

ภาคผนวก

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รายงานผลการวิเคราะห์

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## คุณภาพอากาศในบรรยากาศ

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## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : BAN AO UDOM  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29 - MAY 7, 2025  
**ISSUE DATE** : MAY 9, 2025  
**REPORT NO.** : 2025-U040465  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ092-0008 - T25AJ092-0010

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			BAN AO UDOM		
			* T25AJ092-0008	** T25AJ092-0009	*** T25AJ092-0010
TOTAL SUSPENDED PARTICULATE MATTER <sup>a</sup>	mg/m <sup>3</sup>	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.	0.047	0.052	0.061
PARTICULATE MATTER as PM <sub>10</sub> (≤ 10 μm) <sup>a</sup>	mg/m <sup>3</sup>	US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM <sub>10</sub> IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.	0.026	0.033	0.015
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

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

### REMARK

TSP, PM<sub>10</sub> : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
\* : SAMPLING FROM 09:30 HOUR ON APRIL 19, 2025 TO 09:30 HOUR ON APRIL 20, 2025.  
\*\* : SAMPLING FROM 09:30 HOUR ON APRIL 20, 2025 TO 09:30 HOUR ON APRIL 21, 2025.  
\*\*\* : SAMPLING FROM 09:30 HOUR ON APRIL 21, 2025 TO 09:30 HOUR ON APRIL 22, 2025.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR





## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : BAN AO UDOM  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29 - MAY 7, 2025  
**ISSUE DATE** : MAY 9, 2025  
**REPORT NO.** : 2025-U040466  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ092-0011 - T25AJ092-0014

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			BAN AO UDOM			
			* T25AJ092-0011	** T25AJ092-0012	*** T25AJ092-0013	**** T25AJ092-0014
TOTAL SUSPENDED PARTICULATE MATTER <sup>a</sup>	mg/m <sup>3</sup>	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.	0.031	0.044	0.041	0.034
PARTICULATE MATTER as PM10 (≤ 10 µm) <sup>a</sup>	mg/m <sup>3</sup>	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.	0.015	0.021	0.031	0.023
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE	COMPLETE

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

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
\* : SAMPLING FROM 09:30 HOUR ON APRIL 22, 2025 TO 09:30 HOUR ON APRIL 23, 2025.  
\*\* : SAMPLING FROM 09:30 HOUR ON APRIL 23, 2025 TO 09:30 HOUR ON APRIL 24, 2025.  
\*\*\* : SAMPLING FROM 09:30 HOUR ON APRIL 24, 2025 TO 09:30 HOUR ON APRIL 25, 2025.  
\*\*\*\* : SAMPLING FROM 09:30 HOUR ON APRIL 25, 2025 TO 09:30 HOUR ON APRIL 26, 2025.

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LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : LAM CHABANG PORT'S GATE  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR. SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29 - MAY 7, 2025  
**ISSUE DATE** : MAY 9, 2025  
**REPORT NO.** : 2025-U040467  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ092-0015 - T25AJ092-0017

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			LAM CHABANG PORT'S GATE		
			* T25AJ092-0015	** T25AJ092-0016	*** T25AJ092-0017
TOTAL SUSPENDED PARTICULATE MATTER <sup>a</sup>	mg/m <sup>3</sup>	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.	0.035	0.061	0.060
PARTICULATE MATTER as PM10 (≤ 10 μm) <sup>a</sup>	mg/m <sup>3</sup>	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.	0.024	0.039	0.041
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

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

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
\* : SAMPLING FROM 08:30 HOUR ON APRIL 19, 2025 TO 08:30 HOUR ON APRIL 20, 2025.  
\*\* : SAMPLING FROM 08:30 HOUR ON APRIL 20, 2025 TO 08:30 HOUR ON APRIL 21, 2025.  
\*\*\* : SAMPLING FROM 08:30 HOUR ON APRIL 21, 2025 TO 08:30 HOUR ON APRIL 22, 2025.

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## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : LAM CHABANG PORT'S GATE  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29 - MAY 7, 2025  
**ISSUE DATE** : MAY 9, 2025  
**REPORT NO.** : 2025-U040468  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ092-0018 - T25AJ092-0021

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			LAM CHABANG PORT'S GATE			
			* T25AJ092-0018	** T25AJ092-0019	*** T25AJ092-0020	**** T25AJ092-0021
TOTAL SUSPENDED PARTICULATE MATTER <sup>a</sup>	mg/m <sup>3</sup>	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.	0.053	0.035	0.047	0.069
PARTICULATE MATTER as PM10 (≤ 10 µm) <sup>a</sup>	mg/m <sup>3</sup>	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.	0.041	0.023	0.035	0.053
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE	COMPLETE

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

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
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\*\* : SAMPLING FROM 08:30 HOUR ON APRIL 23, 2025 TO 08:30 HOUR ON APRIL 24, 2025.  
\*\*\* : SAMPLING FROM 08:30 HOUR ON APRIL 24, 2025 TO 08:30 HOUR ON APRIL 25, 2025.  
\*\*\*\* : SAMPLING FROM 08:30 HOUR ON APRIL 25, 2025 TO 08:30 HOUR ON APRIL 26, 2025.

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## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : K.U.STATION  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29 - MAY 7, 2025  
**ISSUE DATE** : MAY 9, 2025  
**REPORT NO.** : 2025-U040470  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ092-0022 - T25AJ092-0024

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			K.U.STATION		
			* T25AJ092-0022	** T25AJ092-0023	*** T25AJ092-0024
TOTAL SUSPENDED PARTICULATE MATTER <sup>a</sup>	mg/m <sup>3</sup>	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.	0.057	0.051	0.050
PARTICULATE MATTER as PM10 (≤ 10 μm) <sup>a</sup>	mg/m <sup>3</sup>	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.	0.045	0.025	0.040
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

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

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
\* : SAMPLING FROM 10:00 HOUR ON APRIL 19, 2025 TO 10:00 HOUR ON APRIL 20, 2025.  
\*\* : SAMPLING FROM 10:00 HOUR ON APRIL 20, 2025 TO 10:00 HOUR ON APRIL 21, 2025.  
\*\*\* : SAMPLING FROM 10:00 HOUR ON APRIL 21, 2025 TO 10:00 HOUR ON APRIL 22, 2025.

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## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : K.U.STATION  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29 - MAY 7, 2025  
**ISSUE DATE** : MAY 9, 2025  
**REPORT NO.** : 2025-U040471  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ092-0025 - T25AJ092-0028

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			K.U.STATION			
			*	**	***	****
			T25AJ092-0025	T25AJ092-0026	T25AJ092-0027	T25AJ092-0028
TOTAL SUSPENDED PARTICULATE MATTER <sup>a</sup>	mg/m <sup>3</sup>	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.	0.054	0.032	0.066	0.031
PARTICULATE MATTER as PM <sub>10</sub> (≤ 10 μm) <sup>a</sup>	mg/m <sup>3</sup>	US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM <sub>10</sub> IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.	0.043	0.019	0.044	0.021
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE	COMPLETE

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

### REMARK

TSP, PM<sub>10</sub> : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
\* : SAMPLING FROM 10:00 HOUR ON APRIL 22, 2025 TO 10:00 HOUR ON APRIL 23, 2025.  
\*\* : SAMPLING FROM 10:00 HOUR ON APRIL 23, 2025 TO 10:00 HOUR ON APRIL 24, 2025.  
\*\*\* : SAMPLING FROM 10:00 HOUR ON APRIL 24, 2025 TO 10:00 HOUR ON APRIL 25, 2025.  
\*\*\*\* : SAMPLING FROM 10:00 HOUR ON APRIL 25, 2025 TO 10:00 HOUR ON APRIL 26, 2025.

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LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : REFINERY GATE  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29 - MAY 7, 2025  
**ISSUE DATE** : MAY 9, 2025  
**REPORT NO.** : 2025-U040462  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ092-0001 - T25AJ092-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			REFINERY GATE		
			* T25AJ092-0001	** T25AJ092-0002	*** T25AJ092-0003
TOTAL SUSPENDED PARTICULATE MATTER <sup>a</sup>	mg/m <sup>3</sup>	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.	0.078	0.050	0.057
PARTICULATE MATTER as PM <sub>10</sub> (≤ 10 μm) <sup>a</sup>	mg/m <sup>3</sup>	US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER I-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM <sub>10</sub> IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.	0.055	0.036	0.043
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

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

**REMARK**

TSP, PM<sub>10</sub> : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
\* : SAMPLING FROM 09:00 HOUR ON APRIL 19, 2025 TO 09:00 HOUR ON APRIL 20, 2025.  
\*\* : SAMPLING FROM 09:00 HOUR ON APRIL 20, 2025 TO 09:00 HOUR ON APRIL 21, 2025.  
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## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : REFINERY GATE  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \* \*\* \*\*\* \*\*\*\*  
**SAMPLING TIME** : \* \*\* \*\*\* \*\*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29 - MAY 7, 2025  
**ISSUE DATE** : MAY 9, 2025  
**REPORT NO.** : 2025-U040464  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ092-0004 - T25AJ092-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			REFINERY GATE			
			*	**	***	****
			T25AJ092-0004	T25AJ092-0005	T25AJ092-0006	T25AJ092-0007
TOTAL SUSPENDED PARTICULATE MATTER <sup>a</sup>	mg/m <sup>3</sup>	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.	0.063	0.035	0.047	0.078
PARTICULATE MATTER as PM10 (≤ 10 μm) <sup>a</sup>	mg/m <sup>3</sup>	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.	0.038	0.024	0.023	0.059
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE	COMPLETE

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

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
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\*\* : SAMPLING FROM 09:00 HOUR ON APRIL 23, 2025 TO 09:00 HOUR ON APRIL 24, 2025.  
\*\*\* : SAMPLING FROM 09:00 HOUR ON APRIL 24, 2025 TO 09:00 HOUR ON APRIL 25, 2025.  
\*\*\*\* : SAMPLING FROM 09:00 HOUR ON APRIL 25, 2025 TO 09:00 HOUR ON APRIL 26, 2025.

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19-26, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 19-26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 6, 2025
<b>MEASURING PLACE</b>	: BAN AO UDOM	<b>REPORT NO.</b>	: 2025-U038637
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2019-002022
<b>MEASURING DATE</b>	: APRIL 19-26, 2025	<b>ANALYSIS NO.</b>	: T25AJ092-0008 - T25AJ092-0014
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: CHEMILUMINESCENCE		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	BAN AO UDOM		
	APRIL 19-20, 2025 T25AJ092-0008	APRIL 20-21, 2025 T25AJ092-0009	APRIL 21-22, 2025 T25AJ092-0010
07:00-08:00 HOUR	0.0131	0.0144	0.0136
08:00-09:00 HOUR	0.0146	0.0134	0.0125
09:00-10:00 HOUR	0.0095	0.0097	0.0130
10:00-11:00 HOUR	0.0074	0.0103	0.0123
11:00-12:00 HOUR	0.0054	0.0089	0.0103
12:00-13:00 HOUR	0.0064	0.0081	0.0091
13:00-14:00 HOUR	0.0092	0.0114	0.0117
14:00-15:00 HOUR	0.0095	0.0117	0.0096
15:00-16:00 HOUR	0.0091	0.0143	0.0122
16:00-17:00 HOUR	0.0116	0.0127	0.0113
17:00-18:00 HOUR	0.0129	0.0120	0.0130
18:00-19:00 HOUR	0.0122	0.0121	0.0103
19:00-20:00 HOUR	0.0129	0.0126	0.0122
20:00-21:00 HOUR	0.0136	0.0117	0.0121
21:00-22:00 HOUR	0.0119	0.0150	0.0112
22:00-23:00 HOUR	0.0172	0.0115	0.0105
23:00-00:00 HOUR	0.0146	0.0152	0.0108
00:00-01:00 HOUR	0.0149	0.0148	0.0091
01:00-02:00 HOUR	0.0145	0.0176	0.0122
02:00-03:00 HOUR	0.0128	0.0149	0.0095
03:00-04:00 HOUR	0.0104	0.0121	0.0112
04:00-05:00 HOUR	0.0099	0.0143	0.0097
05:00-06:00 HOUR	0.0076	0.0123	0.0120
06:00-07:00 HOUR	0.0135	0.0115	0.0121





TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	BAN AO UDOM			
	APRIL 22-23, 2025 T25AJ092-0011	APRIL 23-24, 2025 T25AJ092-0012	APRIL 24-25, 2025 T25AJ092-0013	APRIL 25-26, 2025 T25AJ092-0014
07:00-08:00 HOUR	0.0145	0.0137	0.0154	0.0133
08:00-09:00 HOUR	0.0149	0.0143	0.0128	0.0154
09:00-10:00 HOUR	0.0122	0.0098	0.0124	0.0090
10:00-11:00 HOUR	0.0106	0.0078	0.0111	0.0104
11:00-12:00 HOUR	0.0085	0.0068	0.0084	0.0073
12:00-13:00 HOUR	0.0083	0.0082	0.0083	0.0066
13:00-14:00 HOUR	0.0111	0.0104	0.0109	0.0101
14:00-15:00 HOUR	0.0092	0.0082	0.0091	0.0084
15:00-16:00 HOUR	0.0131	0.0080	0.0126	0.0089
16:00-17:00 HOUR	0.0133	0.0095	0.0121	0.0101
17:00-18:00 HOUR	0.0137	0.0130	0.0106	0.0129
18:00-19:00 HOUR	0.0143	0.0136	0.0107	0.0133
19:00-20:00 HOUR	0.0120	0.0114	0.0131	0.0118
20:00-21:00 HOUR	0.0136	0.0139	0.0114	0.0139
21:00-22:00 HOUR	0.0136	0.0108	0.0107	0.0130
22:00-23:00 HOUR	0.0156	0.0118	0.0127	0.0126
23:00-00:00 HOUR	0.0154	0.0109	0.0136	0.0154
00:00-01:00 HOUR	0.0146	0.0118	0.0129	0.0153
01:00-02:00 HOUR	0.0114	0.0091	0.0118	0.0163
02:00-03:00 HOUR	0.0120	0.0107	0.0127	0.0132
03:00-04:00 HOUR	0.0139	0.0106	0.0124	0.0145
04:00-05:00 HOUR	0.0129	0.0097	0.0118	0.0117
05:00-06:00 HOUR	0.0117	0.0131	0.0119	0.0117
06:00-07:00 HOUR	0.0125	0.0121	0.0119	0.0112

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**MEASURING PLACE** : LAM CHABANG PORT'S GATE  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : APRIL 19-26, 2025  
**MEASURING DATE** : APRIL 19-26, 2025 **ANALYTICAL DATE** : APRIL 19-26, 2025  
**MEASURING TIME** : \* **ISSUE DATE** : MAY 6, 2025  
**MEASURING METHOD** : CHEMILUMINESCENCE **REPORT NO.** : 2025-U038639  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ092-0015 - T25AJ092-0021

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	LAM CHABANG PORT'S GATE		
	APRIL 19-20, 2025 T25AJ092-0015	APRIL 20-21, 2025 T25AJ092-0016	APRIL 21-22, 2025 T25AJ092-0017
07:00-08:00 HOUR	0.0148	0.0146	0.0160
08:00-09:00 HOUR	0.0147	0.0142	0.0153
09:00-10:00 HOUR	0.0114	0.0100	0.0100
10:00-11:00 HOUR	0.0139	0.0087	0.0120
11:00-12:00 HOUR	0.0095	0.0070	0.0104
12:00-13:00 HOUR	0.0102	0.0107	0.0108
13:00-14:00 HOUR	0.0130	0.0125	0.0143
14:00-15:00 HOUR	0.0087	0.0117	0.0096
15:00-16:00 HOUR	0.0142	0.0165	0.0140
16:00-17:00 HOUR	0.0121	0.0164	0.0116
17:00-18:00 HOUR	0.0144	0.0178	0.0117
18:00-19:00 HOUR	0.0147	0.0149	0.0120
19:00-20:00 HOUR	0.0147	0.0182	0.0127
20:00-21:00 HOUR	0.0154	0.0147	0.0149
21:00-22:00 HOUR	0.0149	0.0106	0.0148
22:00-23:00 HOUR	0.0154	0.0150	0.0126
23:00-00:00 HOUR	0.0109	0.0119	0.0127
00:00-01:00 HOUR	0.0114	0.0132	0.0157
01:00-02:00 HOUR	0.0112	0.0118	0.0136
02:00-03:00 HOUR	0.0138	0.0134	0.0145
03:00-04:00 HOUR	0.0148	0.0141	0.0128
04:00-05:00 HOUR	0.0146	0.0116	0.0157
05:00-06:00 HOUR	0.0146	0.0092	0.0114
06:00-07:00 HOUR	0.0137	0.0145	0.0134



TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	LAM CHABANG PORT'S GATE			
	APRIL 22-23, 2025 T25AJ092-0018	APRIL 23-24, 2025 T25AJ092-0019	APRIL 24-25, 2025 T25AJ092-0020	APRIL 25-26, 2025 T25AJ092-0021
07:00-08:00 HOUR	0.0168	0.0162	0.0155	0.0137
08:00-09:00 HOUR	0.0149	0.0149	0.0161	0.0156
09:00-10:00 HOUR	0.0083	0.0143	0.0136	0.0145
10:00-11:00 HOUR	0.0118	0.0134	0.0096	0.0104
11:00-12:00 HOUR	0.0110	0.0114	0.0099	0.0089
12:00-13:00 HOUR	0.0100	0.0112	0.0078	0.0092
13:00-14:00 HOUR	0.0124	0.0146	0.0137	0.0135
14:00-15:00 HOUR	0.0110	0.0120	0.0115	0.0104
15:00-16:00 HOUR	0.0137	0.0169	0.0121	0.0153
16:00-17:00 HOUR	0.0151	0.0168	0.0109	0.0141
17:00-18:00 HOUR	0.0164	0.0140	0.0136	0.0139
18:00-19:00 HOUR	0.0130	0.0155	0.0143	0.0147
19:00-20:00 HOUR	0.0146	0.0163	0.0132	0.0134
20:00-21:00 HOUR	0.0152	0.0145	0.0147	0.0137
21:00-22:00 HOUR	0.0151	0.0195	0.0124	0.0138
22:00-23:00 HOUR	0.0168	0.0140	0.0122	0.0129
23:00-00:00 HOUR	0.0139	0.0179	0.0123	0.0147
00:00-01:00 HOUR	0.0152	0.0166	0.0114	0.0120
01:00-02:00 HOUR	0.0132	0.0158	0.0136	0.0148
02:00-03:00 HOUR	0.0142	0.0151	0.0117	0.0133
03:00-04:00 HOUR	0.0120	0.0137	0.0134	0.0128
04:00-05:00 HOUR	0.0160	0.0155	0.0126	0.0140
05:00-06:00 HOUR	0.0134	0.0165	0.0133	0.0147
06:00-07:00 HOUR	0.0147	0.0153	0.0141	0.0150

