	52.6	46.3
04:00-05:00 HOUR	47.3	50.6	46.4
05:00-06:00 HOUR	48.0	52.1	46.3
06:00-07:00 HOUR	49.2	50.9	48.2
L _{Aeq} 24 hours		50.7	
L _{Adn}		55.3	

TIME*	RESULT dB(A)		
	บ้านติลาทอง		
	SEPTEMBER 3-4, 2023		
	T23AR798-0010		
	LAeq 1 hour	LAmx 1 hour	LA90 1 hour
07:00-08:00 HOUR	51.1	54.3	49.5
08:00-09:00 HOUR	51.1	58.2	49.6
09:00-10:00 HOUR	50.9	54.7	49.7
10:00-11:00 HOUR	51.0	54.9	50.0
11:00-12:00 HOUR	51.6	53.6	50.6
12:00-13:00 HOUR	52.0	55.0	50.9
13:00-14:00 HOUR	51.4	53.5	50.3
14:00-15:00 HOUR	51.2	54.4	49.9
15:00-16:00 HOUR	50.8	54.1	49.5
16:00-17:00 HOUR	52.0	56.3	49.6
17:00-18:00 HOUR	53.4	59.3	49.6
18:00-19:00 HOUR	52.5	58.0	49.3
19:00-20:00 HOUR	50.7	59.5	48.7
20:00-21:00 HOUR	49.4	53.6	48.1
21:00-22:00 HOUR	48.8	51.8	47.7
22:00-23:00 HOUR	47.7	53.0	46.9
23:00-00:00 HOUR	48.3	51.6	46.6
00:00-01:00 HOUR	47.6	51.6	46.4
01:00-02:00 HOUR	46.9	50.9	45.7
02:00-03:00 HOUR	46.7	52.7	45.4
03:00-04:00 HOUR	45.5	53.7	44.0
04:00-05:00 HOUR	45.2	53.8	43.6
05:00-06:00 HOUR	45.7	60.5	43.4
06:00-07:00 HOUR	47.9	51.1	43.9
L _{Aeq} 24 hours		50.1	
L _{Adn}		54.3	

TIME*	RESULT dB(A)		
	บ้านติลาทอง		
	SEPTEMBER 4-5, 2023		
	T23AR798-0011		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	51.0	54.2	49.6
08:00-09:00 HOUR	50.1	53.3	48.9
09:00-10:00 HOUR	50.5	53.5	48.9
10:00-11:00 HOUR	50.1	53.1	48.5
11:00-12:00 HOUR	49.8	53.3	48.3
12:00-13:00 HOUR	49.9	52.9	48.5
13:00-14:00 HOUR	50.0	53.7	48.6
14:00-15:00 HOUR	50.5	54.1	49.5
15:00-16:00 HOUR	50.5	53.5	48.9
16:00-17:00 HOUR	48.6	52.4	46.6
17:00-18:00 HOUR	48.5	55.7	46.5
18:00-19:00 HOUR	48.1	53.5	45.9
19:00-20:00 HOUR	49.0	53.1	47.1
20:00-21:00 HOUR	45.6	58.4	40.7
21:00-22:00 HOUR	48.1	52.0	45.1
22:00-23:00 HOUR	46.7	49.4	45.9
23:00-00:00 HOUR	44.3	48.9	42.5
00:00-01:00 HOUR	44.3	49.0	42.8
01:00-02:00 HOUR	45.9	53.4	40.2
02:00-03:00 HOUR	46.6	53.2	43.1
03:00-04:00 HOUR	45.5	51.3	40.4
04:00-05:00 HOUR	47.9	57.0	43.5
05:00-06:00 HOUR	44.9	53.5	43.2
06:00-07:00 HOUR	46.4	55.9	41.9
L _{Aeq} 24 hours	48.5		
L _{Adn}	53.1		

TIME*	RESULT dB(A)		
	บ้านคิลาทอง		
	SEPTEMBER 5-6, 2023		
	T23AR798-0012		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	47.7	52.2	43.6
08:00-09:00 HOUR	49.5	71.0	41.9
09:00-10:00 HOUR	50.6	55.2	45.5
10:00-11:00 HOUR	50.5	59.9	45.1
11:00-12:00 HOUR	51.0	58.9	44.3
12:00-13:00 HOUR	51.9	59.9	47.7
13:00-14:00 HOUR	54.5	62.3	48.5
14:00-15:00 HOUR	53.5	58.5	45.6
15:00-16:00 HOUR	54.5	57.4	45.2
16:00-17:00 HOUR	53.2	57.3	44.9
17:00-18:00 HOUR	52.3	62.0	45.5
18:00-19:00 HOUR	52.6	65.0	43.3
19:00-20:00 HOUR	45.7	52.8	42.5
20:00-21:00 HOUR	45.5	52.1	42.6
21:00-22:00 HOUR	45.9	53.0	43.7
22:00-23:00 HOUR	44.7	54.7	41.2
23:00-00:00 HOUR	50.1	73.1	41.6
00:00-01:00 HOUR	45.2	55.3	43.2
01:00-02:00 HOUR	49.0	59.2	43.8
02:00-03:00 HOUR	47.6	56.3	45.0
03:00-04:00 HOUR	48.8	56.2	47.1
04:00-05:00 HOUR	49.3	55.3	47.9
05:00-06:00 HOUR	50.6	58.9	48.9
06:00-07:00 HOUR	50.2	53.5	48.6
L _{Aeq} 24 hours		50.7	
L _{Adn}		55.7	