*Sila Banjongjairuk*

(MR. SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19-26, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 19-26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 6, 2025
<b>MEASURING PLACE</b>	: K.U.STATION	<b>REPORT NO.</b>	: 2025-U038641
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2019-002022
<b>MEASURING DATE</b>	: APRIL 19-26, 2025	<b>ANALYSIS NO.</b>	: T25AJ092-0022 - T25AJ092-0028
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: CHEMILUMINESCENCE		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	K.U.STATION		
	APRIL 19-20, 2025 T25AJ092-0022	APRIL 20-21, 2025 T25AJ092-0023	APRIL 21-22, 2025 T25AJ092-0024
07:00-08:00 HOUR	0.0121	0.0128	0.0138
08:00-09:00 HOUR	0.0120	0.0112	0.0117
09:00-10:00 HOUR	0.0115	0.0082	0.0107
10:00-11:00 HOUR	0.0110	0.0077	0.0118
11:00-12:00 HOUR	0.0080	0.0072	0.0080
12:00-13:00 HOUR	0.0090	0.0070	0.0087
13:00-14:00 HOUR	0.0097	0.0079	0.0098
14:00-15:00 HOUR	0.0063	0.0061	0.0067
15:00-16:00 HOUR	0.0090	0.0096	0.0081
16:00-17:00 HOUR	0.0086	0.0091	0.0084
17:00-18:00 HOUR	0.0101	0.0100	0.0120
18:00-19:00 HOUR	0.0095	0.0105	0.0091
19:00-20:00 HOUR	0.0085	0.0107	0.0087
20:00-21:00 HOUR	0.0122	0.0113	0.0118
21:00-22:00 HOUR	0.0106	0.0087	0.0106
22:00-23:00 HOUR	0.0139	0.0104	0.0126
23:00-00:00 HOUR	0.0119	0.0101	0.0092
00:00-01:00 HOUR	0.0115	0.0105	0.0096
01:00-02:00 HOUR	0.0099	0.0102	0.0079
02:00-03:00 HOUR	0.0094	0.0111	0.0084
03:00-04:00 HOUR	0.0074	0.0111	0.0079
04:00-05:00 HOUR	0.0077	0.0137	0.0103
05:00-06:00 HOUR	0.0058	0.0132	0.0096
06:00-07:00 HOUR	0.0110	0.0111	0.0120



TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	K.U.STATION			
	APRIL 22-23, 2025 T25AJ092-0025	APRIL 23-24, 2025 T25AJ092-0026	APRIL 24-25, 2025 T25AJ092-0027	APRIL 25-26, 2025 T25AJ092-0028
07:00-08:00 HOUR	0.0126	0.0121	0.0123	0.0111
08:00-09:00 HOUR	0.0125	0.0119	0.0125	0.0125
09:00-10:00 HOUR	0.0126	0.0095	0.0125	0.0085
10:00-11:00 HOUR	0.0096	0.0078	0.0118	0.0072
11:00-12:00 HOUR	0.0078	0.0068	0.0092	0.0050
12:00-13:00 HOUR	0.0074	0.0078	0.0072	0.0065
13:00-14:00 HOUR	0.0085	0.0086	0.0108	0.0089
14:00-15:00 HOUR	0.0080	0.0054	0.0078	0.0102
15:00-16:00 HOUR	0.0091	0.0079	0.0122	0.0093
16:00-17:00 HOUR	0.0095	0.0086	0.0110	0.0120
17:00-18:00 HOUR	0.0117	0.0107	0.0126	0.0105
18:00-19:00 HOUR	0.0113	0.0089	0.0123	0.0110
19:00-20:00 HOUR	0.0101	0.0108	0.0114	0.0129
20:00-21:00 HOUR	0.0119	0.0118	0.0099	0.0112
21:00-22:00 HOUR	0.0119	0.0090	0.0114	0.0104
22:00-23:00 HOUR	0.0105	0.0091	0.0088	0.0114
23:00-00:00 HOUR	0.0107	0.0091	0.0115	0.0095
00:00-01:00 HOUR	0.0104	0.0092	0.0118	0.0114
01:00-02:00 HOUR	0.0099	0.0094	0.0122	0.0096
02:00-03:00 HOUR	0.0119	0.0091	0.0110	0.0118
03:00-04:00 HOUR	0.0109	0.0096	0.0107	0.0146
04:00-05:00 HOUR	0.0114	0.0099	0.0111	0.0115
05:00-06:00 HOUR	0.0098	0.0105	0.0118	0.0131
06:00-07:00 HOUR	0.0113	0.0116	0.0110	0.0101

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**MEASURING PLACE** : REFINERY GATE  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : APRIL 19-26, 2025  
**MEASURING DATE** : APRIL 19-26, 2025 **ANALYTICAL DATE** : APRIL 19-26, 2025  
**MEASURING TIME** : \* **ISSUE DATE** : MAY 6, 2025  
**MEASURING METHOD** : CHEMILUMINESCENCE **REPORT NO.** : 2025-U038635  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ092-0001 - T25AJ092-0007

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	REFINERY GATE		
	APRIL 19-20, 2025 T25AJ092-0001	APRIL 20-21, 2025 T25AJ092-0002	APRIL 21-22, 2025 T25AJ092-0003
07:00-08:00 HOUR	0.0203	0.0190	0.0198
08:00-09:00 HOUR	0.0178	0.0184	0.0177
09:00-10:00 HOUR	0.0144	0.0155	0.0166
10:00-11:00 HOUR	0.0156	0.0141	0.0145
11:00-12:00 HOUR	0.0133	0.0114	0.0138
12:00-13:00 HOUR	0.0139	0.0108	0.0125
13:00-14:00 HOUR	0.0155	0.0150	0.0160
14:00-15:00 HOUR	0.0128	0.0096	0.0145
15:00-16:00 HOUR	0.0183	0.0130	0.0163
16:00-17:00 HOUR	0.0182	0.0127	0.0179
17:00-18:00 HOUR	0.0205	0.0142	0.0176
18:00-19:00 HOUR	0.0204	0.0159	0.0174
19:00-20:00 HOUR	0.0178	0.0155	0.0179
20:00-21:00 HOUR	0.0189	0.0179	0.0176
21:00-22:00 HOUR	0.0171	0.0198	0.0186
22:00-23:00 HOUR	0.0184	0.0204	0.0172
23:00-00:00 HOUR	0.0174	0.0165	0.0191
00:00-01:00 HOUR	0.0185	0.0158	0.0152
01:00-02:00 HOUR	0.0158	0.0188	0.0171
02:00-03:00 HOUR	0.0171	0.0163	0.0173
03:00-04:00 HOUR	0.0144	0.0186	0.0161
04:00-05:00 HOUR	0.0167	0.0170	0.0165
05:00-06:00 HOUR	0.0119	0.0162	0.0131
06:00-07:00 HOUR	0.0178	0.0177	0.0164





TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	REFINERY GATE			
	APRIL 22-23, 2025 T25AJ092-0004	APRIL 23-24, 2025 T25AJ092-0005	APRIL 24-25, 2025 T25AJ092-0006	APRIL 25-26, 2025 T25AJ092-0007
07:00-08:00 HOUR	0.0212	0.0178	0.0215	0.0198
08:00-09:00 HOUR	0.0194	0.0178	0.0205	0.0211
09:00-10:00 HOUR	0.0187	0.0124	0.0163	0.0157
10:00-11:00 HOUR	0.0189	0.0113	0.0149	0.0160
11:00-12:00 HOUR	0.0142	0.0109	0.0129	0.0123
12:00-13:00 HOUR	0.0138	0.0096	0.0100	0.0153
13:00-14:00 HOUR	0.0169	0.0143	0.0150	0.0162
14:00-15:00 HOUR	0.0157	0.0134	0.0116	0.0139
15:00-16:00 HOUR	0.0161	0.0153	0.0136	0.0173
16:00-17:00 HOUR	0.0154	0.0160	0.0129	0.0203
17:00-18:00 HOUR	0.0192	0.0152	0.0183	0.0174
18:00-19:00 HOUR	0.0202	0.0166	0.0156	0.0208
19:00-20:00 HOUR	0.0164	0.0180	0.0180	0.0185
20:00-21:00 HOUR	0.0196	0.0179	0.0180	0.0179
21:00-22:00 HOUR	0.0168	0.0181	0.0187	0.0191
22:00-23:00 HOUR	0.0177	0.0186	0.0215	0.0202
23:00-00:00 HOUR	0.0173	0.0199	0.0217	0.0224
00:00-01:00 HOUR	0.0157	0.0166	0.0192	0.0208
01:00-02:00 HOUR	0.0154	0.0145	0.0202	0.0208
02:00-03:00 HOUR	0.0143	0.0159	0.0178	0.0178
03:00-04:00 HOUR	0.0136	0.0127	0.0195	0.0204
04:00-05:00 HOUR	0.0152	0.0138	0.0187	0.0174
05:00-06:00 HOUR	0.0126	0.0114	0.0197	0.0173
06:00-07:00 HOUR	0.0174	0.0190	0.0168	0.0192

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19-26, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 19-26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 6, 2025
<b>MEASURING PLACE</b>	: BAN AO UDOM	<b>REPORT NO.</b>	: 2025-U038644
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2019-002022
<b>MEASURING DATE</b>	: APRIL 19-26, 2025	<b>ANALYSIS NO.</b>	: T25AJ092-0008 - T25AJ092-0014
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: UV FLUORESCENCE		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	BAN AO UDOM		
	APRIL 19-20, 2025 T25AJ092-0008	APRIL 20-21, 2025 T25AJ092-0009	APRIL 21-22, 2025 T25AJ092-0010
07:00-08:00 HOUR	0.0030	0.0030	0.0027
08:00-09:00 HOUR	0.0027	0.0028	0.0025
09:00-10:00 HOUR	0.0024	0.0023	0.0024
10:00-11:00 HOUR	0.0027	0.0026	0.0023
11:00-12:00 HOUR	0.0028	0.0027	0.0025
12:00-13:00 HOUR	0.0031	0.0030	0.0026
13:00-14:00 HOUR	0.0032	0.0030	0.0029
14:00-15:00 HOUR	0.0032	0.0030	0.0029
15:00-16:00 HOUR	0.0035	0.0034	0.0030
16:00-17:00 HOUR	0.0037	0.0034	0.0029
17:00-18:00 HOUR	0.0036	0.0034	0.0030
18:00-19:00 HOUR	0.0032	0.0028	0.0032
19:00-20:00 HOUR	0.0031	0.0030	0.0030
20:00-21:00 HOUR	0.0031	0.0030	0.0030
21:00-22:00 HOUR	0.0029	0.0031	0.0028
22:00-23:00 HOUR	0.0027	0.0031	0.0030
23:00-00:00 HOUR	0.0030	0.0035	0.0028
00:00-01:00 HOUR	0.0033	0.0039	0.0031
01:00-02:00 HOUR	0.0034	0.0039	0.0030
02:00-03:00 HOUR	0.0031	0.0038	0.0031
03:00-04:00 HOUR	0.0028	0.0037	0.0031
04:00-05:00 HOUR	0.0030	0.0038	0.0033
05:00-06:00 HOUR	0.0033	0.0036	0.0034
06:00-07:00 HOUR	0.0034	0.0030	0.0032
AVERAGE 24 HOUR	0.0031	0.0032	0.0029





TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	BAN AO UDOM			
	APRIL 22-23, 2025 T25AJ092-0011	APRIL 23-24, 2025 T25AJ092-0012	APRIL 24-25, 2025 T25AJ092-0013	APRIL 25-26, 2025 T25AJ092-0014
07:00-08:00 HOUR	0.0031	0.0026	0.0028	0.0032
08:00-09:00 HOUR	0.0028	0.0022	0.0024	0.0028
09:00-10:00 HOUR	0.0026	0.0023	0.0023	0.0027
10:00-11:00 HOUR	0.0025	0.0027	0.0022	0.0027
11:00-12:00 HOUR	0.0028	0.0028	0.0025	0.0025
12:00-13:00 HOUR	0.0033	0.0030	0.0028	0.0026
13:00-14:00 HOUR	0.0036	0.0031	0.0030	0.0026
14:00-15:00 HOUR	0.0038	0.0035	0.0031	0.0028
15:00-16:00 HOUR	0.0038	0.0039	0.0033	0.0029
16:00-17:00 HOUR	0.0038	0.0043	0.0030	0.0029
17:00-18:00 HOUR	0.0039	0.0042	0.0031	0.0029
18:00-19:00 HOUR	0.0038	0.0040	0.0030	0.0031
19:00-20:00 HOUR	0.0040	0.0034	0.0031	0.0034
20:00-21:00 HOUR	0.0036	0.0034	0.0028	0.0035
21:00-22:00 HOUR	0.0037	0.0031	0.0026	0.0037
22:00-23:00 HOUR	0.0032	0.0033	0.0026	0.0037
23:00-00:00 HOUR	0.0030	0.0030	0.0027	0.0037
00:00-01:00 HOUR	0.0031	0.0030	0.0027	0.0039
01:00-02:00 HOUR	0.0031	0.0028	0.0031	0.0040
02:00-03:00 HOUR	0.0033	0.0029	0.0030	0.0042
03:00-04:00 HOUR	0.0033	0.0030	0.0033	0.0038
04:00-05:00 HOUR	0.0035	0.0033	0.0031	0.0037
05:00-06:00 HOUR	0.0035	0.0033	0.0035	0.0035
06:00-07:00 HOUR	0.0031	0.0031	0.0032	0.0036
AVERAGE 24 HOUR	0.0033	0.0032	0.0029	0.0033

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19-26, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 19-26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 6, 2025
<b>MEASURING PLACE</b>	: LAM CHABANG PORT'S GATE	<b>REPORT NO.</b>	: 2025-U038646
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2019-002022
<b>MEASURING DATE</b>	: APRIL 19-26, 2025	<b>ANALYSIS NO.</b>	: T25AJ092-0015 - T25AJ092-0021
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: UV FLUORESCENCE		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	LAM CHABANG PORT'S GATE		
	APRIL 19-20, 2025 T25AJ092-0015	APRIL 20-21, 2025 T25AJ092-0016	APRIL 21-22, 2025 T25AJ092-0017
07:00-08:00 HOUR	0.0039	0.0035	0.0036
08:00-09:00 HOUR	0.0042	0.0033	0.0032
09:00-10:00 HOUR	0.0044	0.0032	0.0031
10:00-11:00 HOUR	0.0045	0.0031	0.0034
11:00-12:00 HOUR	0.0049	0.0033	0.0033
12:00-13:00 HOUR	0.0046	0.0035	0.0035
13:00-14:00 HOUR	0.0042	0.0036	0.0038
14:00-15:00 HOUR	0.0045	0.0036	0.0046
15:00-16:00 HOUR	0.0048	0.0035	0.0052
16:00-17:00 HOUR	0.0050	0.0035	0.0052
17:00-18:00 HOUR	0.0047	0.0036	0.0051
18:00-19:00 HOUR	0.0048	0.0040	0.0047
19:00-20:00 HOUR	0.0046	0.0046	0.0047
20:00-21:00 HOUR	0.0044	0.0049	0.0044
21:00-22:00 HOUR	0.0041	0.0048	0.0041
22:00-23:00 HOUR	0.0036	0.0046	0.0035
23:00-00:00 HOUR	0.0037	0.0043	0.0031
00:00-01:00 HOUR	0.0032	0.0046	0.0030
01:00-02:00 HOUR	0.0031	0.0047	0.0031
02:00-03:00 HOUR	0.0035	0.0046	0.0031
03:00-04:00 HOUR	0.0036	0.0046	0.0032
04:00-05:00 HOUR	0.0040	0.0039	0.0035
05:00-06:00 HOUR	0.0039	0.0042	0.0040
06:00-07:00 HOUR	0.0038	0.0037	0.0038
AVERAGE 24 HOUR	0.0042	0.0040	0.0038



TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	LAM CHABANG PORT'S GATE			
	APRIL 22-23, 2025 T25AJ092-0018	APRIL 23-24, 2025 T25AJ092-0019	APRIL 24-25, 2025 T25AJ092-0020	APRIL 25-26, 2025 T25AJ092-0021
07:00-08:00 HOUR	0.0037	0.0035	0.0035	0.0030
08:00-09:00 HOUR	0.0031	0.0031	0.0032	0.0026
09:00-10:00 HOUR	0.0031	0.0026	0.0030	0.0029
10:00-11:00 HOUR	0.0029	0.0028	0.0029	0.0033
11:00-12:00 HOUR	0.0033	0.0031	0.0033	0.0036
12:00-13:00 HOUR	0.0034	0.0038	0.0037	0.0037
13:00-14:00 HOUR	0.0038	0.0038	0.0041	0.0039
14:00-15:00 HOUR	0.0045	0.0038	0.0042	0.0041
15:00-16:00 HOUR	0.0048	0.0039	0.0044	0.0042
16:00-17:00 HOUR	0.0048	0.0041	0.0046	0.0040
17:00-18:00 HOUR	0.0046	0.0042	0.0044	0.0042
18:00-19:00 HOUR	0.0047	0.0038	0.0042	0.0046
19:00-20:00 HOUR	0.0046	0.0038	0.0036	0.0048
20:00-21:00 HOUR	0.0042	0.0036	0.0035	0.0045
21:00-22:00 HOUR	0.0039	0.0038	0.0031	0.0039
22:00-23:00 HOUR	0.0036	0.0038	0.0029	0.0037
23:00-00:00 HOUR	0.0040	0.0040	0.0027	0.0038
00:00-01:00 HOUR	0.0039	0.0040	0.0028	0.0038
01:00-02:00 HOUR	0.0041	0.0039	0.0031	0.0035
02:00-03:00 HOUR	0.0040	0.0038	0.0034	0.0037
03:00-04:00 HOUR	0.0044	0.0038	0.0035	0.0037
04:00-05:00 HOUR	0.0045	0.0042	0.0034	0.0038
05:00-06:00 HOUR	0.0043	0.0041	0.0034	0.0035
06:00-07:00 HOUR	0.0040	0.0038	0.0032	0.0035
AVERAGE 24 HOUR	0.0040	0.0037	0.0035	0.0038

*Sila Banjongjairuk*

(MR. SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19-26, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 19-26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayoichaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 6, 2025
<b>MEASURING PLACE</b>	: K.U.STATION	<b>REPORT NO.</b>	: 2025-U038647
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2019-002022
<b>MEASURING DATE</b>	: APRIL 19-26, 2025	<b>ANALYSIS NO.</b>	: T25AJ092-0022 - T25AJ092-0028
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: UV FLUORESCENCE		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	K.U.STATION		
	APRIL 19-20, 2025 T25AJ092-0022	APRIL 20-21, 2025 T25AJ092-0023	APRIL 21-22, 2025 T25AJ092-0024
07:00-08:00 HOUR	0.0028	0.0030	0.0029
08:00-09:00 HOUR	0.0027	0.0027	0.0028
09:00-10:00 HOUR	0.0026	0.0025	0.0030
10:00-11:00 HOUR	0.0028	0.0027	0.0030
11:00-12:00 HOUR	0.0027	0.0028	0.0031
12:00-13:00 HOUR	0.0029	0.0028	0.0031
13:00-14:00 HOUR	0.0030	0.0026	0.0036
14:00-15:00 HOUR	0.0036	0.0027	0.0038
15:00-16:00 HOUR	0.0038	0.0029	0.0042
16:00-17:00 HOUR	0.0040	0.0033	0.0043
17:00-18:00 HOUR	0.0038	0.0031	0.0045
18:00-19:00 HOUR	0.0038	0.0029	0.0045
19:00-20:00 HOUR	0.0035	0.0025	0.0043
20:00-21:00 HOUR	0.0035	0.0025	0.0042
21:00-22:00 HOUR	0.0033	0.0026	0.0040
22:00-23:00 HOUR	0.0037	0.0029	0.0038
23:00-00:00 HOUR	0.0038	0.0028	0.0036
00:00-01:00 HOUR	0.0038	0.0027	0.0037
01:00-02:00 HOUR	0.0032	0.0028	0.0040
02:00-03:00 HOUR	0.0032	0.0033	0.0039
03:00-04:00 HOUR	0.0032	0.0035	0.0035
04:00-05:00 HOUR	0.0035	0.0038	0.0031
05:00-06:00 HOUR	0.0033	0.0035	0.0031
06:00-07:00 HOUR	0.0033	0.0033	0.0030
AVERAGE 24 HOUR	0.0033	0.0029	0.0036



TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	K.U.STATION			
	APRIL 22-23, 2025 T25AJ092-0025	APRIL 23-24, 2025 T25AJ092-0026	APRIL 24-25, 2025 T25AJ092-0027	APRIL 25-26, 2025 T25AJ092-0028
07:00-08:00 HOUR	0.0028	0.0028	0.0028	0.0031
08:00-09:00 HOUR	0.0026	0.0026	0.0026	0.0029
09:00-10:00 HOUR	0.0024	0.0023	0.0027	0.0026
10:00-11:00 HOUR	0.0023	0.0026	0.0026	0.0028
11:00-12:00 HOUR	0.0025	0.0026	0.0029	0.0030
12:00-13:00 HOUR	0.0026	0.0029	0.0031	0.0032
13:00-14:00 HOUR	0.0027	0.0030	0.0034	0.0034
14:00-15:00 HOUR	0.0030	0.0030	0.0033	0.0034
15:00-16:00 HOUR	0.0035	0.0030	0.0033	0.0037
16:00-17:00 HOUR	0.0038	0.0028	0.0035	0.0042
17:00-18:00 HOUR	0.0035	0.0031	0.0034	0.0038
18:00-19:00 HOUR	0.0035	0.0032	0.0040	0.0035
19:00-20:00 HOUR	0.0037	0.0034	0.0038	0.0038
20:00-21:00 HOUR	0.0038	0.0031	0.0034	0.0036
21:00-22:00 HOUR	0.0038	0.0029	0.0038	0.0039
22:00-23:00 HOUR	0.0034	0.0027	0.0042	0.0037
23:00-00:00 HOUR	0.0030	0.0030	0.0045	0.0039
00:00-01:00 HOUR	0.0027	0.0031	0.0042	0.0031
01:00-02:00 HOUR	0.0030	0.0030	0.0041	0.0032
02:00-03:00 HOUR	0.0034	0.0028	0.0041	0.0034
03:00-04:00 HOUR	0.0038	0.0028	0.0042	0.0031
04:00-05:00 HOUR	0.0037	0.0034	0.0042	0.0033
05:00-06:00 HOUR	0.0036	0.0036	0.0038	0.0028
06:00-07:00 HOUR	0.0033	0.0033	0.0038	0.0031
AVERAGE 24 HOUR	0.0032	0.0030	0.0036	0.0034

*Sila Banjongjairuk*

(MR SILA BANJONGJAIRUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19-26, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 19-26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 6, 2025
<b>MEASURING PLACE</b>	: REFINERY GATE	<b>REPORT NO.</b>	: 2025-U038642
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2019-002022
<b>MEASURING DATE</b>	: APRIL 19-26, 2025	<b>ANALYSIS NO.</b>	: T25AJ092-0001 - T25AJ092-0007
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: UV FLUORESCENCE		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	REFINERY GATE		
	APRIL 19-20, 2025 T25AJ092-0001	APRIL 20-21, 2025 T25AJ092-0002	APRIL 21-22, 2025 T25AJ092-0003
07:00-08:00 HOUR	0.0045	0.0048	0.0044
08:00-09:00 HOUR	0.0042	0.0047	0.0036
09:00-10:00 HOUR	0.0044	0.0043	0.0033
10:00-11:00 HOUR	0.0039	0.0044	0.0034
11:00-12:00 HOUR	0.0042	0.0043	0.0036
12:00-13:00 HOUR	0.0039	0.0046	0.0041
13:00-14:00 HOUR	0.0044	0.0043	0.0044
14:00-15:00 HOUR	0.0048	0.0043	0.0048
15:00-16:00 HOUR	0.0051	0.0043	0.0049
16:00-17:00 HOUR	0.0053	0.0049	0.0052
17:00-18:00 HOUR	0.0054	0.0054	0.0053
18:00-19:00 HOUR	0.0059	0.0058	0.0053
19:00-20:00 HOUR	0.0059	0.0058	0.0047
20:00-21:00 HOUR	0.0058	0.0052	0.0045
21:00-22:00 HOUR	0.0056	0.0052	0.0047
22:00-23:00 HOUR	0.0057	0.0047	0.0049
23:00-00:00 HOUR	0.0055	0.0046	0.0049
00:00-01:00 HOUR	0.0050	0.0040	0.0046
01:00-02:00 HOUR	0.0051	0.0040	0.0045
02:00-03:00 HOUR	0.0049	0.0041	0.0048
03:00-04:00 HOUR	0.0049	0.0045	0.0048
04:00-05:00 HOUR	0.0047	0.0049	0.0053
05:00-06:00 HOUR	0.0051	0.0051	0.0051
06:00-07:00 HOUR	0.0051	0.0049	0.0049
AVERAGE 24 HOUR	0.0050	0.0047	0.0046





TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	REFINERY GATE			
	APRIL 22-23, 2025 T25AJ092-0004	APRIL 23-24, 2025 T25AJ092-0005	APRIL 24-25, 2025 T25AJ092-0006	APRIL 25-26, 2025 T25AJ092-0007
07:00-08:00 HOUR	0.0043	0.0041	0.0048	0.0042
08:00-09:00 HOUR	0.0038	0.0037	0.0042	0.0039
09:00-10:00 HOUR	0.0033	0.0035	0.0040	0.0039
10:00-11:00 HOUR	0.0034	0.0036	0.0042	0.0036
11:00-12:00 HOUR	0.0037	0.0033	0.0045	0.0040
12:00-13:00 HOUR	0.0043	0.0037	0.0043	0.0038
13:00-14:00 HOUR	0.0043	0.0041	0.0047	0.0040
14:00-15:00 HOUR	0.0045	0.0050	0.0048	0.0040
15:00-16:00 HOUR	0.0045	0.0056	0.0049	0.0042
16:00-17:00 HOUR	0.0048	0.0057	0.0046	0.0044
17:00-18:00 HOUR	0.0045	0.0058	0.0047	0.0047
18:00-19:00 HOUR	0.0044	0.0054	0.0053	0.0055
19:00-20:00 HOUR	0.0047	0.0049	0.0049	0.0062
20:00-21:00 HOUR	0.0048	0.0042	0.0047	0.0064
21:00-22:00 HOUR	0.0051	0.0041	0.0044	0.0058
22:00-23:00 HOUR	0.0050	0.0041	0.0046	0.0052
23:00-00:00 HOUR	0.0050	0.0042	0.0054	0.0049
00:00-01:00 HOUR	0.0048	0.0038	0.0055	0.0056
01:00-02:00 HOUR	0.0050	0.0039	0.0062	0.0056
02:00-03:00 HOUR	0.0051	0.0038	0.0062	0.0054
03:00-04:00 HOUR	0.0050	0.0043	0.0061	0.0047
04:00-05:00 HOUR	0.0052	0.0049	0.0058	0.0048
05:00-06:00 HOUR	0.0053	0.0051	0.0050	0.0050
06:00-07:00 HOUR	0.0050	0.0053	0.0047	0.0056
AVERAGE 24 HOUR	0.0046	0.0044	0.0049	0.0048

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

ทิศทางและความเร็วลม

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## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19-26, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 19-26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 6, 2025
<b>MEASURING PLACE</b>	: BAN AO UDOM	<b>REPORT NO.</b>	: 2025-U038651
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2019-002022
<b>MEASURING DATE</b>	: APRIL 19-26, 2025	<b>ANALYSIS NO.</b>	: T25AJ092-0008 - T25AJ092-0014
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: WIND SPEED & WIND DIRECTION EQUIPMENT		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME *	RESULT (m/s)					
	BAN AO UDOM					
	APRIL 19-20, 2025 T25AJ092-0008		APRIL 20-21, 2025 T25AJ092-0009		APRIL 21-22, 2025 T25AJ092-0010	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	2.4	SSW	2.3	S	2.4	WSW
08:00-09:00 HOUR	2.9	SSW	2.6	SSW	3.5	SSW
09:00-10:00 HOUR	1.9	S	2.5	SSW	3.0	SW
10:00-11:00 HOUR	1.7	SSW	2.9	ESE	2.4	S
11:00-12:00 HOUR	1.6	S	2.8	SE	3.1	SW
12:00-13:00 HOUR	2.3	S	3.0	ESE	3.6	SSW
13:00-14:00 HOUR	1.8	S	2.2	SE	3.1	ESE
14:00-15:00 HOUR	1.5	SSW	3.4	SSW	3.4	SSE
15:00-16:00 HOUR	1.4	S	3.5	SE	3.4	SSE
16:00-17:00 HOUR	1.0	SSW	2.6	SSW	3.3	S
17:00-18:00 HOUR	0.8	SSW	2.7	SSW	2.7	S
18:00-19:00 HOUR	0.8	S	3.0	S	3.0	SSW
19:00-20:00 HOUR	0.8	S	3.5	SSE	3.1	SW
20:00-21:00 HOUR	0.8	SSW	2.7	SSE	3.2	SSW
21:00-22:00 HOUR	0.9	SSW	2.6	SSW	2.8	S
22:00-23:00 HOUR	0.7	S	2.3	S	3.6	S
23:00-00:00 HOUR	0.7	SSW	3.0	SSW	3.8	SE
00:00-01:00 HOUR	0.9	S	3.3	WSW	2.9	ESE
01:00-02:00 HOUR	1.1	S	2.6	SW	3.3	SSE
02:00-03:00 HOUR	1.1	S	2.2	WSW	3.8	ESE
03:00-04:00 HOUR	1.6	SSE	3.0	W	3.5	SSE
04:00-05:00 HOUR	1.3	S	3.7	WSW	3.5	SE
05:00-06:00 HOUR	2.1	S	3.1	SW	3.2	SSW
06:00-07:00 HOUR	2.3	SSW	2.7	SSW	2.6	SSW



TIME *	RESULT (m/s)							
	BAN AO UDOM							
	APRIL 22-23, 2025		APRIL 23-24, 2025		APRIL 24-25, 2025		APRIL 25-26, 2025	
	T25AJ092-0011		T25AJ092-0012		T25AJ092-0013		T25AJ092-0014	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	2.5	SSW	2.5	SE	2.6	SSW	1.4	WSW
08:00-09:00 HOUR	2.9	SW	2.1	ESE	2.3	SW	1.1	SSW
09:00-10:00 HOUR	2.8	S	2.6	ESE	2.3	SW	0.9	SSW
10:00-11:00 HOUR	2.4	S	2.3	ESE	2.6	SSW	1.1	SW
11:00-12:00 HOUR	1.7	S	3.1	ESE	2.3	SSW	1.1	S
12:00-13:00 HOUR	1.8	SE	1.9	ESE	3.7	S	2.0	S
13:00-14:00 HOUR	1.6	SSE	2.1	SSE	3.0	SSW	2.5	SSW
14:00-15:00 HOUR	1.8	S	2.3	SE	3.3	SW	2.6	SSW
15:00-16:00 HOUR	1.4	SE	1.6	SSW	2.9	SSW	2.4	SW
16:00-17:00 HOUR	2.2	SW	1.7	S	3.3	SW	2.1	SSE
17:00-18:00 HOUR	2.1	WSW	1.1	SSW	3.5	S	2.9	S
18:00-19:00 HOUR	2.1	SSW	1.4	SW	2.5	SSW	3.1	SSE
19:00-20:00 HOUR	2.8	SW	1.3	SSE	2.4	S	3.2	SSW
20:00-21:00 HOUR	3.0	SSW	1.2	SSE	3.1	S	3.4	WSW
21:00-22:00 HOUR	3.5	SW	0.9	SE	3.3	S	2.2	S
22:00-23:00 HOUR	2.5	SSE	1.0	ESE	3.1	SSE	2.5	SW
23:00-00:00 HOUR	2.9	S	0.9	ESE	2.5	SSE	2.9	WSW
00:00-01:00 HOUR	2.5	SSW	1.6	SE	2.5	S	3.1	WSW
01:00-02:00 HOUR	2.4	S	1.4	ESE	2.4	S	2.9	SSW
02:00-03:00 HOUR	1.6	SSW	1.7	SE	2.5	S	2.8	SW
03:00-04:00 HOUR	1.6	S	2.3	SSW	2.5	SSW	3.1	SW
04:00-05:00 HOUR	1.7	SSE	2.7	S	3.1	S	2.1	W
05:00-06:00 HOUR	2.1	SSE	2.4	SSW	2.9	SW	2.7	WSW
06:00-07:00 HOUR	2.1	ESE	2.8	WSW	1.7	S	3.2	SW

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19-26, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 19-26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 6, 2025
<b>MEASURING PLACE</b>	: LAM CHABANG PORT'S GATE	<b>REPORT NO.</b>	: 2025-U038653
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2019-002022
<b>MEASURING DATE</b>	: APRIL 19-26, 2025	<b>ANALYSIS NO.</b>	: T25AJ092-0015 - T25AJ092-0021
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: WIND SPEED & WIND DIRECTION EQUIPMENT		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME *	RESULT (m/s)					
	LAM CHABANG PORT'S GATE					
	APRIL 19-20, 2025 T25AJ092-0015		APRIL 20-21, 2025 T25AJ092-0016		APRIL 21-22, 2025 T25AJ092-0017	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	1.2	S	1.7	NE	2.6	SE
08:00-09:00 HOUR	1.7	S	1.8	NE	2.7	ESE
09:00-10:00 HOUR	2.0	S	1.8	NE	2.9	ENE
10:00-11:00 HOUR	1.8	ESE	1.8	E	2.0	ESE
11:00-12:00 HOUR	1.8	ENE	1.8	E	1.8	ENE
12:00-13:00 HOUR	1.6	ESE	1.9	ENE	2.5	ENE
13:00-14:00 HOUR	2.4	E	1.6	SE	2.3	SSE
14:00-15:00 HOUR	2.5	ESE	1.9	SE	1.9	SE
15:00-16:00 HOUR	2.8	ESE	1.2	SE	1.5	SSE
16:00-17:00 HOUR	2.2	ESE	1.4	SSE	2.0	ESE
17:00-18:00 HOUR	3.0	SE	0.8	SE	1.4	E
18:00-19:00 HOUR	2.5	ESE	1.1	SSE	1.5	E
19:00-20:00 HOUR	2.7	ESE	0.9	SE	1.0	ENE
20:00-21:00 HOUR	3.0	SE	1.0	ESE	1.2	ENE
21:00-22:00 HOUR	2.2	SSE	1.2	ESE	1.1	ENE
22:00-23:00 HOUR	2.4	ESE	0.5	SE	0.8	ENE
23:00-00:00 HOUR	1.8	SE	1.1	E	0.8	E
00:00-01:00 HOUR	1.0	E	0.8	SSE	1.1	E
01:00-02:00 HOUR	0.8	NE	1.0	SE	1.1	E
02:00-03:00 HOUR	1.2	E	1.1	SE	0.9	ESE
03:00-04:00 HOUR	1.4	E	1.7	SSE	1.4	SE
04:00-05:00 HOUR	2.1	E	1.4	SE	2.0	ESE
05:00-06:00 HOUR	1.7	ENE	2.1	SE	2.2	S
06:00-07:00 HOUR	2.1	ENE	1.8	SE	2.3	SSW