TIME*	RESULT dB(A)		
	บ้านตลาดทอง		
	SEPTEMBER 6-7, 2023		
	T23AR798-0013		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	50.7	53.7	49.1
08:00-09:00 HOUR	49.6	51.3	49.0
09:00-10:00 HOUR	49.9	52.0	49.2
10:00-11:00 HOUR	50.3	52.7	49.6
11:00-12:00 HOUR	50.2	52.2	49.5
12:00-13:00 HOUR	51.6	59.1	49.9
13:00-14:00 HOUR	50.1	52.0	49.4
14:00-15:00 HOUR	51.6	54.0	49.4
15:00-16:00 HOUR	49.8	51.5	49.2
16:00-17:00 HOUR	50.0	52.6	49.3
17:00-18:00 HOUR	50.2	51.7	49.7
18:00-19:00 HOUR	50.0	52.9	49.1
19:00-20:00 HOUR	46.5	55.0	43.8
20:00-21:00 HOUR	47.6	57.8	43.9
21:00-22:00 HOUR	47.1	57.6	42.9
22:00-23:00 HOUR	45.9	56.1	43.0
23:00-00:00 HOUR	44.9	50.2	43.8
00:00-01:00 HOUR	46.1	50.3	45.3
01:00-02:00 HOUR	47.5	51.3	46.8
02:00-03:00 HOUR	47.1	49.2	46.5
03:00-04:00 HOUR	46.6	51.5	40.9
04:00-05:00 HOUR	47.7	49.6	47.0
05:00-06:00 HOUR	47.9	51.7	47.2
06:00-07:00 HOUR	48.0	50.5	47.5
L _{Aeq} 24 hours		49.0	
L _{Adn}		53.9	

TIME*	RESULT dB(A)		
	บ้านศิลาทอง		
	SEPTEMBER 7-8, 2023		
	T23AR798-0014		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	48.6	50.8	47.4
08:00-09:00 HOUR	49.7	51.2	49.1
09:00-10:00 HOUR	50.2	52.2	49.5
10:00-11:00 HOUR	50.7	54.2	49.8
11:00-12:00 HOUR	53.5	58.5	51.1
12:00-13:00 HOUR	52.0	56.6	50.7
13:00-14:00 HOUR	52.2	56.5	49.6
14:00-15:00 HOUR	50.4	54.2	49.2
15:00-16:00 HOUR	50.6	59.5	49.7
16:00-17:00 HOUR	49.1	51.5	48.5
17:00-18:00 HOUR	48.7	50.1	48.3
18:00-19:00 HOUR	48.8	50.9	48.3
19:00-20:00 HOUR	48.7	51.3	48.2
20:00-21:00 HOUR	48.1	49.5	47.6
21:00-22:00 HOUR	48.4	49.9	47.9
22:00-23:00 HOUR	47.9	49.5	47.5
23:00-00:00 HOUR	46.9	49.2	46.4
00:00-01:00 HOUR	46.6	48.0	46.1
01:00-02:00 HOUR	46.5	47.7	46.1
02:00-03:00 HOUR	47.7	50.1	47.2
03:00-04:00 HOUR	47.5	49.1	47.0
04:00-05:00 HOUR	47.4	58.3	46.8
05:00-06:00 HOUR	47.7	55.4	47.0
06:00-07:00 HOUR	47.8	53.2	47.2
L _{Aeq} 24 hours		49.4	
L _{Adn}		54.3	

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023

ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
MEASURING SOURCE : โรงไฟฟ้าโครงการ
MEASURING TYPE : AMBIENT (NOISE)
MEASURING DATE : SEPTEMBER 1-8, 2023
MEASURING TIME : *
MEASURING METHOD : INTEGRATED SOUND LEVEL METER
MEASURED BY : MR SIRAPAT JONGPHADUNGKIET

RECEIVED DATE : SEPTEMBER 1-8, 2023
ANALYTICAL DATE : SEPTEMBER 1-8, 2023
REPORT NO. : 2023-U077778
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR798-0015 - T23AR798-0021