TIME *	RESULT (m/s)							
	LAM CHABANG PORT'S GATE							
	APRIL 22-23, 2025		APRIL 23-24, 2025		APRIL 24-25, 2025		APRIL 25-26, 2025	
	T25AJ092-0018		T25AJ092-0019		T25AJ092-0020		T25AJ092-0021	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	2.1	SSE	1.2	S	2.1	NE	1.9	E
08:00-09:00 HOUR	2.2	SSW	1.1	SSW	2.1	ENE	1.6	E
09:00-10:00 HOUR	1.8	S	1.3	SW	3.3	E	2.5	ENE
10:00-11:00 HOUR	1.3	SSE	0.9	SW	2.4	ENE	2.4	E
11:00-12:00 HOUR	1.4	SE	0.9	SSE	2.7	SE	3.5	ENE
12:00-13:00 HOUR	1.1	ESE	1.3	SE	2.3	SE	2.1	ENE
13:00-14:00 HOUR	1.0	SE	0.9	SE	2.7	SSE	2.7	ENE
14:00-15:00 HOUR	1.6	SE	0.8	ESE	2.2	SSE	2.3	ESE
15:00-16:00 HOUR	1.3	SE	1.0	ENE	2.7	SSE	1.9	SSE
16:00-17:00 HOUR	2.3	S	1.1	E	2.3	S	1.9	ESE
17:00-18:00 HOUR	2.0	SSE	1.0	NE	2.9	SSW	2.0	SSW
18:00-19:00 HOUR	1.8	SSE	1.4	NE	2.7	S	2.1	SSW
19:00-20:00 HOUR	2.1	SSE	1.4	S	2.8	S	1.8	NE
20:00-21:00 HOUR	1.8	SSE	2.0	SSE	2.9	SSE	2.1	ENE
21:00-22:00 HOUR	2.6	SSE	2.0	SSW	2.9	SSE	2.3	ENE
22:00-23:00 HOUR	2.4	SSE	1.5	SE	2.2	SE	2.4	ENE
23:00-00:00 HOUR	2.1	SE	2.0	E	2.1	SE	1.9	E
00:00-01:00 HOUR	1.6	SSE	1.5	ENE	1.6	SE	2.3	ESE
01:00-02:00 HOUR	1.6	SSE	1.6	E	2.5	SSE	1.6	ENE
02:00-03:00 HOUR	1.4	SSW	1.5	NE	1.5	SSE	1.5	SE
03:00-04:00 HOUR	1.3	SSE	1.7	NE	2.0	SSE	1.5	SE
04:00-05:00 HOUR	1.1	SSE	1.9	NE	2.0	SE	1.8	SE
05:00-06:00 HOUR	1.1	S	2.3	NE	2.0	ESE	1.6	SE
06:00-07:00 HOUR	0.9	SW	2.5	NE	2.1	ESE	1.8	SE

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19-26, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 19-26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 6, 2025
<b>MEASURING PLACE</b>	: K.U.STATION	<b>REPORT NO.</b>	: 2025-U038655
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2019-002022
<b>MEASURING DATE</b>	: APRIL 19-26, 2025	<b>ANALYSIS NO.</b>	: T25AJ092-0022 - T25AJ092-0028
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: WIND SPEED & WIND DIRECTION EQUIPMENT		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME *	RESULT (m/s)					
	K.U.STATION					
	APRIL 19-20, 2025		APRIL 20-21, 2025		APRIL 21-22, 2025	
	T25AJ092-0022		T25AJ092-0023		T25AJ092-0024	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	1.0	SSE	1.7	E	1.6	SE
08:00-09:00 HOUR	0.8	SE	1.5	E	2.0	SE
09:00-10:00 HOUR	0.8	SE	1.3	E	2.3	SW
10:00-11:00 HOUR	0.8	SE	0.8	SW	2.0	SE
11:00-12:00 HOUR	1.1	SSE	0.9	SSW	1.9	SSE
12:00-13:00 HOUR	0.9	SSE	0.9	S	1.4	SW
13:00-14:00 HOUR	0.8	SSE	1.1	S	1.1	ESE
14:00-15:00 HOUR	0.7	SE	1.2	SSW	0.9	SE
15:00-16:00 HOUR	0.9	SE	1.2	SSW	1.0	SE
16:00-17:00 HOUR	0.8	ESE	0.9	SW	0.7	SE
17:00-18:00 HOUR	1.1	SE	1.1	S	1.0	SE
18:00-19:00 HOUR	0.9	SE	0.9	SSW	1.1	SSE
19:00-20:00 HOUR	0.8	SE	0.7	SSW	1.1	SSE
20:00-21:00 HOUR	0.9	SSE	0.8	SE	1.3	SE
21:00-22:00 HOUR	0.8	SSE	0.9	S	1.3	SSE
22:00-23:00 HOUR	0.8	SE	0.7	S	1.3	SE
23:00-00:00 HOUR	0.9	SE	0.9	ESE	1.8	E
00:00-01:00 HOUR	1.1	E	0.7	SE	2.0	ESE
01:00-02:00 HOUR	1.2	E	1.0	SSE	1.5	SE
02:00-03:00 HOUR	2.0	E	0.9	SSE	1.8	ENE
03:00-04:00 HOUR	1.9	E	0.6	SSE	1.9	ESE
04:00-05:00 HOUR	2.1	ENE	0.8	SSE	1.5	ESE
05:00-06:00 HOUR	2.3	ENE	1.3	SE	1.9	S
06:00-07:00 HOUR	2.0	E	1.1	SE	2.1	SW



TIME *	RESULT (m/s)							
	K.U.STATION							
	APRIL 22-23, 2025		APRIL 23-24, 2025		APRIL 24-25, 2025		APRIL 25-26, 2025	
	T25AJ092-0025		T25AJ092-0026		T25AJ092-0027		T25AJ092-0028	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	2.0	SSW	2.4	ESE	2.8	SSE	2.6	E
08:00-09:00 HOUR	1.4	SW	2.5	ESE	3.2	E	3.1	ESE
09:00-10:00 HOUR	2.0	SW	3.4	ESE	2.1	E	2.9	SE
10:00-11:00 HOUR	2.0	SW	2.2	SSE	2.9	SE	3.4	ESE
11:00-12:00 HOUR	1.7	SSW	2.2	SSE	1.6	SE	2.2	ESE
12:00-13:00 HOUR	2.3	SSW	3.0	SE	2.0	SE	2.5	ESE
13:00-14:00 HOUR	2.1	SSW	2.6	SSE	1.4	S	2.9	SE
14:00-15:00 HOUR	2.4	S	2.6	SE	1.5	SSE	2.9	SSE
15:00-16:00 HOUR	2.1	SSW	2.7	ESE	1.4	S	3.2	SSE
16:00-17:00 HOUR	3.3	S	2.8	ESE	2.0	SE	2.8	S
17:00-18:00 HOUR	3.3	SSE	2.5	E	2.3	S	2.4	S
18:00-19:00 HOUR	2.3	SSE	2.0	E	1.9	SSE	2.5	S
19:00-20:00 HOUR	2.8	SE	2.3	SE	2.6	SSW	1.6	E
20:00-21:00 HOUR	2.6	ESE	3.7	SSE	2.7	S	2.9	E
21:00-22:00 HOUR	2.6	SE	3.7	SE	3.0	SW	2.3	ENE
22:00-23:00 HOUR	3.0	E	3.9	S	2.0	SW	2.8	E
23:00-00:00 HOUR	2.4	E	4.3	SSW	2.4	SW	3.0	ENE
00:00-01:00 HOUR	2.8	ESE	3.1	SSW	1.8	SE	2.7	E
01:00-02:00 HOUR	2.2	ESE	4.2	S	1.7	SSE	3.1	E
02:00-03:00 HOUR	3.2	E	3.3	SW	2.1	E	2.5	E
03:00-04:00 HOUR	2.8	ESE	3.8	S	2.1	SE	3.7	ENE
04:00-05:00 HOUR	2.9	E	3.5	SW	1.7	ESE	3.0	ENE
05:00-06:00 HOUR	2.7	ESE	3.2	S	1.6	E	3.7	ENE
06:00-07:00 HOUR	2.8	ESE	3.3	SSE	2.0	ESE	3.6	ENE

*Sila Banjongjairuk*

(MR SILA BANJONGJAIRUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19-26, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 19-26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 6, 2025
<b>MEASURING PLACE</b>	: REFINERY GATE	<b>REPORT NO.</b>	: 2025-U038649
<b>MEASURING TYPE</b>	: AMBIENT (AIR)	<b>WORK NO.</b>	: 2019-002022
<b>MEASURING DATE</b>	: APRIL 19-26, 2025	<b>ANALYSIS NO.</b>	: T25AJ092-0001 - T25AJ092-0007
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: WIND SPEED & WIND DIRECTION EQUIPMENT		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME *	RESULT (m/s)					
	REFINERY GATE					
	APRIL 19-20, 2025 T25AJ092-0001		APRIL 20-21, 2025 T25AJ092-0002		APRIL 21-22, 2025 T25AJ092-0003	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	2.2	SW	2.4	ESE	1.4	SE
08:00-09:00 HOUR	2.2	WSW	1.5	E	1.5	ESE
09:00-10:00 HOUR	2.2	SSW	1.1	ENE	1.1	ESE
10:00-11:00 HOUR	2.9	WSW	1.0	SE	1.0	ESE
11:00-12:00 HOUR	2.3	SW	0.9	SSE	1.7	SE
12:00-13:00 HOUR	2.9	WSW	1.0	SE	1.8	SE
13:00-14:00 HOUR	1.7	W	0.8	SSE	1.9	S
14:00-15:00 HOUR	1.8	W	1.2	SSE	2.1	S
15:00-16:00 HOUR	2.5	SW	1.9	SE	2.0	SSE
16:00-17:00 HOUR	2.4	SW	1.4	SE	1.5	S
17:00-18:00 HOUR	2.0	SSW	1.7	SSE	1.8	S
18:00-19:00 HOUR	1.6	S	2.3	SSE	2.4	SSW
19:00-20:00 HOUR	1.4	ESE	1.5	SSW	2.3	WSW
20:00-21:00 HOUR	1.9	ESE	2.6	SW	1.6	SW
21:00-22:00 HOUR	2.7	SE	2.0	WSW	2.0	SW
22:00-23:00 HOUR	2.3	SE	3.3	W	1.9	SW
23:00-00:00 HOUR	2.4	SE	3.5	W	2.3	WSW
00:00-01:00 HOUR	3.5	SW	3.1	SSW	1.6	WSW
01:00-02:00 HOUR	3.5	S	2.3	W	2.1	WNW
02:00-03:00 HOUR	2.8	SW	2.5	SSW	2.3	W
03:00-04:00 HOUR	3.0	SSE	2.6	SSW	1.9	W
04:00-05:00 HOUR	3.2	SSE	2.4	SE	2.1	WSW
05:00-06:00 HOUR	2.7	SE	2.4	SE	1.4	W
06:00-07:00 HOUR	3.6	ESE	1.9	SSE	2.1	SW



TIME *	RESULT (m/s)							
	REFINERY GATE							
	APRIL 22-23, 2025		APRIL 23-24, 2025		APRIL 24-25, 2025		APRIL 25-26, 2025	
	T25AJ092-0004		T25AJ092-0005		T25AJ092-0006		T25AJ092-0007	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
07:00-08:00 HOUR	1.3	W	1.0	SE	1.3	SSW	1.1	SW
08:00-09:00 HOUR	1.8	WSW	1.0	SE	1.2	SSE	0.9	S
09:00-10:00 HOUR	1.6	SW	0.8	SE	1.4	SSW	1.1	SSE
10:00-11:00 HOUR	1.0	WSW	2.0	ESE	1.9	S	1.1	S
11:00-12:00 HOUR	0.8	S	2.1	ESE	2.2	SSW	1.0	SSE
12:00-13:00 HOUR	1.1	ESE	2.3	ESE	2.0	SSW	1.8	SE
13:00-14:00 HOUR	0.8	SE	2.8	SE	1.9	S	1.6	SE
14:00-15:00 HOUR	1.1	S	3.1	S	1.6	SSW	2.1	SE
15:00-16:00 HOUR	1.5	E	1.5	S	2.3	S	1.8	SE
16:00-17:00 HOUR	1.9	ENE	3.2	SE	2.4	SW	2.0	ESE
17:00-18:00 HOUR	2.2	ENE	3.3	S	1.9	SSW	2.1	SE
18:00-19:00 HOUR	2.0	E	2.5	SSW	1.3	SW	1.6	ESE
19:00-20:00 HOUR	2.4	ESE	2.3	SW	1.2	SSW	0.9	SE
20:00-21:00 HOUR	3.5	ESE	2.9	S	0.9	S	0.9	ESE
21:00-22:00 HOUR	3.5	E	1.0	S	0.9	SSW	1.2	ESE
22:00-23:00 HOUR	3.1	ESE	3.4	SSE	1.5	WSW	1.2	SE
23:00-00:00 HOUR	3.5	ESE	1.5	SE	1.6	SW	1.3	E
00:00-01:00 HOUR	3.1	ESE	2.1	SE	2.5	SW	1.3	E
01:00-02:00 HOUR	2.2	ESE	0.8	SSE	2.2	SW	1.6	E
02:00-03:00 HOUR	2.1	SE	1.2	SE	3.3	WSW	1.5	E
03:00-04:00 HOUR	2.2	S	1.6	S	2.2	SW	2.2	E
04:00-05:00 HOUR	2.5	SE	2.6	SSW	2.9	W	1.8	E
05:00-06:00 HOUR	1.7	S	1.5	SW	1.7	WSW	1.9	ENE
06:00-07:00 HOUR	1.4	SSE	1.6	SSW	2.0	SSE	2.0	ENE

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR



คุณภาพอากาศจากปล่องระบายอากาศ

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## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 29, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 29-MAY 6, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 13, 2025
<b>SAMPLING SOURCE</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>REPORT NO.</b>	: 2025-U040795
<b>SAMPLE TYPE</b>	: STACK	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLING DATE</b>	: APRIL 22, 2025	<b>ANALYSIS NO.</b>	: T25AJ103-0001
<b>SAMPLING TIME</b>	: 11:30-12:50 HOUR		
<b>SAMPLING BY</b>	: MR NOPPASIN THANUTHAMMARAT ๖-145-๖-0036		
<b>ANALYZED BY</b>	: MISS SUWAN KONGTHONG ๖-145-๖-0025		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			APS-1 (F-101) T25AJ103-0001	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	2.61	2.18
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 1.30	< 1.30
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		APS-1 (F-101) T25AJ103-0001
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	35
STACK TEMPERATURE	°C	382.75
DIAMETER	m	1.65
GAS VELOCITY	m/s	9.2
FLOW RATE	Nm <sup>3</sup> /hr	27,241.63
OXYGEN	%	4.22
MOISTURE	%	15.07
CARBONDIOXIDE	%	9.51
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.956591

### REMARK

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

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
๖-145-๖-0011



## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 22, 2025  
**SAMPLING TIME** : 11:40-11:50 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT ๓-145-๑-0036  
**ANALYZED BY** : MR NOPPASIN THANUTHAMMARAT ๓-145-๑-0036

**RECEIVED DATE** : APRIL 22, 2025  
**ANALYTICAL DATE** : APRIL 22, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040796  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			APS-1 (F-101) T25AJ103-0001	
			ACTUAL OXYGEN	7% OXYGEN
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	111	92
CARBON MONOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 10, JULY 2021	10	8
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		APS-1 (F-101) T25AJ103-0001
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	35
STACK TEMPERATURE	°C	382.75
DIAMETER	m	1.65
GAS VELOCITY	m/s	9.2
FLOW RATE	Nm <sup>3</sup> /hr	27,241.63
OXYGEN	%	4.22
MOISTURE	%	15.07
CARBONDIOXIDE	%	9.51
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.956591

**REMARK**

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
๓-145-๑-0021





## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 22, 2025  
**SAMPLING TIME** : 11:00-12:10 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT ๖-145-๖-0036  
**ANALYZED BY** : MISS SUWAN KONGTHONG ๖-145-๓-0025

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29-MAY 6, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040798  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			APS-1 (F-102) T25AJ103-0002	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	3.39	4.38
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 1.30	< 1.30
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		APS-1 (F-102) T25AJ103-0002
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	35.75
STACK TEMPERATURE	°C	216.42
DIAMETER	m	1.52
GAS VELOCITY	m/s	14.53
FLOW RATE	Nm <sup>3</sup> /hr	49,557.08
OXYGEN	%	10.15
MOISTURE	%	13.83
CARBONDIOXIDE	%	2.36
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.974479

**REMARK**

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

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
๖-145-๓-0011



## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 22, 2025  
**SAMPLING TIME** : 11:10-11:20 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT ๓-145-๓-0036  
**ANALYZED BY** : MR NOPPASIN THANUTHAMMARAT ๓-145-๓-0036

**RECEIVED DATE** : APRIL 22, 2025  
**ANALYTICAL DATE** : APRIL 22, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040799  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			APS-1 (F-102) T25AJ103-0002	
			ACTUAL OXYGEN	7% OXYGEN
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	46	59
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		APS-1 (F-102) T25AJ103-0002
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	35.75
STACK TEMPERATURE	°C	216.42
DIAMETER	m	1.52
GAS VELOCITY	m/s	14.53
FLOW RATE	Nm³/hr	49,557.08
OXYGEN	%	10.15
MOISTURE	%	13.83
CARBONDIOXIDE	%	2.36
VOLUME OF DRY GAS AT STP	m³	0.974479

**REMARK**

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
๓-145-๓-0021



## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayoachana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 23, 2025  
**SAMPLING TIME** : 10:00-11:20 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT ๓-145-๓-0036  
**ANALYZED BY** : MISS SUWAN KONGTHONG ๓-145-๓-0025

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29-MAY 6, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040820  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0010

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			COMMON STACK OF BOILER 3&4 T25AJ103-0010	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	2.39	2.05
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 1.30	< 1.30
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		COMMON STACK OF BOILER 3&4 T25AJ103-0010
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	30.67
STACK TEMPERATURE	°C	210
DIAMETER	m	3.65
GAS VELOCITY	m/s	6.73
FLOW RATE	Nm <sup>3</sup> /hr	134,585.32
OXYGEN	%	4.72
MOISTURE	%	13.68
CARBONDIOXIDE	%	9.23
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.972

**REMARK**

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

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
๓-145-๓-0011





## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 23, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 23, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayoachana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 13, 2025
<b>SAMPLING SOURCE</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>REPORT NO.</b>	: 2025-U040821
<b>SAMPLE TYPE</b>	: STACK	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLING DATE</b>	: APRIL 23, 2025	<b>ANALYSIS NO.</b>	: T25AJ103-0010
<b>SAMPLING TIME</b>	: 10:10-10:20 HOUR		
<b>SAMPLING BY</b>	: MR NOPPASIN THANUTHAMMARAT จ-145-จ-0036		
<b>ANALYZED BY</b>	: MR NOPPASIN THANUTHAMMARAT จ-145-จ-0036		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			COMMON STACK OF BOILER 3&4 T25AJ103-0010	
			ACTUAL OXYGEN	7% OXYGEN
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	44	38
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		COMMON STACK OF BOILER 3&4 T25AJ103-0010
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	30.67
STACK TEMPERATURE	°C	210
DIAMETER	m	3.65
GAS VELOCITY	m/s	6.73
FLOW RATE	Nm³/hr	134,585.32
OXYGEN	%	4.72
MOISTURE	%	13.68
CARBONDIOXIDE	%	9.23
VOLUME OF DRY GAS AT STP	m³	0.972

### REMARK

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
จ-145-ค-0021



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 29, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 29-MAY 6, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 13, 2025
<b>SAMPLING SOURCE</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>REPORT NO.</b>	: 2025-U040810
<b>SAMPLE TYPE</b>	: STACK	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLING DATE</b>	: APRIL 24, 2025	<b>ANALYSIS NO.</b>	: T25AJ103-0007
<b>SAMPLING TIME</b>	: 10:50-12:10 HOUR		
<b>SAMPLING BY</b>	: MR NOPPASIN THANUTHAMMARAT จ-145-จ-0036		
<b>ANALYZED BY</b>	: MISS SUWAN KONGTHONG จ-145-ค-0025		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			FCCU REGENERATOR T25AJ103-0007	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	35.5	116
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 1.30	< 1.30
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		FCCU REGENERATOR T25AJ103-0007
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	31.67
STACK TEMPERATURE	°C	209.67
DIAMETER	m	3.8
GAS VELOCITY	m/s	14.32
FLOW RATE	Nm <sup>3</sup> /hr	329,034.05
OXYGEN	%	16.66
MOISTURE	%	8.54
CARBONDIOXIDE	%	3.27
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.61704

### REMARK

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

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
จ-145-ค-0011



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 24, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 24, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 13, 2025
<b>SAMPLING SOURCE</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>REPORT NO.</b>	: 2025-U040811
<b>SAMPLE TYPE</b>	: STACK	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLING DATE</b>	: APRIL 24, 2025	<b>ANALYSIS NO.</b>	: T25AJ103-0007
<b>SAMPLING TIME</b>	: 11:00-11:10 HOUR		
<b>SAMPLING BY</b>	: MR NOPPASIN THANUTHAMMARAT ๖-145-๖-0036		
<b>ANALYZED BY</b>	: MR NOPPASIN THANUTHAMMARAT ๖-145-๖-0036		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			FCCU REGENERATOR T25AJ103-0007	
			ACTUAL OXYGEN	7% OXYGEN
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	40	131
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		FCCU REGENERATOR T25AJ103-0007
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	31.67
STACK TEMPERATURE	°C	209.67
DIAMETER	m	3.8
GAS VELOCITY	m/s	14.32
FLOW RATE	Nm³/hr	329,034.05
OXYGEN	%	16.66
MOISTURE	%	8.54
CARBONDIOXIDE	%	3.27
VOLUME OF DRY GAS AT STP	m³	0.61704

### REMARK

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
๖-145-๖-0021





## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayoachachana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 24, 2025  
**SAMPLING TIME** : 10:50-11:20 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT  
**ANALYZED BY** : MISS SUWAN KONGTHONG

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29-MAY 6, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040920  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			FCCU REGENERATOR T25AJ103-0007	
			ACTUAL OXYGEN	7% OXYGEN
HYDROGEN CYANIDE	mg/m <sup>3</sup>	FILTERING, ION-SPECIFIC ELECTRODE METHOD (OSHA METHOD ID120)	< 0.20	< 0.20
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		FCCU REGENERATOR T25AJ103-0007
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	31.67
STACK TEMPERATURE	°C	209.67
DIAMETER	m	3.8
GAS VELOCITY	m/s	14.32
FLOW RATE	Nm <sup>3</sup> /hr	329,034.05
OXYGEN	%	16.66
MOISTURE	%	8.54
CARBONDIOXIDE	%	3.27
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.61704

**REMARK**

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

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayoachana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 25, 2025  
**SAMPLING TIME** : 10:00-11:20 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT ๓-145-๓-0036  
**ANALYZED BY** : MISS SUWAN KONGTHONG ๓-145-๓-0025

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29-MAY 6, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040816  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			COMMON STACK OF PAREX FURNACE T25AJ103-0009	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	1.34	1.88
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 1.30	< 1.30
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		COMMON STACK OF PAREX FURNACE T25AJ103-0009
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	32.58
STACK TEMPERATURE	°C	620.42
DIAMETER	m	1.71
GAS VELOCITY	m/s	22.87
FLOW RATE	Nm <sup>3</sup> /hr	52,523.69
OXYGEN	%	10.98
MOISTURE	%	16.07
CARBONDIOXIDE	%	5.65
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.60711

**REMARK**

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

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
๓-145-๓-0011



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 25, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 25, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayoachana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 13, 2025
<b>SAMPLING SOURCE</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>REPORT NO.</b>	: 2025-U040818
<b>SAMPLE TYPE</b>	: STACK	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLING DATE</b>	: APRIL 25, 2025	<b>ANALYSIS NO.</b>	: T25AJ103-0009
<b>SAMPLING TIME</b>	: 10:10-10:20 HOUR		
<b>SAMPLING BY</b>	: MR NOPPASIN THANUTHAMMARAT จ-145-จ-0036		
<b>ANALYZED BY</b>	: MR NOPPASIN THANUTHAMMARAT จ-145-จ-0036		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			COMMON STACK OF PAREX FURNACE T25AJ103-0009	
			ACTUAL OXYGEN	7% OXYGEN
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	23	32
CARBON MONOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 10, JULY 2021	< 1	< 1
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		COMMON STACK OF PAREX FURNACE T25AJ103-0009
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	32.58
STACK TEMPERATURE	°C	620.42
DIAMETER	m	1.71
GAS VELOCITY	m/s	22.87
FLOW RATE	Nm³/hr	52,523.69
OXYGEN	%	10.98
MOISTURE	%	16.07
CARBONDIOXIDE	%	5.65
VOLUME OF DRY GAS AT STP	m³	0.60711

### REMARK

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
จ-145-ค-0021







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### ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 096 650 4742 e-mail : namida.treesuramongkhochote@bangchak.co.th  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : FEBRUARY 27, 2025  
**SAMPLING TIME** : 10:10-10:46 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT จ-145-ร-0036  
**ANALYZED BY** : MISS SUWAN KONGTHONG จ-145-ร-0025  
**RECEIVED DATE** : FEBRUARY 27, 2025  
**ANALYTICAL DATE** : FEBRUARY 27-MARCH 7, 2025  
**ISSUE DATE** : MARCH 17, 2025  
**REPORT NO.** : 2025-U022386  
**WORK NO.** : 2024-008668  
**ANALYSIS NO.** : T25AE197-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			GTG-1+HRSG-1 T25AE197-0006	
			ACTUAL OXYGEN	7% OXYGEN
LEAD	mg/m <sup>3</sup>	ISOKINETIC, DIRECT AIR-ACETYLENE FLAME METHOD (US EPA METHOD 29)	< 0.004	< 0.004
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		GTG-1+HRSG-1 T25AE197-0006
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	29.58
STACK TEMPERATURE	°C	209.5
DIAMETER	m	2.95
GAS VELOCITY	m/s	10.99
FLOW RATE	Nm <sup>3</sup> /hr	150,780.69
OXYGEN	%	16.48
MOISTURE	%	9.48
CARBONDIOXIDE	%	2.56
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.997929

#### REMARK

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

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
จ-145-ร-0011

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ISO 14001:2015 CERTIFIED  
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- End of Analysis Report -



## United Analyst and Engineering Consultant Co., Ltd.

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

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

### ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 096 650 4742 e-mail : namida.treesuramongkolchote@bangchak.co.th  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**RECEIVED DATE** : FEBRUARY 27, 2025  
**SAMPLING DATE** : FEBRUARY 27, 2025  
**ANALYTICAL DATE** : FEBRUARY 27, 2025  
**SAMPLING TIME** : 10:20-10:30 HOUR  
**ISSUE DATE** : MARCH 17, 2025  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT ๓-145-๓-0036  
**REPORT NO.** : 2025-U022387  
**ANALYZED BY** : MR NOPPASIN THANUTHAMMARAT ๓-145-๓-0036  
**WORK NO.** : 2024-008668  
**ANALYSIS NO.** : T25AE197-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			GTG-1+HRSG-1 T25AE197-0006	
			ACTUAL OXYGEN	7% OXYGEN
SULPHUR DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 6C, JULY 2021	< 1	< 1
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	31	97
SAMPLE CONDITION			COMPLETE	

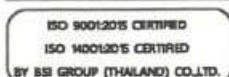
DESCRIPTION	UNIT	RESULT
		GTG-1+HRSG-1 T25AE197-0006
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	29.58
STACK TEMPERATURE	°C	209.5
DIAMETER	m	2.95
GAS VELOCITY	m/s	10.99
FLOW RATE	Nm <sup>3</sup> /hr	150,780.69
OXYGEN	%	16.48
MOISTURE	%	9.48
CARBONDIOXIDE	%	2.56
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.997929

#### REMARK

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
๓-145-๓-0021



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- End of Analysis Report -



## ANALYSIS REPORT

CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
CONTACT INFORMATION : TEL : 096 650 4742 e-mail : namida.treesuramongkhochote@bangchak.co.th  
MEASURING SOURCE : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
MEASURING TYPE : STACK  
MEASURING DATE : FEBRUARY 27, 2025  
MEASURING TIME : 10:20 HOUR  
MEASURED BY : MR NOPPASIN THANUTHAMMARAT  
RECEIVED DATE : FEBRUARY 27, 2025  
ANALYTICAL DATE : FEBRUARY 27, 2025  
ISSUE DATE : MARCH 17, 2025  
REPORT NO. : 2025-U022388  
WORK NO. : 2024-008668  
ANALYSIS NO. : T25AE197-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			GTG-1+HRSG-1 T25AE197-0006
			ACTUAL OXYGEN
TEMPERATURE	°C	TYPE S PITOT TUBE, CALCULATION (US EPA METHOD 2)	210
FLOWRATE	Nm <sup>3</sup> /hr	TYPE S PITOT TUBE, CALCULATION (US EPA METHOD 2)	150,781
OXYGEN	%	PORTABLE ANALYZER, ELECTROCHEMICAL METHOD (US EPA METHOD 3A)	16.5
SAMPLE CONDITION			COMPLETE

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR





## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 21, 2025  
**SAMPLING TIME** : 12:00-12:20 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT ๓-145-๑-0036  
**ANALYZED BY** : MISS SUWAN KONGTHONG ๓-145-๑-0025

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29-MAY 6, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040805  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			GTG-2+HRSG-2 (4001) T25AJ103-0005	
			ACTUAL OXYGEN	7% OXYGEN
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 1.30	< 1.30
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		GTG-2+HRSG-2 (4001) T25AJ103-0005
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	33.67
STACK TEMPERATURE	°C	224.83
DIAMETER	m	2.95
GAS VELOCITY	m/s	9.06
FLOW RATE	Nm³/hr	120,000.24
OXYGEN	%	16.65
MOISTURE	%	9.79
CARBONDIOXIDE	%	2.46
VOLUME OF DRY GAS AT STP	m³	0.575617

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

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
๓-145-๑-0011



## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 21, 2025  
**SAMPLING TIME** : 11:10-11:20 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT จ-145-จ-0036  
**ANALYZED BY** : MR NOPPASIN THANUTHAMMARAT จ-145-จ-0036

**RECEIVED DATE** : APRIL 21, 2025  
**ANALYTICAL DATE** : APRIL 21, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040806  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			GTG-2+HRSG-2 (4001) T25AJ103-0005	
			ACTUAL OXYGEN	7% OXYGEN
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	22	72
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		GTG-2+HRSG-2 (4001) T25AJ103-0005
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	33.67
STACK TEMPERATURE	°C	224.83
DIAMETER	m	2.95
GAS VELOCITY	m/s	9.06
FLOW RATE	Nm³/hr	120,000.24
OXYGEN	%	16.65
MOISTURE	%	9.79
CARBONDIOXIDE	%	2.46
VOLUME OF DRY GAS AT STP	m³	0.575617

REMARK

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
จ-145-ด-0021



## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 21, 2025  
**SAMPLING TIME** : 11:40-12:00 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT ๖-145-๖-0036  
**ANALYZED BY** : MISS SUWAN KONGTHONG ๖-145-๓-0025

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29-MAY 6, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040807  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			GTG-3+HRSG-3 (5101) T25AJ103-0006	
			ACTUAL OXYGEN	7% OXYGEN
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 1.30	< 1.30
<b>SAMPLE CONDITION</b>			COMPLETE	

DESCRIPTION	UNIT	RESULT
		GTG-3+HRSG-3 (5101) T25AJ103-0006
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	31.67
STACK TEMPERATURE	°C	209.67
DIAMETER	m	3.8
GAS VELOCITY	m/s	14.32
FLOW RATE	Nm³/hr	329,034.05
OXYGEN	%	16.66
MOISTURE	%	8.54
CARBONDIOXIDE	%	3.27
VOLUME OF DRY GAS AT STP	m³	0.61704

**REMARK**

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

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
๖-145-๓-0011



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**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 21, 2025  
**SAMPLING TIME** : 11:10-11:20 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT ๓-145-๓-0036  
**ANALYZED BY** : MR NOPPASIN THANUTHAMMARAT ๓-145-๓-0036  
**RECEIVED DATE** : APRIL 21, 2025  
**ANALYTICAL DATE** : APRIL 21, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040809  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			GTG-3+HRSG-3 (5101) T25AJ103-0006	
			ACTUAL OXYGEN	7% OXYGEN
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	29	95
<b>SAMPLE CONDITION</b>			COMPLETE	

DESCRIPTION	UNIT	RESULT
		GTG-3+HRSG-3 (5101) T25AJ103-0006
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	31.67
STACK TEMPERATURE	°C	209.67
DIAMETER	m	3.8
GAS VELOCITY	m/s	14.32
FLOW RATE	Nm³/hr	329,034.05
OXYGEN	%	16.66
MOISTURE	%	8.54
CARBONDIOXIDE	%	3.27
VOLUME OF DRY GAS AT STP	m³	0.61704

**REMARK**

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
๓-145-๓-0021



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## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 25, 2025  
**SAMPLING TIME** : 10:40-11:00 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT จ-145-จ-0036  
**ANALYZED BY** : MISS SUWAN KONGTHONG จ-145-ก-0025

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29-MAY 6, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040802  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			CCR PLATFOMER FURNACE (F-3401S) T25AJ103-0004	
			ACTUAL OXYGEN	7% OXYGEN
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 1.30	< 1.30
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		CCR PLATFOMER FURNACE (F-3401S) T25AJ103-0004
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	30.33
STACK TEMPERATURE	°C	181
DIAMETER	m	2.52
GAS VELOCITY	m/s	9.34
FLOW RATE	Nm³/hr	94,357.44
OXYGEN	%	3.23
MOISTURE	%	13.96
CARBONDIOXIDE	%	10.07
VOLUME OF DRY GAS AT STP	m³	0.609628

**REMARK**

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

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
จ-145-ก-0011



## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 25, 2025  
**SAMPLING TIME** : 10:10-10:20 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT ๖-145-๔-0036  
**ANALYZED BY** : MR NOPPASIN THANUTHAMMARAT ๖-145-๔-0036

**RECEIVED DATE** : APRIL 25, 2025  
**ANALYTICAL DATE** : APRIL 25, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040803  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			CCR PLATFOMER FURNACE (F-3401S) T25AJ103-0004	
			ACTUAL OXYGEN	7% OXYGEN
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	43	34
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		CCR PLATFOMER FURNACE (F-3401S) T25AJ103-0004
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	30.33
STACK TEMPERATURE	°C	181
DIAMETER	m	2.52
GAS VELOCITY	m/s	9.34
FLOW RATE	Nm³/hr	94,357.44
OXYGEN	%	3.23
MOISTURE	%	13.96
CARBONDIOXIDE	%	10.07
VOLUME OF DRY GAS AT STP	m³	0.609628

**REMARK**

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
๖-145-๔-0021






## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 29, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 29-MAY 6, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 13, 2025
<b>SAMPLING SOURCE</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>REPORT NO.</b>	: 2025-U040800
<b>SAMPLE TYPE</b>	: STACK	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLING DATE</b>	: APRIL 24, 2025	<b>ANALYSIS NO.</b>	: T25AJ103-0003
<b>SAMPLING TIME</b>	: 10:30-11:12 HOUR		
<b>SAMPLING BY</b>	: MR NOPPASIN THANUTHAMMARAT ๓-145-๑-0036		
<b>ANALYZED BY</b>	: MISS SUWAN KONGTHONG ๓-145-๑-0025		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			COMMON STACK OF APS2/VPS2 T25AJ103-0003	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	19.3	15.6
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 1.30	< 1.30
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		COMMON STACK OF APS2/VPS2 T25AJ103-0003
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	30
STACK TEMPERATURE	°C	342.58
DIAMETER	m	3.2
GAS VELOCITY	m/s	13.77
FLOW RATE	Nm <sup>3</sup> /hr	163,152.68
OXYGEN	%	3.7
MOISTURE	%	14.82
CARBONDIOXIDE	%	9.8
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.977097