TIME*	RESULT dB(A)		
	โรงไฟฟ้าโครงการ		
	SEPTEMBER 1-2, 2023		
	T23AR798-0015		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	55.7	74.4	48.1
08:00-09:00 HOUR	54.9	68.4	50.5
09:00-10:00 HOUR	55.3	68.1	49.7
10:00-11:00 HOUR	56.1	72.6	47.6
11:00-12:00 HOUR	54.3	69.2	47.9
12:00-13:00 HOUR	55.4	73.0	47.6
13:00-14:00 HOUR	55.1	69.4	48.2
14:00-15:00 HOUR	52.6	67.1	47.4
15:00-16:00 HOUR	56.1	72.6	50.8
16:00-17:00 HOUR	56.4	72.4	48.0
17:00-18:00 HOUR	55.4	69.2	49.3
18:00-19:00 HOUR	58.9	71.5	50.7
19:00-20:00 HOUR	58.7	81.1	48.6
20:00-21:00 HOUR	60.4	80.3	47.8
21:00-22:00 HOUR	54.6	70.7	49.1
22:00-23:00 HOUR	55.4	65.9	50.9
23:00-00:00 HOUR	54.3	66.3	47.3
00:00-01:00 HOUR	53.3	65.2	47.1
01:00-02:00 HOUR	48.8	56.8	45.6
02:00-03:00 HOUR	49.5	61.8	45.9
03:00-04:00 HOUR	49.1	61.5	45.9
04:00-05:00 HOUR	56.7	71.6	46.9
05:00-06:00 HOUR	54.6	66.8	46.4
06:00-07:00 HOUR	54.0	70.1	46.6
L _{Aeq} 24 hours		55.6	
L _{Adn}		60.6	



TIME*	RESULT dB(A)		
	รื้อถอนโครงการ		
	SEPTEMBER 2-3, 2023		
	T23AR798-0016		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	61.9	88.8	46.1
08:00-09:00 HOUR	50.2	63.4	45.4
09:00-10:00 HOUR	51.0	65.8	45.6
10:00-11:00 HOUR	53.0	75.5	43.7
11:00-12:00 HOUR	50.0	67.3	43.9
12:00-13:00 HOUR	49.8	67.3	41.3
13:00-14:00 HOUR	50.7	63.6	43.1
14:00-15:00 HOUR	51.2	68.4	45.9
15:00-16:00 HOUR	52.8	68.9	44.1
16:00-17:00 HOUR	54.7	74.8	43.6
17:00-18:00 HOUR	58.2	80.6	44.1
18:00-19:00 HOUR	56.1	79.4	43.3
19:00-20:00 HOUR	55.3	70.2	44.5
20:00-21:00 HOUR	58.3	76.1	43.4
21:00-22:00 HOUR	57.1	76.1	45.1
22:00-23:00 HOUR	54.4	70.9	45.8
23:00-00:00 HOUR	56.3	73.8	44.4
00:00-01:00 HOUR	55.8	77.2	43.1
01:00-02:00 HOUR	51.5	69.5	43.4
02:00-03:00 HOUR	54.8	70.5	40.8
03:00-04:00 HOUR	47.7	57.9	43.0
04:00-05:00 HOUR	49.8	64.0	45.3
05:00-06:00 HOUR	51.0	69.7	41.2
06:00-07:00 HOUR	52.2	79.8	41.3
L _{Aeq} 24 hours		54.9	
L _{Adn}		60.2	

TIME*	RESULT dB(A)		
	ริมรั้วโครงการ		
	SEPTEMBER 3-4, 2023		
	T23AR798-0017		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	54.9	64.2	44.9
08:00-09:00 HOUR	55.1	63.8	43.7
09:00-10:00 HOUR	58.0	75.1	45.6
10:00-11:00 HOUR	59.1	83.5	45.6
11:00-12:00 HOUR	58.6	79.9	46.9
12:00-13:00 HOUR	56.3	82.8	43.5
13:00-14:00 HOUR	51.4	72.8	42.8
14:00-15:00 HOUR	52.9	71.7	41.9
15:00-16:00 HOUR	52.7	75.3	41.9
16:00-17:00 HOUR	50.6	65.4	43.4
17:00-18:00 HOUR	53.4	64.8	44.1
18:00-19:00 HOUR	53.4	65.0	47.2
19:00-20:00 HOUR	54.3	66.4	47.8
20:00-21:00 HOUR	51.7	64.8	45.8
21:00-22:00 HOUR	50.4	66.0	46.0
22:00-23:00 HOUR	51.7	69.7	45.1
23:00-00:00 HOUR	54.8	73.8	47.7
00:00-01:00 HOUR	48.7	61.3	44.7
01:00-02:00 HOUR	49.5	66.0	44.1
02:00-03:00 HOUR	47.3	61.5	43.7
03:00-04:00 HOUR	47.6	58.6	44.8
04:00-05:00 HOUR	48.3	64.4	44.0
05:00-06:00 HOUR	48.0	61.4	43.2
06:00-07:00 HOUR	51.5	69.5	42.4
L _{Aeq} 24 hours		53.8	
L _{Adn}		57.9	