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

  
.....  
(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
๓-145-๑-0011



## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 24, 2025  
**SAMPLING TIME** : 10:40-10:50 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT ๖-145-๖-0036  
**ANALYZED BY** : MR NOPPASIN THANUTHAMMARAT ๖-145-๖-0036

**RECEIVED DATE** : APRIL 24, 2025  
**ANALYTICAL DATE** : APRIL 24, 2025  
**ISSUE DATE** : MAY 13, 2025  
**REPORT NO.** : 2025-U040801  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			COMMON STACK OF APS2/VP52 T25AJ103-0003	
			ACTUAL OXYGEN	7% OXYGEN
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	60	48
CARBON MONOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 10, JULY 2021	1	< 1
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		COMMON STACK OF APS2/VP52 T25AJ103-0003
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	30
STACK TEMPERATURE	°C	342.58
DIAMETER	m	3.2
GAS VELOCITY	m/s	13.77
FLOW RATE	Nm³/hr	163,152.68
OXYGEN	%	3.7
MOISTURE	%	14.82
CARBONDIOXIDE	%	9.8
VOLUME OF DRY GAS AT STP	m³	0.977097

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
๖-145-๖-0021



## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com  
**SAMPLING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : APRIL 23, 2025  
**SAMPLING TIME** : 10:30-11:50 HOUR  
**SAMPLING BY** : MR NOPPASIN THANUTHAMMARAT จ-145-จ-0036  
**ANALYZED BY** : MISS SUWAN KONGTHONG จ-145-ค-0025

**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29-MAY 6, 2025  
**ISSUE DATE** : JULY 7, 2025  
**REPORT NO.** : 2025-U040813  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ103-0008

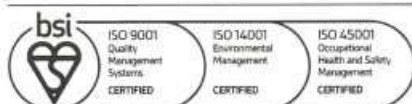
PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			SRU/TGCU INCINERATOR T25AJ103-0008	
			ACTUAL OXYGEN	7% OXYGEN
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	304	426
HYDROGEN SULPHIDE	ppm	ABSORPTION, IODOMETRIC METHOD AT SITE (US EPA METHOD 11)	< 5.75	< 5.75
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		SRU/TGCU INCINERATOR T25AJ103-0008
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	32.58
STACK TEMPERATURE	°C	620.42
DIAMETER	m	1.71
GAS VELOCITY	m/s	22.87
FLOW RATE	Nm³/hr	52,523.69
OXYGEN	%	10.98
MOISTURE	%	16.07
CARBONDIOXIDE	%	5.65
VOLUME OF DRY GAS AT STP	m³	0.60711

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

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
จ-145-ค-0011



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- End of Analysis Report -



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 23, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 23, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: JULY 7, 2025
<b>SAMPLING SOURCE</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>REPORT NO.</b>	: 2025-U040814
<b>SAMPLE TYPE</b>	: STACK	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLING DATE</b>	: APRIL 23, 2025	<b>ANALYSIS NO.</b>	: T25AJ103-0008
<b>SAMPLING TIME</b>	: 10:00-10:10 HOUR		
<b>SAMPLING BY</b>	: MR NOPPASIN THANUTHAMMARAT ๓-145-๓-0036		
<b>ANALYZED BY</b>	: MR NOPPASIN THANUTHAMMARAT ๓-145-๓-0036		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			SRU/TGCU INCINERATOR T25AJ103-0008	
			ACTUAL OXYGEN	7% OXYGEN
OXIDES OF NITROGEN AS NITROGEN DIOXIDE	ppm	U.S. EPA, CODE OF FEDERAL REGULATIONS, 40 CFR PART 60 APPENDIX A, METHOD 7E, JULY 2021	8	11
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		SRU/TGCU INCINERATOR T25AJ103-0008
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	32.58
STACK TEMPERATURE	°C	620.42
DIAMETER	m	1.71
GAS VELOCITY	m/s	22.87
FLOW RATE	Nm³/hr	52,523.69
OXYGEN	%	10.98
MOISTURE	%	16.07
CARBONDIOXIDE	%	5.65
VOLUME OF DRY GAS AT STP	m³	0.60711

### REMARK

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
๓-145-๓-0021



ระดับเสียงในบรรยากาศ

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## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19-22, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 19-22, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 6, 2025
<b>MEASURING SOURCE</b>	: BAN KON CHA-NANG	<b>REPORT NO.</b>	: 2025-U038656
<b>MEASURING TYPE</b>	: AMBIENT (NOISE)	<b>WORK NO.</b>	: 2019-002022
<b>MEASURING DATE</b>	: APRIL 19-22, 2025	<b>ANALYSIS NO.</b>	: T25AJ093-0001 - T25AJ093-0003
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: INTEGRATED SOUND LEVEL METER**		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME*	RESULT dB(A)		
	BAN KON CHA-NANG		
	APRIL 19-20, 2025		
	T25AJ093-0001		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	52.0	71.2	43.2
08:00-09:00 HOUR	51.2	64.0	43.3
09:00-10:00 HOUR	53.4	65.2	42.9
10:00-11:00 HOUR	53.0	69.0	43.8
11:00-12:00 HOUR	48.6	65.8	43.6
12:00-13:00 HOUR	52.4	70.8	44.1
13:00-14:00 HOUR	52.3	65.8	43.7
14:00-15:00 HOUR	53.4	71.7	43.5
15:00-16:00 HOUR	55.9	78.2	43.7
16:00-17:00 HOUR	52.2	67.7	44.0
17:00-18:00 HOUR	48.4	65.1	43.7
18:00-19:00 HOUR	51.1	66.8	43.2
19:00-20:00 HOUR	48.9	68.2	42.5
20:00-21:00 HOUR	47.6	68.0	41.9
21:00-22:00 HOUR	49.7	68.6	43.3
22:00-23:00 HOUR	47.0	66.0	43.4
23:00-00:00 HOUR	44.4	63.0	43.4
00:00-01:00 HOUR	43.7	50.2	43.0
01:00-02:00 HOUR	43.9	47.3	43.5
02:00-03:00 HOUR	46.2	62.9	43.7
03:00-04:00 HOUR	46.7	67.6	43.2
04:00-05:00 HOUR	44.9	59.7	43.0
05:00-06:00 HOUR	48.5	69.7	43.0
06:00-07:00 HOUR	43.5	52.3	42.8
L <sub>Aeq</sub> 24 hours		50.4	
L <sub>Adn</sub>		53.7	





TIME*	RESULT dB(A)		
	BAN KON CHA-NANG		
	APRIL 20-21, 2025		
	T25AJ093-0002		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	43.6	54.2	42.9
08:00-09:00 HOUR	44.4	60.2	43.0
09:00-10:00 HOUR	46.0	63.3	43.0
10:00-11:00 HOUR	44.5	57.3	43.3
11:00-12:00 HOUR	46.4	64.0	43.6
12:00-13:00 HOUR	43.5	53.3	42.8
13:00-14:00 HOUR	47.7	65.0	43.2
14:00-15:00 HOUR	48.4	65.9	43.4
15:00-16:00 HOUR	47.0	61.1	42.9
16:00-17:00 HOUR	48.9	65.5	43.1
17:00-18:00 HOUR	45.9	59.8	43.0
18:00-19:00 HOUR	52.9	70.8	44.1
19:00-20:00 HOUR	57.8	82.9	47.1
20:00-21:00 HOUR	57.6	73.0	48.7
21:00-22:00 HOUR	57.3	74.6	48.8
22:00-23:00 HOUR	55.6	69.8	49.3
23:00-00:00 HOUR	54.7	74.2	48.9
00:00-01:00 HOUR	54.3	67.3	47.8
01:00-02:00 HOUR	55.2	67.7	47.6
02:00-03:00 HOUR	57.2	78.9	47.8
03:00-04:00 HOUR	57.2	74.0	47.6
04:00-05:00 HOUR	57.8	79.3	47.5
05:00-06:00 HOUR	55.4	76.7	47.3
06:00-07:00 HOUR	54.6	78.8	46.8
L <sub>Aeq</sub> 24 hours		53.9	
L <sub>Adn</sub>		62.0	

TIME*	RESULT dB(A)		
	BAN KON CHA-NANG		
	APRIL 21-22, 2025		
	T25AJ093-0003		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	53.2	68.3	47.5
08:00-09:00 HOUR	55.0	73.2	45.4
09:00-10:00 HOUR	54.9	74.7	49.6
10:00-11:00 HOUR	54.7	71.3	48.5
11:00-12:00 HOUR	53.1	66.9	48.0
12:00-13:00 HOUR	54.6	71.2	48.0
13:00-14:00 HOUR	55.6	75.7	49.8
14:00-15:00 HOUR	55.1	72.5	48.2
15:00-16:00 HOUR	54.4	73.8	48.3
16:00-17:00 HOUR	53.4	72.2	46.9
17:00-18:00 HOUR	55.8	71.9	48.6
18:00-19:00 HOUR	54.9	74.1	48.5
19:00-20:00 HOUR	54.1	69.0	47.2
20:00-21:00 HOUR	53.6	69.2	47.3
21:00-22:00 HOUR	58.1	80.4	47.1
22:00-23:00 HOUR	53.0	69.3	47.3
23:00-00:00 HOUR	53.0	65.9	46.8
00:00-01:00 HOUR	52.0	70.4	46.5
01:00-02:00 HOUR	53.1	69.9	45.9
02:00-03:00 HOUR	51.7	70.2	46.0
03:00-04:00 HOUR	52.4	72.4	45.6
04:00-05:00 HOUR	54.8	77.4	46.5
05:00-06:00 HOUR	52.5	69.1	47.2
06:00-07:00 HOUR	51.4	70.0	46.1
L <sub>Aeq</sub> 24 hours		54.2	
L <sub>Adn</sub>		59.5	

REMARK : \*\* ISO 1996-1:2016

\*\* NOTIFICATION OF NATION ENVIRONMENT BOARD NO. 15 B.E. 2540 (1997) (MARCH 12, 1977)

\*\* NOTIFICATION OF THE POLLUTION CONTROL DEPARTMENT (B.E. 2540) REGARDING THE CALCULATION METHOD FOR SOUND LEVELS, DATED AUGUST 11, B.E. 2540

\*\* NOTIFICATION OF THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT ON THE ESTABLISHMENT OF STANDARDS FOR CONTROLLING NOISE AND VIBRATION, DATED NOVEMBER 7, B.E. 2548

\*\* NOTIFICATION OF THE DEPARTMENT OF INDUSTRIAL WORKS ON THE MEASUREMENT METHOD FOR NOISE POLLUTION, 24-HOUR AVERAGE NOISE LEVEL, AND MAXIMUM NOISE LEVEL FROM INDUSTRIAL OPERATIONS, B.E. 2553, DATED DECEMBER 20, B.E. 2553

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: APRIL 19-22, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: APRIL 19-22, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2416 e-mail : sitanun.chayochaichana@exxonmobil.com	<b>ISSUE DATE</b>	: MAY 6, 2025
<b>MEASURING SOURCE</b>	: BAN NHONG AUNG	<b>REPORT NO.</b>	: 2025-U038658
<b>MEASURING TYPE</b>	: AMBIENT (NOISE)	<b>WORK NO.</b>	: 2019-002022
<b>MEASURING DATE</b>	: APRIL 19-22, 2025	<b>ANALYSIS NO.</b>	: T25AJ093-0004 - T25AJ093-0006
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: INTEGRATED SOUND LEVEL METER**		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME*	RESULT dB(A)		
	BAN NHONG AUNG		
	APRIL 19-20, 2025		
	T25AJ093-0004		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	52.4	83.6	45.6
08:00-09:00 HOUR	49.6	71.4	45.0
09:00-10:00 HOUR	50.2	73.4	46.1
10:00-11:00 HOUR	50.0	74.2	46.2
11:00-12:00 HOUR	51.0	77.4	45.6
12:00-13:00 HOUR	49.7	78.0	43.2
13:00-14:00 HOUR	48.0	73.2	43.2
14:00-15:00 HOUR	49.7	73.5	42.9
15:00-16:00 HOUR	43.9	59.6	41.4
16:00-17:00 HOUR	43.8	63.2	41.6
17:00-18:00 HOUR	43.1	55.7	41.0
18:00-19:00 HOUR	42.9	63.2	40.8
19:00-20:00 HOUR	44.0	58.1	41.4
20:00-21:00 HOUR	45.8	61.8	43.7
21:00-22:00 HOUR	44.5	59.6	42.4
22:00-23:00 HOUR	44.3	56.4	42.9
23:00-00:00 HOUR	44.4	67.6	42.6
00:00-01:00 HOUR	44.3	58.7	42.9
01:00-02:00 HOUR	44.8	67.1	42.5
02:00-03:00 HOUR	54.5	66.8	43.2
03:00-04:00 HOUR	47.1	70.8	42.5
04:00-05:00 HOUR	50.5	72.3	48.1
05:00-06:00 HOUR	46.0	74.9	40.7
06:00-07:00 HOUR	46.5	68.2	40.5
L <sub>Aeq</sub> 24 hours		48.4	
L <sub>Adn</sub>		54.9	





TIME*	RESULT dB(A)		
	BAN NHONG AUNG		
	APRIL 20-21, 2025		
	T25AJ093-0005		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	45.0	68.6	40.8
08:00-09:00 HOUR	47.8	69.3	40.9
09:00-10:00 HOUR	48.4	73.3	42.3
10:00-11:00 HOUR	46.4	68.7	42.2
11:00-12:00 HOUR	50.1	73.6	42.5
12:00-13:00 HOUR	46.2	70.0	40.5
13:00-14:00 HOUR	44.2	65.8	40.8
14:00-15:00 HOUR	49.3	74.7	42.0
15:00-16:00 HOUR	43.5	57.8	41.1
16:00-17:00 HOUR	44.5	64.4	42.2
17:00-18:00 HOUR	43.8	56.7	41.7
18:00-19:00 HOUR	45.8	58.0	43.9
19:00-20:00 HOUR	47.9	62.8	47.1
20:00-21:00 HOUR	48.5	57.6	47.3
21:00-22:00 HOUR	48.2	66.4	46.8
22:00-23:00 HOUR	47.7	67.9	46.1
23:00-00:00 HOUR	45.5	60.6	43.6
00:00-01:00 HOUR	46.8	68.6	43.9
01:00-02:00 HOUR	45.9	58.5	44.3
02:00-03:00 HOUR	51.2	73.0	44.9
03:00-04:00 HOUR	48.6	84.2	43.0
04:00-05:00 HOUR	48.8	73.2	44.5
05:00-06:00 HOUR	44.4	66.5	40.9
06:00-07:00 HOUR	46.9	68.8	40.6
L <sub>Aeq</sub> 24 hours		47.4	
L <sub>Adn</sub>		54.1	

TIME*	RESULT dB(A)		
	BAN NHONG AUNG		
	APRIL 21-22, 2025		
	T25AJ093-0006		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	45.5	65.2	39.7
08:00-09:00 HOUR	43.9	55.7	40.2
09:00-10:00 HOUR	45.6	66.0	39.8
10:00-11:00 HOUR	47.5	58.6	40.2
11:00-12:00 HOUR	45.6	64.2	40.9
12:00-13:00 HOUR	45.7	64.7	40.5
13:00-14:00 HOUR	51.4	68.6	46.1
14:00-15:00 HOUR	49.0	66.4	42.9
15:00-16:00 HOUR	43.0	50.7	40.8
16:00-17:00 HOUR	43.8	60.5	41.7
17:00-18:00 HOUR	43.2	57.2	41.1
18:00-19:00 HOUR	43.8	51.8	41.8
19:00-20:00 HOUR	44.8	58.0	42.6
20:00-21:00 HOUR	43.4	56.1	41.4
21:00-22:00 HOUR	43.2	54.6	41.2
22:00-23:00 HOUR	43.2	55.9	41.1
23:00-00:00 HOUR	43.4	52.5	41.4
00:00-01:00 HOUR	42.9	54.5	40.7
01:00-02:00 HOUR	42.2	52.5	40.1
02:00-03:00 HOUR	52.7	76.6	44.7
03:00-04:00 HOUR	45.2	65.2	40.9
04:00-05:00 HOUR	49.1	59.5	46.1
05:00-06:00 HOUR	49.4	64.7	47.4
06:00-07:00 HOUR	47.7	73.5	40.7
L <sub>Aeq</sub> 24 hours		46.7	
L <sub>Adn</sub>		53.9	

REMARK : \*\* ISO 1996-1:2016

\*\* NOTIFICATION OF NATION ENVIRONMENT BOARD NO. 15 B.E. 2540 (1997) (MARCH 12, 1977)

\*\* NOTIFICATION OF THE POLLUTION CONTROL DEPARTMENT (B.E. 2540) REGARDING THE CALCULATION METHOD FOR SOUND LEVELS, DATED AUGUST 11, B.E. 2540

\*\* NOTIFICATION OF THE MINISTRY OF NATURAL RESOURCES AND ENVIRONMENT ON THE ESTABLISHMENT OF STANDARDS FOR CONTROLLING NOISE AND VIBRATION, DATED NOVEMBER 7, B.E. 2548

\*\* NOTIFICATION OF THE DEPARTMENT OF INDUSTRIAL WORKS ON THE MEASUREMENT METHOD FOR NOISE POLLUTION, 24-HOUR AVERAGE NOISE LEVEL, AND MAXIMUM NOISE LEVEL FROM INDUSTRIAL OPERATIONS, B.E. 2553, DATED DECEMBER 20, B.E. 2553

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

คุณภาพน้ำทิ้ง

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## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : JANUARY 2, 2025  
**SAMPLING TIME** : 11:10 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : JANUARY 3, 2025  
**ANALYTICAL DATE** : JANUARY 3-8, 2025  
**ISSUE DATE** : JANUARY 13, 2025  
**REPORT NO.** : 2025-U002827  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AA026-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AA026-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500 -H <sup>+</sup> B)	6.8 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	37.4	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	213	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	268	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	110	-	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	5,640	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD(SM: PART 4500 -S <sup>2-</sup> D)	0.07	-	0.02
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	38	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AA026-0001		
CYANIDE <sup>c</sup>	mg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN <sup>-</sup> C AND PART 4500-CN <sup>-</sup> E)	0.012	0.005	0.020
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			GREY/TURBID BROWN		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