TIME*	RESULT dB(A)		
	ริมรั้วโครงการ		
	SEPTEMBER 4-5, 2023		
	T23AR798-0018		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	54.0	65.3	47.9
08:00-09:00 HOUR	55.7	73.7	49.5
09:00-10:00 HOUR	54.3	71.1	47.6
10:00-11:00 HOUR	53.3	74.4	46.0
11:00-12:00 HOUR	59.6	79.6	48.1
12:00-13:00 HOUR	57.9	80.5	48.4
13:00-14:00 HOUR	53.4	65.3	47.9
14:00-15:00 HOUR	55.4	74.9	47.4
15:00-16:00 HOUR	51.4	67.0	46.1
16:00-17:00 HOUR	52.3	65.1	47.9
17:00-18:00 HOUR	51.3	56.6	48.1
18:00-19:00 HOUR	50.3	56.0	47.9
19:00-20:00 HOUR	48.4	51.4	47.2
20:00-21:00 HOUR	48.3	53.1	47.1
21:00-22:00 HOUR	49.7	57.1	47.4
22:00-23:00 HOUR	49.6	65.5	47.5
23:00-00:00 HOUR	49.5	62.5	47.0
00:00-01:00 HOUR	48.5	60.9	46.2
01:00-02:00 HOUR	49.5	60.5	46.0
02:00-03:00 HOUR	49.0	62.7	45.5
03:00-04:00 HOUR	47.7	57.6	45.4
04:00-05:00 HOUR	48.4	61.9	45.7
05:00-06:00 HOUR	50.4	70.4	48.9
06:00-07:00 HOUR	50.0	52.5	49.2
L _{Aeq} 24 hours		53.0	
L _{Adn}		56.8	

TIME*	RESULT dB(A)		
	รับใช้โครงการ		
	SEPTEMBER 5-6, 2023		
	T23AR798-0019		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	52.4	65.3	41.8
08:00-09:00 HOUR	57.4	74.4	42.2
09:00-10:00 HOUR	61.4	85.5	40.5
10:00-11:00 HOUR	62.0	80.6	40.6
11:00-12:00 HOUR	60.2	77.8	40.7
12:00-13:00 HOUR	61.6	84.0	42.3
13:00-14:00 HOUR	57.9	78.7	43.2
14:00-15:00 HOUR	57.2	79.0	42.1
15:00-16:00 HOUR	53.6	62.2	41.4
16:00-17:00 HOUR	55.9	70.9	46.5
17:00-18:00 HOUR	55.7	60.9	54.0
18:00-19:00 HOUR	54.0	59.2	51.4
19:00-20:00 HOUR	49.4	55.0	47.3
20:00-21:00 HOUR	49.7	68.6	42.3
21:00-22:00 HOUR	47.9	70.8	41.6
22:00-23:00 HOUR	49.1	74.9	41.8
23:00-00:00 HOUR	48.2	67.0	42.4
00:00-01:00 HOUR	49.8	63.8	43.9
01:00-02:00 HOUR	51.1	66.4	43.6
02:00-03:00 HOUR	48.0	65.2	44.3
03:00-04:00 HOUR	51.7	70.4	45.6
04:00-05:00 HOUR	50.6	65.1	47.2
05:00-06:00 HOUR	48.2	57.7	46.4
06:00-07:00 HOUR	50.4	60.5	46.8
L _{Aeq} 24 hours		56.1	
L _{Adn}		58.6	

TIME*	RESULT dB(A)		
	ริมรั้วโครงการ		
	SEPTEMBER 6-7, 2023		
	T23AR798-0020		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	55.8	57.7	55.3
08:00-09:00 HOUR	55.6	57.2	55.1
09:00-10:00 HOUR	55.5	57.6	54.9
10:00-11:00 HOUR	55.7	57.7	55.1
11:00-12:00 HOUR	55.8	58.1	55.2
12:00-13:00 HOUR	55.7	57.6	55.1
13:00-14:00 HOUR	55.3	57.5	54.7
14:00-15:00 HOUR	55.0	57.1	54.4
15:00-16:00 HOUR	54.9	57.2	54.3
16:00-17:00 HOUR	53.4	58.2	52.7
17:00-18:00 HOUR	53.3	55.5	52.6
18:00-19:00 HOUR	52.7	54.7	52.1
19:00-20:00 HOUR	52.6	54.8	51.9
20:00-21:00 HOUR	49.6	57.8	41.3
21:00-22:00 HOUR	49.8	64.7	43.1
22:00-23:00 HOUR	48.9	64.7	43.6
23:00-00:00 HOUR	47.1	62.7	42.4
00:00-01:00 HOUR	48.3	62.9	43.5
01:00-02:00 HOUR	49.4	64.8	44.2
02:00-03:00 HOUR	49.9	62.4	42.1
03:00-04:00 HOUR	48.8	63.6	41.5
04:00-05:00 HOUR	48.2	64.3	42.1
05:00-06:00 HOUR	47.8	63.8	43.3
06:00-07:00 HOUR	48.3	57.4	43.4
L _{Aeq} 24 hours		53.0	
L _{Adn}		56.5	