CYANIDE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-01-001

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>PROJECT NAME</b>	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY			<b>RECEIVED DATE</b>	: FEBRUARY 7, 2025
<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED			<b>ANALYTICAL DATE</b>	: FEBRUARY 7-14, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230			<b>ISSUE DATE</b>	: FEBRUARY 18, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th			<b>REPORT NO.</b>	: 2025-U013043
<b>SAMPLING SOURCE</b>	: -			<b>WORK NO.</b>	: 2019-002022
<b>SAMPLE TYPE</b>	: WASTEWATER			<b>ANALYSIS NO.</b>	: T25AC544-0001
<b>SAMPLING DATE</b>	: FEBRUARY 6, 2025				
<b>SAMPLING TIME</b>	: 09:10 HOUR				
<b>SAMPLING METHOD °</b>	: GRAB				
<b>SAMPLING BY °</b>	: MR THANADET WANSANOR				
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM				

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AC544-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	6.5 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	38.2	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	331	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	468	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	73.9	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	6,240	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	1.94	-	0.02
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	24	-	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AC544-0001		
CYANIDE <sup>c</sup>	mg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN <sup>-</sup> C AND PART 4500-CN <sup>-</sup> E)	< 0.005	0.005	0.020
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			BROWN/TURBID BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

RELEASE ORDER NO. : EV-06-02-002

*Wilailak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : MARCH 6, 2025  
**SAMPLING TIME** : 08:50 HOUR  
**SAMPLING METHOD <sup>o</sup>** : GRAB  
**SAMPLING BY <sup>o</sup>** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : MARCH 7, 2025  
**ANALYTICAL DATE** : MARCH 7-12, 2025  
**ISSUE DATE** : MARCH 18, 2025  
**REPORT NO.** : 2025-U022590  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AE889-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AE889-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500 -H <sup>+</sup> B)	6.8 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	37.5	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	243	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	348	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	97.1	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	6,071	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD(SM: PART 4500 -S <sup>2-</sup> D)	0.42	-	0.02
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	25	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AE889-0001		
CYANIDE <sup>c</sup>	mg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN <sup>-</sup> C AND PART 4500-CN <sup>-</sup> E)	0.022	0.005	0.020
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID GREY		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

RELEASE ORDER NO. : EV-06-03-002

*Wilailak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : APRIL 3, 2025  
**SAMPLING TIME** : 09:35 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : APRIL 3, 2025  
**ANALYTICAL DATE** : APRIL 3-10, 2025  
**ISSUE DATE** : APRIL 18, 2025  
**REPORT NO.** : 2025-U032955  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AH269-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AH269-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500 -H <sup>+</sup> B)	8.2 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	39.5	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	202	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	376	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	26.1	-	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,707	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD(SM: PART 4500 -S <sup>2-</sup> D)	0.12	-	0.02
CYANIDE <sup>c</sup>	mg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN <sup>-</sup> C AND PART 4500-CN <sup>-</sup> E)	0.024	0.005	0.020
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	16	-	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

RELEASE ORDER NO. : EV-03-04-001

*Wilailak Sriskul*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : MAY 2, 2025  
**SAMPLING TIME** : 08:50 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : MAY 3, 2025  
**ANALYTICAL DATE** : MAY 3-9, 2025  
**ISSUE DATE** : MAY 15, 2025  
**REPORT NO.** : 2025-U041929  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ464-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AJ464-0002		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500 -H <sup>+</sup> B)	7.5 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	35.9	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	332	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	508	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	118	-	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,669	-	25
SULPHIDE <sup>b</sup>	mg/L	METHYLENE BLUE METHOD(SM: PART 4500 -S <sup>2-</sup> D)	0.28	-	0.02
CYANIDE <sup>c</sup>	mg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN <sup>-</sup> C AND PART 4500-CN <sup>-</sup> E)	< 0.020	0.005	0.020
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	37	-	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID YELLOW		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

RELEASE ORDER NO. : EV-02-05-001

*Wibulak Simuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : MAY 2, 2025  
**SAMPLING TIME** : 08:50 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NADNAPA KAMOLBOON

**RECEIVED DATE** : MAY 3, 2025  
**ANALYTICAL DATE** : MAY 3-11, 2025  
**ISSUE DATE** : MAY 16, 2025  
**REPORT NO.** : 2025-U041928  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ464-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AJ464-0001		
METALS					
MERCURY	mg/L Hg	COLD VAPOUR AAS METHOD (SM: PART 3112 B)	< 0.0005	0.0005	0.0020
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/TURBID		
SEDIMENT			YELLOW		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

RELEASE ORDER NO. : EV-02-05-001

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR





## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : JUNE 16, 2025  
**SAMPLING TIME** : 09:30 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : JUNE 17, 2025  
**ANALYTICAL DATE** : JUNE 17-23, 2025  
**ISSUE DATE** : JUNE 26, 2025  
**REPORT NO.** : 2025-U057613  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AN152-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW001 : INLET API T25AN152-0001		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500 -H <sup>+</sup> B)	7.2 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	36.4	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	286	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	599	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	292	-	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	4,840	-	25
SULPHIDE <sup>b</sup>	mg/L	METHYLENE BLUE METHOD(SM: PART 4500 -S <sup>2-</sup> D)	0.16	-	0.02
CYANIDE <sup>c</sup>	mg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN: C AND PART 4500-CN: E)	0.031	0.005	0.020
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	142	-	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			BROWN/TURBID BROWN		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

RELEASE ORDER NO. : EV-16-06-004

*Wilailak Srirach*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : MAY 2, 2025  
**SAMPLING TIME** : 09:40 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : MAY 3, 2025  
**ANALYTICAL DATE** : MAY 3-9, 2025  
**ISSUE DATE** : MAY 15, 2025  
**REPORT NO.** : 2025-U041932  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ464-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW016 : CLARIFIER (SUPERNATANT) T25AJ464-0005		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500 -H <sup>+</sup> B)	7.5 (25°C)	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	6.1	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	88.5	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	17.7	-	5.0
AMMONIA <sup>c</sup>	mg/L NH <sub>3</sub>	KJELDAHL (SM: PART 4500-NH <sub>3</sub> B AND PART 4500-NH <sub>3</sub> C) AND CALCULATION METHOD	47.7	1.2	6.1
PHOSPHATE <sup>c</sup>	mg/L	VANADOMOLYBDOPHOSPHORIC ACID COLOURIMETRIC METHOD (SM: PART 4500-P C)	104	0.03	0.15
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	4	-	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

RELEASE ORDER NO. : EV-02-05-001

*Wilailak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR





## ANALYSIS REPORT

<b>PROJECT NAME</b>	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	<b>RECEIVED DATE</b>	: MAY 3, 2025
<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>ANALYTICAL DATE</b>	: MAY 3-8, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ISSUE DATE</b>	: MAY 16, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	<b>REPORT NO.</b>	: 2025-U041933
<b>SAMPLING SOURCE</b>	: -	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLE TYPE</b>	: WASTEWATER	<b>ANALYSIS NO.</b>	: T25AJ464-0006
<b>SAMPLING DATE</b>	: MAY 2, 2025		
<b>SAMPLING TIME</b>	: 12:20 HOUR		
<b>SAMPLING METHOD <sup>c</sup></b>	: GRAB		
<b>SAMPLING BY <sup>c</sup></b>	: MR THANADET WANSANOR		
<b>ANALYZED BY</b>	: MISS AKSARIN BUNKONG		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	LIMIT OF QUANTITATION (LOQ)
			LBW013 : SEDIMENTATION ZONE 2 T25AJ464-0006	
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	10.5	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	69.2	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	19.8	5.0
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

RELEASE ORDER NO. : EV-02-05-001

  
.....  
(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR





## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JANUARY 2, 2025  
**SAMPLING TIME** : 10:50 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : JANUARY 3, 2025  
**ANALYTICAL DATE** : JANUARY 3-8, 2025  
**ISSUE DATE** : JANUARY 13, 2025  
**REPORT NO.** : 2025-U002831  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AA026-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AA026-0005		
pH °	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.6 (25°C)	-	-
TEMPERATURE °	°C	THERMOMETER (AT SITE) SM: PART 2550 B	27.3	-	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	67.7	-	40.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	9.4	-	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,780	-	25
SULPHIDE °	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	< 0.02	-	0.02
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.8	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AA026-0005		
CYANIDE <sup>a</sup>	mg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN <sup>-</sup> C AND PART 4500-CN <sup>-</sup> E)	< 0.005	0.005	0.020
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF DETECTION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-01-001



(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : FEBRUARY 6, 2025  
**SAMPLING TIME** : 11:15 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : FEBRUARY 7, 2025  
**ANALYTICAL DATE** : FEBRUARY 7-14, 2025  
**ISSUE DATE** : FEBRUARY 18, 2025  
**REPORT NO.** : 2025-U013048  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AC544-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AC544-0005		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.7 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	28.9	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.3	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	85.3	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	7.9	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	38,820	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	< 0.02	-	0.02
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.7	-	3

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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AC544-0005		
CYANIDE <sup>c</sup>	mg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN <sup>-</sup> C AND PART 4500-CN <sup>-</sup> E)	< 0.005	0.005	0.020
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-02-002

*Wilailak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>PROJECT NAME</b>	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY			<b>RECEIVED DATE</b>	: MARCH 7, 2025
<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED			<b>ANALYTICAL DATE</b>	: MARCH 7-12, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230			<b>ISSUE DATE</b>	: MARCH 18, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th			<b>REPORT NO.</b>	: 2025-U022596
<b>SAMPLING SOURCE</b>	: -			<b>WORK NO.</b>	: 2019-002022
<b>SAMPLE TYPE</b>	: EFFLUENT			<b>ANALYSIS NO.</b>	: T25AE889-0006
<b>SAMPLING DATE</b>	: MARCH 6, 2025				
<b>SAMPLING TIME</b>	: 09:40 HOUR				
<b>SAMPLING METHOD <sup>c</sup></b>	: GRAB				
<b>SAMPLING BY <sup>c</sup></b>	: MR THANADET WANSANOR				
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM				

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AE889-0006		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.8 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	32.5	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	24	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	88.0	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	24.5	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	39,320	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	0.03	-	0.02
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.8	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AE889-0006		
CYANIDE <sup>c</sup>	mg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN: C AND PART 4500-CN: E)	< 0.005	0.005	0.020
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.  
RELEASE ORDER NO. : EV-06-03-002

*Wilailak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : APRIL 3, 2025  
**SAMPLING TIME** : 09:50 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : APRIL 3, 2025  
**ANALYTICAL DATE** : APRIL 3-10, 2025  
**ISSUE DATE** : APRIL 18, 2025  
**REPORT NO.** : 2025-U032964  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AH269-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AH269-0005		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.9 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.1	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	87.1	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	6.9	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	36,060	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2</sup> D)	0.02	-	0.02
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	1.4	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AH269-0005		
CYANIDE <sup>c</sup>	mg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN <sup>-</sup> C AND PART 4500-CN <sup>-</sup> E)	< 0.005	0.005	0.020
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-03-04-001

*Wibubk Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 2, 2025  
**SAMPLING TIME** : 09:30 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : MAY 3, 2025  
**ANALYTICAL DATE** : MAY 3-9, 2025  
**ISSUE DATE** : MAY 16, 2025  
**REPORT NO.** : 2025-U041934  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ464-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AJ464-0007		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.8 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.5	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	93.4	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	12.6	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	38,580	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	< 0.02	-	0.02
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	-	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AJ464-0007		
CYANIDE <sup>c</sup>	mg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN C AND PART 4500-CN E)	< 0.005	0.005	0.020
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.  
RELEASE ORDER NO. : EV-02-05-001

*Wibulak Sinsuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : MAY 2, 2025  
**SAMPLING TIME** : 09:30 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NADNAPA KAMOLBOON

**RECEIVED DATE** : MAY 3, 2025  
**ANALYTICAL DATE** : MAY 3-11, 2025  
**ISSUE DATE** : MAY 16, 2025  
**REPORT NO.** : 2025-U041935  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ464-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AJ464-0008		
METALS					
MERCURY	mg/L Hg	COLD VAPOUR AAS METHOD (SM; PART 3112 B)	< 0.0005	0.0005	0.0020
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			WHITE/TURBID		
SEDIMENT			WHITE		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

RELEASE ORDER NO. : EV-02-05-001

(MR BHUCHONK PANICHLERTUMPI)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

<b>PROJECT NAME</b>	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	<b>RECEIVED DATE</b>	: JUNE 17, 2025
<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>ANALYTICAL DATE</b>	: JUNE 17-23, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ISSUE DATE</b>	: JUNE 26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	<b>REPORT NO.</b>	: 2025-U057623
<b>SAMPLING SOURCE</b>	: -	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T25AN152-0005
<b>SAMPLING DATE</b>	: JUNE 16, 2025		
<b>SAMPLING TIME</b>	: 10:00 HOUR		
<b>SAMPLING METHOD °</b>	: GRAB		
<b>SAMPLING BY °</b>	: MR THANADET WANSANOR		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AN152-0005		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.7 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.9	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	72.0	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	11.5	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	32,560	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	< 0.02	-	0.02
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	1.2	-	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW004 : OP OUTLET T25AN152-0005		
CYANIDE <sup>c</sup>	mg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN <sup>-</sup> C AND PART 4500-CN <sup>-</sup> E)	< 0.005	0.005	0.020
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-16-06-004

*Wilailak Sriruk*

(MISS WILAILAK SRIRUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JANUARY 2, 2025  
**SAMPLING TIME** : 10:30 HOUR  
**SAMPLING METHOD <sup>c</sup>** : GRAB  
**SAMPLING BY <sup>c</sup>** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : JANUARY 3, 2025  
**ANALYTICAL DATE** : JANUARY 3-8, 2025  
**ISSUE DATE** : JANUARY 13, 2025  
**REPORT NO.** : 2025-U002832  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AA026-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AA026-0006		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.7 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.6	-	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	34.0	0.1	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	80.3	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	11.3	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,960	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	< 0.02	-	0.02
NITRATE <sup>c</sup>	mg/L NO <sub>3</sub> <sup>-</sup>	CADMIUM REDUCTION METHOD (SM: PART 4500-NO <sub>3</sub> <sup>-</sup> E)	3.90	0.09	-
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.7	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AA026-0006		
METALS					
LEAD °	mg/L Pb	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

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

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF DETECTION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-01-001

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : FEBRUARY 6, 2025  
**SAMPLING TIME** : 11:10 HOUR  
**SAMPLING METHOD °** : GRAB  
**SAMPLING BY °** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : FEBRUARY 7, 2025  
**ANALYTICAL DATE** : FEBRUARY 7-13, 2025  
**ISSUE DATE** : FEBRUARY 18, 2025  
**REPORT NO.** : 2025-U013049  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AC544-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AC544-0006		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.8 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	33.3	-	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	35.6	0.1	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.6	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	80.5	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	7.3	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	38,940	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	< 0.02	-	0.02
NITRATE <sup>c</sup>	mg/L NO <sub>3</sub>	CADMIUM REDUCTION METHOD (SM: PART 4500-NO <sub>3</sub> <sup>-</sup> E)	16.7	0.09	0.50
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.5	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AC544-0006		
METALS					
LEAD <sup>c</sup>	mg/L Pb	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-02-002

*Wibailak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>PROJECT NAME</b>	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	<b>RECEIVED DATE</b>	: MARCH 7, 2025
<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>ANALYTICAL DATE</b>	: MARCH 7-12, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ISSUE DATE</b>	: MARCH 18, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	<b>REPORT NO.</b>	: 2025-U022599
<b>SAMPLING SOURCE</b>	: -	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T25AE889-0008
<b>SAMPLING DATE</b>	: MARCH 6, 2025		
<b>SAMPLING TIME</b>	: 10:10 HOUR		
<b>SAMPLING METHOD <sup>c</sup></b>	: GRAB		
<b>SAMPLING BY <sup>c</sup></b>	: MR THANADET WANSANOR		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AE889-0008		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.8 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	33.9	-	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	27.8	0.1	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	81.6	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	10.4	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	40,480	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	0.02	-	0.02
NITRATE <sup>c</sup>	mg/L NO <sub>3</sub>	CADMIUM REDUCTION METHOD (SM: PART 4500-NO <sub>3</sub> E)	10.2	0.09	0.50
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.8	-	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AE889-0008		
METALS					
LEAD <sup>c</sup>	mg/L Pb	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.  
RELEASE ORDER NO. : EV-06-03-002

*Wilailak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>PROJECT NAME</b>	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	<b>RECEIVED DATE</b>	: APRIL 3, 2025
<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>ANALYTICAL DATE</b>	: APRIL 3-16, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ISSUE DATE</b>	: APRIL 18, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	<b>REPORT NO.</b>	: 2025-U032965
<b>SAMPLING SOURCE</b>	: -	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T25AH269-0006
<b>SAMPLING DATE</b>	: APRIL 3, 2025		
<b>SAMPLING TIME</b>	: 10:10 HOUR		
<b>SAMPLING METHOD °</b>	: GRAB		
<b>SAMPLING BY °</b>	: MR THANADET WANSANOR		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AH269-0006		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	8.0 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	36.8	-	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	36.3	0.1	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	65.0	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	12.3	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	36,260	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	0.02	-	0.02
NITRATE <sup>c</sup>	mg/L NO <sub>3</sub> <sup>-</sup>	CADMIUM REDUCTION METHOD (SM: PART 4500-NO <sub>3</sub> <sup>-</sup> E)	20.1	0.09	0.50
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.5	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AH269-0006		
METALS					
LEAD <sup>c</sup>	mg/L Pb	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-03-04-001