TIME*	RESULT dB(A)		
	ริมรั้วโครงการ		
	SEPTEMBER 7-8, 2023		
	T23AR798-0021		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	49.5	56.5	44.8
08:00-09:00 HOUR	54.8	56.8	54.2
09:00-10:00 HOUR	54.6	56.5	54.0
10:00-11:00 HOUR	54.0	55.4	53.6
11:00-12:00 HOUR	54.1	56.7	53.6
12:00-13:00 HOUR	54.0	55.8	53.4
13:00-14:00 HOUR	53.9	56.1	53.3
14:00-15:00 HOUR	53.8	55.9	53.2
15:00-16:00 HOUR	53.6	55.4	53.1
16:00-17:00 HOUR	53.6	55.5	53.0
17:00-18:00 HOUR	53.5	55.7	52.9
18:00-19:00 HOUR	53.4	55.4	52.9
19:00-20:00 HOUR	51.3	56.6	47.7
20:00-21:00 HOUR	51.9	56.5	49.0
21:00-22:00 HOUR	50.7	53.6	49.1
22:00-23:00 HOUR	52.9	57.4	49.1
23:00-00:00 HOUR	53.0	63.2	48.7
00:00-01:00 HOUR	49.8	56.0	47.6
01:00-02:00 HOUR	48.7	56.7	47.3
02:00-03:00 HOUR	49.6	53.5	47.6
03:00-04:00 HOUR	49.9	54.3	47.6
04:00-05:00 HOUR	47.6	53.6	45.4
05:00-06:00 HOUR	48.4	55.7	45.6
06:00-07:00 HOUR	50.0	63.3	46.8
L _{Aeq} 24 hours		52.4	
L _{Adn}		57.3	

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

SEPTEMBER 15, 2023

คุณภาพน้ำทิ้ง

ANALYSIS REPORT

CUSTOMER NAME	: BANRAI ELECTRICITY GENERATING COMPANY LIMITED	RECEIVED DATE	: JULY 7, 2023
ADDRESS	: 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: JULY 7-17, 2023
CONTACT INFORMATION	: TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com	REPORT NO.	: 2023-U062407
SAMPLING SOURCE	: บ้านไร่ผลิตไฟฟ้า จังหวัดอุทัยธานี	WORK NO.	: 2022-010908
SAMPLE TYPE	: EFFLUENT	ANALYSIS NO.	: T23AM993-0001
SAMPLING DATE	: JULY 6, 2023		
SAMPLING TIME	: 10:35 HOUR		
SAMPLING METHOD °	: GRAB		
SAMPLING BY °	: MR SUKSAN BOONLEANG		
ANALYZED BY	: MISS AKSARIN BUNKONG		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บอปป้าบ๊อปป้า บอปป้าบ๊อปป้า T23AM993-0001		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	8.9 (31°C)	5.5-9.0	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: PART 2550 B)	31	≤ 40	-
FLOW RATE °	m ³ /hr	CURRENT METER AND CALCULATION	0	-	-
DISSOLVED OXYGEN °	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G)	3.5	-	0.5
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	8.2	≤ 20	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	32.5	≤ 120	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	15.4	≤ 50	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	1,114	≤ 3,000	25
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			BROWN/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

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

AUGUST 4, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : บ้านไร่ผลิตไฟฟ้า จังหวัดอุทัยธานี
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : SEPTEMBER 7, 2023
SAMPLING TIME : 10:40 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR SUKSAN BOONLEANG
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : SEPTEMBER 8, 2023
ANALYTICAL DATE : SEPTEMBER 8-20, 2023
REPORT NO. : 2023-U083568
WORK NO. : 2022-010908
ANALYSIS NO. : T23AR631-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่งชี้ค่าน้ำเสีย บ่งชี้ค่า T23AR631-0001		
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	9.0 (31°C)	5.5-9.0	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM: PART 2550 B)	31	≤ 40	-
FLOW RATE ^c	m ³ /hr	CURRENT METER AND CALCULATION	0	-	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G)	2.9	-	0.5
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	4.1	≤ 20	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	30.0	≤ 120	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	15.6	≤ 50	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	1,010	≤ 3,000	25
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

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

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

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

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

OCTOBER 5, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : น้ำตาลไทยรุ่งเรือง - อุตสาหกรรม น้ำตาลบ้านไร่
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : OCTOBER 3, 2023
SAMPLING TIME : 15:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR SUKSAN BOONLEANG
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : OCTOBER 4, 2023
ANALYTICAL DATE : OCTOBER 4-11, 2023
REPORT NO. : 2023-U087670
WORK NO. : 2022-010908
ANALYSIS NO. : T23AT686-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			ปอป่ามัดน้ำเสีย ปอสุดท้าย T23AT686-0001		
pH ^c	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	8.8 (3 rd C)	5.5-9.0	-
TEMPERATURE ^c	°C	LABORATORY AND FIELD METHODS (SM: PART 2550 B)	31	≤ 40	-
FLOW RATE ^c	m ³ /hr	CURRENT METER AND CALCULATION	0	-	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G)	4.6	-	0.5
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	9.5	≤ 20	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	315	≤ 120	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	23.5	≤ 50	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	1,009	≤ 3,000	25
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID GREEN		

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

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

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

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

OCTOBER 20, 2023



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : น้ำตาลไทยรุ่งเรือง - อุตสาหกรรม น้ำตาลบ้านไร่
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : NOVEMBER 13, 2023
SAMPLING TIME : 15:05 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR SUKSAN BOONLEANG
ANALYZED BY : MISS AKSARIN BUNKONG

RECEIVED DATE : NOVEMBER 14, 2023
ANALYTICAL DATE : NOVEMBER 14-20, 2023
REPORT NO. : 2023-U104336
WORK NO. : 2022-010908
ANALYSIS NO. : T23AW691-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			แปลภาษา แปล T23AW691-0001		
pH °	-	ELECTROMETRIC METHOD AT SITE (SM: PART 4500-H ⁺ B)	8.9 (31°C)	5.5-9.0	-
TEMPERATURE °	°C	LABORATORY AND FIELD METHODS (SM: PART 2550 B)	31	≤ 40	-
FLOW RATE °	m ³ /hr	CURRENT METER AND CALCULATION	0	-	-
DISSOLVED OXYGEN °	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G)	3.5	-	0.5
BIOCHEMICAL OXYGEN DEMAND °	mg/L	5-DAY BOD TEST, MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	5.1	≤ 20	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	33.2	≤ 120	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	DRIED AT 103-105 °C (SM: PART 2540 D)	11.6	≤ 50	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	DRIED AT 180 °C (SM: PART 2540 C)	994	≤ 3,000	25
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID GREEN		

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

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

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

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

DECEMBER 14, 2023



ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : น้ำตาลไทยรุ่งเรือง - อุตสาหกรรม น้ำตาลบ้านไร่
SAMPLE TYPE : WASTEWATER
SAMPLING DATE : DECEMBER 7, 2023
SAMPLING TIME : 10:50 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR SUKSAN BOONLEANG
ANALYZED BY : MISS AKSARIN BUNKONG
RECEIVED DATE : DECEMBER 8, 2023
ANALYTICAL DATE : DECEMBER 8-17, 2023
REPORT NO. : 2023-U109722
WORK NO. : 2022-010908
ANALYSIS NO. : T23AY544-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บ่อบำบัดน้ำเสีย บ่อสุดท้าย T23AY544-0001		
pH ^c	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	8.7 (29°C)	5.5-9.0	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM: PART 2550 B)	29	≤ 40	-
FLOW RATE ^c	m ³ /hr	CURRENT METER AND CALCULATION	0	-	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G)	4.4	-	0.5
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	3.6	≤ 20	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	35.8	≤ 120	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	10.6	≤ 50	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	1,035	≤ 3,000	25
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	≤ 5	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID GREEN		

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

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

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

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

REGULATORY STANDARD : INDUSTRIAL EFFLUENT STANDARDS, NOTIFICATION OF THE MINISTRY OF INDUSTRY, B.E. 2560,
PUBLISHED IN THE ROYAL GOVERNMENT GAZETTE, VOL. 134, PART 153 D, DATED JUNE 7, 2017.

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

DECEMBER 21, 2023



คุณภาพน้ำผิวดิน

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : บริษัท บ้านไร่ผลิตไฟฟ้า จำกัด
SAMPLE TYPE : SURFACE WATER
SAMPLING DATE : DECEMBER 25, 2023
SAMPLING TIME : 11:40 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR SUKSAN BOONLEANG
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : DECEMBER 25, 2023
ANALYTICAL DATE : DECEMBER 25, 2023 - JANUARY 4, 2024
REPORT NO. : 2024-U003353
WORK NO. : 2023-010616
ANALYSIS NO. : T23AZ949-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริเวณเหนือจุดสูบน้ำ ของโครงการ ประมาณ 500 เมตร T23AZ949-0001		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.6 (25°C)	5.0-9.0	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: PART 2550 B)	25	n'	-
FLOW RATE °	m ³ /s	CURRENT METER AND CALCULATION	0.971	-	-
DISSOLVED OXYGEN °	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM: PART 4500-O C)	5.7	-	0.5
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	1.6	≤ 2.0	1.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	-	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	25.5	-	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	260	-	25
AMMONIA-NITROGEN °	mg/L NH ₃ -N	DISTILLATION NESSLERIZATION METHOD	4.80	≤ 0.5	0.5
CHLORIDE ^a	mg/L Cl ⁻	ARGENTOMETRIC METHOD (SM: PART 4500-Cl ⁻ B)	9.7	-	2.0
NITRATE-NITROGEN °	mg/L NO ₃ ⁻ -N	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	1.05	≤ 5.0	0.02
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริเวณเหนือจุดสูบน้ำ ของโครงการ ประมาณ 500 เมตร T23AZ949-0001		
METALS					
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	0.269	≤ 1.0	0.002
SODIUM ^c	mg/L Na	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	10.7	-	0.005
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