*Wilailak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

<b>PROJECT NAME</b>	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	<b>RECEIVED DATE</b>	: MAY 3, 2025
<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>ANALYTICAL DATE</b>	: MAY 3-9, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ISSUE DATE</b>	: MAY 16, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	<b>REPORT NO.</b>	: 2025-U041936
<b>SAMPLING SOURCE</b>	: -	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T25AJ464-0009
<b>SAMPLING DATE</b>	: MAY 2, 2025		
<b>SAMPLING TIME</b>	: 09:55 HOUR		
<b>SAMPLING METHOD °</b>	: GRAB		
<b>SAMPLING BY °</b>	: MR THANADET WANSANOR		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AJ464-0009		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.8 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	33.8	-	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	34.4	0.1	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	85.3	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	11.1	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	38,800	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	< 0.02	-	0.02
NITRATE <sup>c</sup>	mg/L NO <sub>3</sub>	CADMIUM REDUCTION METHOD (SM: PART 4500-NO <sub>3</sub> E)	2.39	0.09	0.50
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AJ464-0009		
METALS					
LEAD <sup>c</sup>	mg/L Pb	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-05-001

*Wilailak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>PROJECT NAME</b>	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	<b>RECEIVED DATE</b>	: JUNE 17, 2025
<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>ANALYTICAL DATE</b>	: JUNE 17-23, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ISSUE DATE</b>	: JUNE 26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	<b>REPORT NO.</b>	: 2025-U057625
<b>SAMPLING SOURCE</b>	: -	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T25AN152-0006
<b>SAMPLING DATE</b>	: JUNE 16, 2025		
<b>SAMPLING TIME</b>	: 10:20 HOUR		
<b>SAMPLING METHOD °</b>	: GRAB		
<b>SAMPLING BY °</b>	: MR THANADET WANSANOR		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AN152-0006		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.8 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	34.7	-	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	26.4	0.1	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	78.4	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM 103 TO 105 °C (SM: PART 2540 D)	7.5	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	32,700	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	< 0.02	-	0.02
NITRATE <sup>c</sup>	mg/L NO <sub>3</sub> <sup>-</sup>	CADMIUM REDUCTION METHOD (SM: PART 4500-NO <sub>3</sub> <sup>-</sup> E)	< 0.50	0.09	0.50
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	1.4	-	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			L8W005 : REFINERY MIX T25AN152-0006		
METALS					
LEAD <sup>c</sup>	mg/L Pb	UAE.TP.HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-16-06-004

*Wibibk Smuk*  
(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>PROJECT NAME</b>	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	<b>RECEIVED DATE</b>	: JUNE 17, 2025
<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>ANALYTICAL DATE</b>	: JUNE 17-23, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ISSUE DATE</b>	: JUNE 26, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	<b>REPORT NO.</b>	: 2025-U057625
<b>SAMPLING SOURCE</b>	: -	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLE TYPE</b>	: EFFLUENT	<b>ANALYSIS NO.</b>	: T25AN152-0006
<b>SAMPLING DATE</b>	: JUNE 16, 2025		
<b>SAMPLING TIME</b>	: 10:20 HOUR		
<b>SAMPLING METHOD °</b>	: GRAB		
<b>SAMPLING BY °</b>	: MR THANADET WANSANOR		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AN152-0006		
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.8 (25°C)	-	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	34.7	-	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	26.4	0.1	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	78.4	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED FROM. 103 TO 105 °C (SM: PART 2540 D)	7.5	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	32,700	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	< 0.02	-	0.02
NITRATE <sup>c</sup>	mg/L NO <sub>3</sub>	CADMIUM REDUCTION METHOD (SM: PART 4500-NO <sub>3</sub> E)	< 0.50	0.09	0.50
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	1.4	-	3

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T25AN152-0006		
METALS					
LEAD <sup>c</sup>	mg/L Pb	UAE TP:HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			BROWN		

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

<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT NOT IN SCOPE OF ACCREDITATION

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-16-06-004

*Wibibh Smit*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR



คุณภาพน้ำทะเล

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## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SEAWATER  
**SAMPLING DATE** : JANUARY 2, 2025  
**SAMPLING TIME** : 08:45 HOUR  
**SAMPLING METHOD** : COMPOSITE  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : JANUARY 3, 2025  
**ANALYTICAL DATE** : JANUARY 3-17, 2025  
**ISSUE DATE** : JANUARY 20, 2025  
**REPORT NO.** : 2025-U004561  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AA028-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AA028-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.7 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	0.005	0.020
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	26.8	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	30.7	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.1	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.2	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	52.0	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	7.3	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	32,660	-	25
CYANIDE	µg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN <sup>-</sup> C AND PART 4500-CN <sup>-</sup> E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	14.6	0.50	-
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	10	-
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.6	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AA028-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.150	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-01-001



(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SEAWATER  
**SAMPLING DATE** : FEBRUARY 6, 2025  
**SAMPLING TIME** : 09:50 HOUR  
**SAMPLING METHOD** : COMPOSITE  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : FEBRUARY 7, 2025  
**ANALYTICAL DATE** : FEBRUARY 7-26, 2025  
**ISSUE DATE** : FEBRUARY 26, 2025  
**REPORT NO.** : 2025-U016283  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AC547-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AC547-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.8 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	0.005	0.020
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	27.4	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	30.3	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.0	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.2	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	74.0	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	7.8	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,200	-	25
CYANIDE	µg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN <sup>-</sup> C AND PART 4500-CN <sup>-</sup> E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	15.9	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.6	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AC547-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-02-002

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

<b>PROJECT NAME</b>	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	<b>RECEIVED DATE</b>	: MARCH 7, 2025
<b>CUSTOMER NAME</b>	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	<b>ANALYTICAL DATE</b>	: MARCH 7-20, 2025
<b>ADDRESS</b>	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ISSUE DATE</b>	: MARCH 25, 2025
<b>CONTACT INFORMATION</b>	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	<b>REPORT NO.</b>	: 2025-U025348
<b>SAMPLING SOURCE</b>	: -	<b>WORK NO.</b>	: 2019-002022
<b>SAMPLE TYPE</b>	: SEAWATER	<b>ANALYSIS NO.</b>	: T25AE892-0001
<b>SAMPLING DATE</b>	: MARCH 6, 2025		
<b>SAMPLING TIME</b>	: 10:30 HOUR		
<b>SAMPLING METHOD</b>	: COMPOSITE		
<b>SAMPLING BY</b>	: MR THANADET WANSANOR		
<b>ANALYZED BY</b>	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AE892-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.9 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	0.005	0.020
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	30.9	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	27.4	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	4.8	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.2	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	65.6	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	8.6	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	37,160	-	25
CYANIDE	µg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN C AND PART 4500-CN E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	10.2	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.8	-	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AE892-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			YELLOW/CLEAR		
SEDIMENT			YELLOW		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-06-03-002

*Wilailak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SEAWATER  
**SAMPLING DATE** : APRIL 3, 2025  
**SAMPLING TIME** : 10:25 HOUR  
**SAMPLING METHOD** : COMPOSITE  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : APRIL 3, 2025  
**ANALYTICAL DATE** : APRIL 3-23, 2025  
**ISSUE DATE** : APRIL 25, 2025  
**REPORT NO.** : 2025-U035948  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AH271-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AH271-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.9 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.001	0.001	0.005
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	30.2	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	30.5	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.4	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.0	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	63.4	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	7.8	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	35,620	-	25
CYANIDE	µg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN C AND PART 4500-CN E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	2.30	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AH271-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	< 0.100	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-03-04-001

*Wilailak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED

**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230

**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th

**SAMPLING SOURCE** : -

**SAMPLE TYPE** : SEAWATER

**SAMPLING DATE** : MAY 2, 2025

**SAMPLING TIME** : 10:25 HOUR

**SAMPLING METHOD** : COMPOSITE

**SAMPLING BY** : MR THANADET WANSANOR

**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : MAY 3, 2025

**ANALYTICAL DATE** : MAY 3-16, 2025

**ISSUE DATE** : MAY 20, 2025

**REPORT NO.** : 2025-U043161

**WORK NO.** : 2019-002022

**ANALYSIS NO.** : T25AJ461-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AJ461-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.8 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	0.001	0.005
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31.6	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	28.8	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.7	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.7	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	85.3	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	19.0	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	34,740	-	25
CYANIDE	µg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN C AND PART 4500-CN E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	3.66	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.4	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AJ461-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	1.03	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			YELLOW		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-02-05-001

*Wibulak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	RECEIVED DATE	: JUNE 17, 2025
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	ANALYTICAL DATE	: JUNE 17-27, 2025
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	ISSUE DATE	: JULY 3, 2025
CONTACT INFORMATION	: TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th	REPORT NO.	: 2025-U059327
SAMPLING SOURCE	: -	WORK NO.	: 2019-002022
SAMPLE TYPE	: SEAWATER	ANALYSIS NO.	: T25AN153-0001
SAMPLING DATE	: JUNE 16, 2025		
SAMPLING TIME	: 10:40 HOUR		
SAMPLING METHOD	: COMPOSITE		
SAMPLING BY	: MR THANADET WANSANOR		
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AN153-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.7 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	0.001	0.005
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	30.8	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	25.0	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.0	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.9	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	68.8	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	6.3	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	29,720	-	25
CYANIDE	µg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN C AND PART 4500-CN E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	15.0	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	2.7	-	3





PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AN153-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.340	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR BROWN		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-16-06-004

*Wibulak Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR

## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SEAWATER  
**SAMPLING DATE** : JUNE 16, 2025  
**SAMPLING TIME** : 10:40 HOUR  
**SAMPLING METHOD** : COMPOSITE  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : JUNE 17, 2025  
**ANALYTICAL DATE** : JUNE 17-27, 2025  
**ISSUE DATE** : JULY 3, 2025  
**REPORT NO.** : 2025-U059327  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AN153-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AN153-0001		
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H* B)	7.7 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTIPYRINE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	0.001	0.005
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	30.8	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	25.0	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	5.0	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.9	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	68.8	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	6.3	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	29,720	-	25
CYANIDE	µg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN* C AND PART 4500-CN* E)	< 5	5	20
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	15.0	0.50	2.00
SULPHIDE	µg/L	METHYLENE BLUE COLOURIMETRIC METHOD (METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 5)	< 10	-	10
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	2.7	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T25AN153-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.340	0.100	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID			COLOURLESS/CLEAR		
SEDIMENT			BROWN		

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.

FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF QUANTITATION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.

RELEASE ORDER NO. : EV-16-06-004

*Wibildk Srisuk*

(MISS WILAILAK SRISUK)  
LABORATORY SUPERVISOR



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## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SEAWATER  
**SAMPLING DATE** : APRIL 28, 2025  
**SAMPLING TIME** : \*  
**SAMPLING METHOD** : PLANKTON NET  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN PURATAKO  
**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29 - MAY 7, 2025  
**ISSUE DATE** : MAY 14, 2025  
**REPORT NO.** : 2025-U041492  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ115-0001, T25AJ115-0003

PHYTOPLANKTON (UNITS/m <sup>3</sup> )	COUNTING UNIT	RESULT	
		SAMPLE NO. 1 10:27 HOUR * T25AJ115-0001	SAMPLE NO. 2 10:12 HOUR * T25AJ115-0003
Division Cyanophyta			
Class Cyanophyceae			
Family Oscillatoriaceae			
<i>Oscillatoria</i> spp.	FILAMENT	0	14,860
Division Chromophyta			
Class Bacillariophyceae			
Family Thalassiosiraceae			
<i>Lauderia annulata</i>	FILAMENT	33,367	12,686
<i>Thalassiosira</i> spp.	CELL	146,761	52,536
Family Melosiraceae			
<i>Paralia sulcata</i>	CELL	18,099	52,536
Family Leptocylindraceae			
<i>Leptocylindrus danicus</i>	FILAMENT	0	21,382
Family Coscinodiscaceae			
<i>Coscinodiscus</i> spp.	CELL	0	15,577
Family Rhizosoleniaceae			
<i>Guinardia</i> spp.	CELL	69,564	14,860
<i>Proboscia alata</i>	CELL	0	62,689
<i>Rhizosolenia</i> spp.	CELL	29,536	34,785
Family Hemiaulaceae			
<i>Hemiaulus</i> spp.	CELL	0	19,208
Family Chaetocerotaceae			
<i>Bacteriastrum</i> spp.	FILAMENT	108,649	103,626
<i>Chaetoceros</i> spp.	CELL	722,003,954	305,339,026
Family Lithodsmaceae			
<i>Ditylum</i> spp.	CELL	13,353	9,055
Family Eupodiscaceae			
<i>Odontella</i> spp.	CELL	27,649	10,512



PHYTOPLANKTON (UNITS/m <sup>3</sup> )	COUNTING UNIT	RESULT	
		SAMPLE NO. 1 10:27 HOUR * T25AJ115-0001	SAMPLE NO. 2 10:12 HOUR * T25AJ115-0003
Family Thalassionemataceae <i>Thalassionema nitzschioides</i>	CELL	52,409	119,214
Family Naviculaceae <i>Amphora</i> spp.	CELL	33,367	61,961
<i>Navicula</i> spp.	CELL	91,494	40,220
<i>Pleurosigma</i> spp.	CELL	1,241,822	1,265,648
Family Bacillariaceae <i>Bacillaria paxillifer</i>	CELL	304,016	769,251
<i>Nitzschia</i> spp.	CELL	50,522	0
<i>N. longissima</i>	CELL	0	25,730
Family Surirellaceae <i>Entomoneis</i> spp.	CELL	90,550	105,083
<i>Surirella</i> spp.	CELL	5,333,287	1,781,982
Class Dictyochophyceae Family Dictyochophyceae <i>Dictyocha</i> spp.	CELL	0	19,208
Class Dinophyceae Family Prorocentraceae <i>Prorocentrum</i> spp.	CELL	0	15,577
Family Dinophysiaceae <i>Dinophysis</i> spp.	CELL	0	10,512
Family Noctilucaeae <i>Noctiluca</i> spp.	CELL	18,099	42,753
Family Ceratiaceae <i>Ceratium</i> spp.	CELL	0	4,707
Family Peridiniaceae <i>Peridinium</i> spp.	CELL	99,128	93,484
Family Protoperidiniaceae <i>Protoperidinium</i> spp.	CELL	61,959	46,384
TOTAL ABUNDANCE	UNITS/m <sup>3</sup>	729,827,585	310,165,052
ORGANISMS COUNTED	NUMBER	20	29
SAMPLE CONDITION (VISUAL OBSERVATION) COLOUR AND TURBIDITY OF WATER COLOUR OF SEDIMENT		GREEN/TURBID GREEN	GREEN/TURBID GREEN

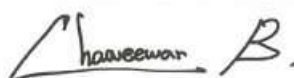
REMARK : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023 PART 10200 F.



ZOOPLANKTON (UNITS/m <sup>3</sup> )	COUNTING UNIT	RESULT	
		SAMPLE NO. 1 10:27 HOUR * T25AJ115-0001	SAMPLE NO. 2 10:12 HOUR * T25AJ115-0003
Phylum Protozoa			
Class Sarcodina			
Foraminifera	INDIVIDUAL	1,671	0
Class Ciliata			
Family Cyttarocylindae			
<i>Favella</i> sp.	INDIVIDUAL	9,471	5,018
Phylum Chaetognatha			
Class Sagittoidea			
Family Sagittidae			
<i>Sagitta</i> sp.	INDIVIDUAL	0	1,847
Phylum Annelida			
Class Polychaeta			
Polychaete Larva	INDIVIDUAL	3,892	8,458
Phylum Arthropoda			
Class Crustacea			
Cyclopoid Copepod	INDIVIDUAL	42,307	37,254
Calanoid Copepod	INDIVIDUAL	53,447	31,174
Harpacticoid Copepod	INDIVIDUAL	12,811	13,213
Nauplius of Copepod	INDIVIDUAL	212,117	175,430
Cerripedia Nauplius	INDIVIDUAL	3,341	793
Zoea	INDIVIDUAL	0	793
Phylum Mollusca			
Class Gastropoda			
Gastropod Larva	INDIVIDUAL	0	793
Class Bivalvia			
Bivalvia Larva	INDIVIDUAL	1,671	15,322

ZOOPLANKTON (UNITS/m <sup>3</sup> )	COUNTING UNIT	RESULT	
		SAMPLE NO. 1 10:27 HOUR * T25AJ115-0001	SAMPLE NO. 2 10:12 HOUR * T25AJ115-0003
Phylum Chordata Class Larvacea Family Oikopleuridae <i>Oikopleura</i> sp.	INDIVIDUAL	49,555	31,705
TOTAL ABUNDANCE	UNITS/m <sup>3</sup>	390,283	321,800
ORGANISMS COUNTED	NUMBER	10	12
SAMPLE CONDITION (VISUAL OBSERVATION) COLOUR AND TURBIDITY OF WATER COLOUR OF SEDIMENT		GREEN/TURBID GREEN	GREEN/TURBID GREEN

SAMPLE NAME    SAMPLE NO. 1 500 METERS OFFSHORE (JETTY)  
SAMPLE NO. 2 BERTH ISLAND



(MISS CHAWEEWAN BOONLA)  
LABORATORY SUPERVISOR


## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : TEL : 0 3314 2891 e-mail : wanlop.boongor@bangchak.co.th  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SEDIMENT  
**SAMPLING DATE** : APRIL 28, 2025  
**SAMPLING TIME** : \*  
**SAMPLING METHOD** : PETERSEN GRAB  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS KRISSANA KOMOLWANICH  
**RECEIVED DATE** : APRIL 29, 2025  
**ANALYTICAL DATE** : APRIL 29 - MAY 2, 2025  
**ISSUE DATE** : MAY 14, 2025  
**REPORT NO.** : 2025-U041494  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T25AJ115-0002, T25AJ115-0004

BENTHOS (INDIVIDUALS/m <sup>2</sup> )	RESULT	
	SAMPLE NO. 1 10:30 HOUR * T25AJ115-0002	SAMPLE NO. 2 10:18 HOUR * T25AJ115-0004
Phylum Annelida		
Class Polychaeta		
Family Spionidae	7	7
Family Cossuridae	7	0
TOTAL DENSITY (INDIVIDUALS/m <sup>2</sup> )	14	7
AMOUNT OF SPECIES	2	1
SAMPLE CONDITION	CLAY	CLAY

SAMPLE NO. 1 500 METERS OFFSHORE (JETTY)

SAMPLE NO. 2 BERTH ISLAND



(MISS CHAWEEWAN BOONLA)  
LABORATORY SUPERVISOR