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

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

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

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

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

CLASS 3 : MEDIUM CLEAN FRESH SURFACE WATER RESOURCES USED FOR

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

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JANUARY 23, 2024

ANALYSIS REPORT

CUSTOMER NAME : THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : บริษัท บ้านไร่ผลิตไฟฟ้า จำกัด
SAMPLE TYPE : SURFACE WATER
SAMPLING DATE : DECEMBER 25, 2023
SAMPLING TIME : 10:30 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR SUKSAN BOONLEANG
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : DECEMBER 25, 2023
ANALYTICAL DATE : DECEMBER 25, 2023 - JANUARY 4, 2024
REPORT NO. : 2024-U003355
WORK NO. : 2023-010616
ANALYSIS NO. : T23AZ949-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริเวณจุดสูบน้ำ ของโครงการ T23AZ949-0002		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.3 (26°C)	5.0-9.0	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: PART 2550 B)	26	n ¹	-
FLOW RATE °	m ³ /s	CURRENT METER AND CALCULATION	0.479	-	-
DISSOLVED OXYGEN °	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM: PART 4500-O C)	4.6	-	0.5
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	1.4	≤ 2.0	1.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	-	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	23.5	-	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	278	-	25
AMMONIA-NITROGEN °	mg/L NH ₃ -N	DISTILLATION NESSLERIZATION METHOD	4.86	≤ 0.5	0.5
CHLORIDE ^a	mg/L Cl ⁻	ARGENTOMETRIC METHOD (SM: PART 4500-Cl ⁻ B)	14.1	-	2.0
NITRATE-NITROGEN °	mg/L NO ₃ -N	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ -E)	1.06	≤ 5.0	0.02
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริเวณจุดสูบน้ำ ของโครงการ T23AZ949-0002		
METALS					
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	0.403	≤ 1.0	0.002
SODIUM ^c	mg/L Na	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	12.5	-	0.005
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
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.

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

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

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JANUARY 23, 2024

ANALYSIS REPORT

CUSTOMER NAME	: THAI ROONG RUANG BIO-ENERGY COMPANY LIMITED	RECEIVED DATE	: DECEMBER 25, 2023
ADDRESS	: 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140	ANALYTICAL DATE	: DECEMBER 25, 2023 - JANUARY 4, 2024
CONTACT INFORMATION	: TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com	REPORT NO.	: 2024-U003360
SAMPLING SOURCE	: บริษัท บ้านไร่ผลิตไฟฟ้า จำกัด	WORK NO.	: 2023-010616
SAMPLE TYPE	: SURFACE WATER	ANALYSIS NO.	: T23AZ949-0003
SAMPLING DATE	: DECEMBER 24, 2023		
SAMPLING TIME	: 12:20 HOUR		
SAMPLING METHOD °	: GRAB		
SAMPLING BY °	: MR SUKSAN BOONLEANG		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริเวณท้ายจุดสูบน้ำ ของโครงการ ประมาณ 500 เมตร T23AZ949-0003		
pH °	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500-H ⁺ B AND 1060 B	7.6 (25°C)	5.0-9.0	-
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: PART 2550 B)	25	n ⁱ	-
FLOW RATE °	m ³ /s	CURRENT METER AND CALCULATION	0.087	-	-
DISSOLVED OXYGEN °	mg/L	AZIDE MODIFICATION METHOD AT SITE (SM: PART 4500-O C)	4.2	-	0.5
BIOCHEMICAL OXYGEN DEMAND °	mg/L	AZIDE MODIFICATION METHOD (SM: PART 5210 B AND PART 4500-O C)	1.7	≤ 2.0	1.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	-	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	19.4	-	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	332	-	25
AMMONIA-NITROGEN °	mg/L NH ₃ -N	DISTILLATION NESSLERIZATION METHOD	2.60	≤ 0.5	0.5
CHLORIDE ^a	mg/L Cl ⁻	ARGENTOMETRIC METHOD (SM: PART 4500-Cl ⁻ B)	42.7	-	2.0
NITRATE-NITROGEN °	mg/L NO ₃ ⁻ -N	CADMIUM REDUCTION METHOD (SM: PART 4500-NO ₃ ⁻ E)	1.32	≤ 5.0	0.02
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	REGULATORY STANDARD	DETECTION LIMIT
			บริเวณท้ายจุดสูบน้ำ ของโครงการ ประมาณ 500 เมตร T23AZ949-0003		
METALS					
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	0.326	≤ 1.0	0.002
SODIUM ^c	mg/L Na	NITRIC ACID-HYDROCHLORIC ACID DIGESTION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (SM: PART 3030 F AND PART 3120 B)	25.4	-	0.005
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

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

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

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

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

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

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

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JANUARY 23, 2024

คุณภาพอากาศในสถานประกอบการ

ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : พื้นที่ใกล้กองเก็บเชื้อเพลิง
SAMPLE TYPE : WORKPLACE
SAMPLING DATE : SEPTEMBER 6, 2023
SAMPLING TIME : 08:30-16:30 HOUR
SAMPLING BY : MISS CHAMANDA KIMAKOM
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : SEPTEMBER 7, 2023
ANALYTICAL DATE : SEPTEMBER 7-12, 2023
REPORT NO. : 2023-U077492
WORK NO. : 2023-006499
ANALYSIS NO. : T23AR541-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			พื้นที่ใกล้กองเก็บเชื้อเพลิง T23AR541-0001
TOTAL DUST	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	0.213
RESPIRABLE DUST	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.078
SAMPLE CONDITION			COMPLETE

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

OCTOBER 3, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : ระบบสายพานลำเลียงเชื้อเพลิง
SAMPLE TYPE : WORKPLACE
SAMPLING DATE : SEPTEMBER 6, 2023
SAMPLING TIME : 08:35-16:35 HOUR
SAMPLING BY : MISS CHAMANDA KIMAKOM
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : SEPTEMBER 7, 2023
ANALYTICAL DATE : SEPTEMBER 7-12, 2023
REPORT NO. : 2023-U077494
WORK NO. : 2023-006499
ANALYSIS NO. : T23AR541-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			ระบบสายพานลำเลียงเชื้อเพลิง T23AR541-0002
TOTAL DUST ^b	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	0.106
RESPIRABLE DUST ^a	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.032
SAMPLE CONDITION			COMPLETE

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

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

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

OCTOBER 3, 2023



ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
SAMPLING SOURCE : บริเวณเหมืองไอน้ำ
SAMPLE TYPE : WORKPLACE
SAMPLING DATE : SEPTEMBER 6, 2023
SAMPLING TIME : 08:40-16:40 HOUR
SAMPLING BY : MISS CHAMANDA KIMAKOM
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : SEPTEMBER 7, 2023
ANALYTICAL DATE : SEPTEMBER 7-12, 2023
REPORT NO. : 2023-U077502
WORK NO. : 2023-006499
ANALYSIS NO. : T23AR541-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			บริเวณเหมืองไอน้ำ T23AR541-0003
TOTAL DUST	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0500)	0.379
RESPIRABLE DUST	mg/m ³	GRAVIMETRIC METHOD (NIOSH METHOD 0600)	0.087
SAMPLE CONDITION			COMPLETE

REMARK

RESULT : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

OCTOBER 3, 2023



ระดับเสียงในสถานประกอบการ

ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
MEASURING PLACE : BANRAI ELECTTICITY GENERATING COMPANY LIMITED
MEASURING TYPE : WORKPLACE (NOISE) **RECEIVED DATE** : SEPTEMBER 6, 2023
MEASURING DATE : SEPTEMBER 6, 2023 **ANALYTICAL DATE** : SEPTEMBER 6, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U075279
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2023-006499
MEASURED BY : MISS CHAMANDA KIMAKOM **ANALYSIS NO.** : T23AR543-0001 - T23AR543-0002

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L _{Aeq} 8 hours	L _{Amax} 8 hours
T23AR543-0001	เครื่องกำเนิดไฟฟ้า 9.9 MW	08:45-16:45	83.1	110
T23AR543-0002	เครื่องสับเชื้อเพลิง	08:50-16:50	61.5	83.3

Nattawat.

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

OCTOBER 4, 2023



ความร้อนในสถานประกอบการ

ANALYSIS REPORT

CUSTOMER NAME : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
ADDRESS : 111 MOO 12 THAP LUANG BAN RAI UTHAI THANI 61140
CONTACT INFORMATION : TEL : 09 5992 6395 e-mail : Safetytherasak@hotmail.com
MEASURING PLACE : BANRAI ELECTRICITY GENERATING COMPANY LIMITED
MEASURING TYPE : WORKPLACE (HEAT STRESS) **RECEIVED DATE** : SEPTEMBER 6, 2023
MEASURING DATE : SEPTEMBER 6, 2023 **ANALYTICAL DATE** : SEPTEMBER 6, 2023
MEASURING TIME : * **REPORT NO.** : 2023-U075278
MEASURING EQUIPMENT : WET BULB GLOBE TEMPERATURE **WORK NO.** : 2023-006499
MEASURED BY : MISS CHAMANDA KIMAKOM **ANALYSIS NO.** : T23AR542-0001 - T23AR542-0002

ANALYSIS NO.	MEASURING SITE	DURATION TIME*	RESULT (DEGREE CELSIUS)				
			NWB	DB	GT	WBGT	WBGT AVG
T23AR542-0001	บริเวณหม้อไอน้ำ (พื้นที่หน้าเตา 60) (คุณพิเชษฐ เกษมสุข)	10:00-12:00 HOUR	28.3	34.6	35.6	30.5	30.5
T23AR542-0002	บริเวณเครื่องกำเนิดไฟฟ้า (เทอร์ไบน์ GEN 9.9 MW) (คุณเอกชัย ครุฑคม)	10:10-12:10 HOUR	29.0	35.7	36.1	31.1	31.1

Nattawat

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LABORATORY SUPERVISOR

OCTOBER 4, 2023

