

ภาคผนวก

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ภาคผนวก ก  
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 : T

MEASURING PLACE : BAN AO UDOM

MEASURING TYPE : AMBIENT (AIR)

MEASURING DATE : NOVEMBER 16-23, 2024

MEASURING TIME : \*

MEASURING METHOD : CHEMILUMINESCENCE

MEASURED BY : MR SIRAPAT JONGPHADUNGKIEI

RECEIVED DATE : NOVEMBER 16-23, 2024

ANALYTICAL DATE : NOVEMBER 16-23, 2024

ISSUE DATE : NOVEMBER 29, 2024

REPORT NO. : 2024-U111892

WORK NO. : 2019-02022

ANALYSIS NO. : T248B854-0008 - T248B854-0014

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	BAN AO UDOM		
	NOVEMBER 16-17, 2024	NOVEMBER 17-18, 2024	NOVEMBER 18-19, 2024
	T248B854-0008	T248B854-0009	T248B854-0010
08:00-09:00 HOUR	0.0120	0.0124	0.0113
09:00-10:00 HOUR	0.0118	0.0130	0.0122
10:00-11:00 HOUR	0.0130	0.0125	0.0127
11:00-12:00 HOUR	0.0130	0.0130	0.0118
12:00-13:00 HOUR	0.0128	0.0116	0.0105
13:00-14:00 HOUR	0.0121	0.0122	0.0112
14:00-15:00 HOUR	0.0126	0.0115	0.0138
15:00-16:00 HOUR	0.0125	0.0133	0.0124
16:00-17:00 HOUR	0.0128	0.0120	0.0118
17:00-18:00 HOUR	0.0103	0.0132	0.0134
18:00-19:00 HOUR	0.0100	0.0129	0.0130
19:00-20:00 HOUR	0.0105	0.0122	0.0112
20:00-21:00 HOUR	0.0102	0.0116	0.0122
21:00-22:00 HOUR	0.0100	0.0103	0.0122
22:00-23:00 HOUR	0.0091	0.0103	0.0110
23:00-00:00 HOUR	0.0102	0.0108	0.0107
00:00-01:00 HOUR	0.0105	0.0103	0.0125
01:00-02:00 HOUR	0.0105	0.0098	0.0109
02:00-03:00 HOUR	0.0104	0.0105	0.0119
03:00-04:00 HOUR	0.0102	0.0113	0.0123
04:00-05:00 HOUR	0.0095	0.0104	0.0130
05:00-06:00 HOUR	0.0104	0.0091	0.0114
06:00-07:00 HOUR	0.0096	0.0104	0.0124
07:00-08:00 HOUR	0.0108	0.0114	0.0121



ANALYSIS REPORT

CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
ADDRESS : 118 PMO 2 THUNG SUKHA SI RACHA CHON BURI 20230  
CONTACT INFORMATION :  
MEASURING PLACE : BAN AO UDOM  
MEASURING TYPE : AMBIENT (AIR)  
MEASURING DATE : NOVEMBER 16-23, 2024  
MEASURING TIME : \*  
MEASURING METHOD : UV FLUORESCENCE  
MEASURED BY : MR SIRAPAT JONGPHADUNGKIEI  
RECEIVED DATE : NOVEMBER 16-23, 2024  
ANALYTICAL DATE : NOVEMBER 16-23, 2024  
ISSUE DATE : NOVEMBER 29, 2024  
REPORT NO. : 2024-U111898  
WORK NO. : 2019-002022  
ANALYSIS NO. : T248B854-0008 - T248B854-0014

TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	BAN AO UDOM			
	NOVEMBER 16-17, 2024		NOVEMBER 17-18, 2024	
	T248B854-0008		T248B854-0009	
08:00-09:00 HOUR	0.0032	0.0034	0.0033	
09:00-10:00 HOUR	0.0024	0.0039	0.0041	
10:00-11:00 HOUR	0.0030	0.0030	0.0039	
11:00-12:00 HOUR	0.0026	0.0033	0.0027	
12:00-13:00 HOUR	0.0022	0.0037	0.0044	
13:00-14:00 HOUR	0.0024	0.0036	0.0033	
14:00-15:00 HOUR	0.0030	0.0039	0.0026	
15:00-16:00 HOUR	0.0032	0.0032	0.0027	
16:00-17:00 HOUR	0.0024	0.0025	0.0028	
17:00-18:00 HOUR	0.0031	0.0030	0.0037	
18:00-19:00 HOUR	0.0030	0.0033	0.0038	
19:00-20:00 HOUR	0.0027	0.0036	0.0041	
20:00-21:00 HOUR	0.0024	0.0035	0.0034	
21:00-22:00 HOUR	0.0031	0.0036	0.0043	
22:00-23:00 HOUR	0.0024	0.0037	0.0038	
23:00-00:00 HOUR	0.0028	0.0035	0.0029	
01:00-02:00 HOUR	0.0025	0.0039	0.0040	
02:00-03:00 HOUR	0.0028	0.0042	0.0026	
03:00-04:00 HOUR	0.0023	0.0032	0.0031	
04:00-05:00 HOUR	0.0032	0.0036	0.0027	
05:00-06:00 HOUR	0.0044	0.0043	0.0042	
06:00-07:00 HOUR	0.0039	0.0027	0.0023	
07:00-08:00 HOUR	0.0033	0.0040	0.0024	
AVERAGE 24 HOUR	0.0029	0.0035	0.0034	



TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	BAN AO UDOM			
	NOVEMBER 19-20, 2024		NOVEMBER 21-22, 2024	
	T248B854-0011		T248B854-0013	
08:00-09:00 HOUR	0.0031	0.0039	0.0024	0.0036
09:00-10:00 HOUR	0.0028	0.0035	0.0037	0.0043
10:00-11:00 HOUR	0.0039	0.0036	0.0033	0.0039
11:00-12:00 HOUR	0.0030	0.0033	0.0044	0.0030
12:00-13:00 HOUR	0.0023	0.0030	0.0042	0.0023
13:00-14:00 HOUR	0.0040	0.0036	0.0035	0.0031
14:00-15:00 HOUR	0.0043	0.0044	0.0027	0.0026
15:00-16:00 HOUR	0.0032	0.0027	0.0028	0.0044
16:00-17:00 HOUR	0.0034	0.0026	0.0034	0.0027
17:00-18:00 HOUR	0.0033	0.0039	0.0032	0.0034
18:00-19:00 HOUR	0.0031	0.0032	0.0031	0.0032
19:00-20:00 HOUR	0.0023	0.0038	0.0027	0.0026
20:00-21:00 HOUR	0.0027	0.0026	0.0023	0.0032
21:00-22:00 HOUR	0.0024	0.0024	0.0027	0.0033
22:00-23:00 HOUR	0.0034	0.0026	0.0027	0.0037
23:00-00:00 HOUR	0.0030	0.0038	0.0026	0.0029
00:00-01:00 HOUR	0.0042	0.0034	0.0022	0.0028
01:00-02:00 HOUR	0.0028	0.0039	0.0024	0.0023
02:00-03:00 HOUR	0.0025	0.0039	0.0027	0.0031
03:00-04:00 HOUR	0.0030	0.0028	0.0031	0.0026
04:00-05:00 HOUR	0.0035	0.0036	0.0029	0.0024
05:00-06:00 HOUR	0.0025	0.0032	0.0031	0.0026
06:00-07:00 HOUR	0.0032	0.0026	0.0023	0.0023
07:00-08:00 HOUR	0.0043	0.0028	0.0040	0.0029
AVERAGE 24 HOUR	0.0032	0.0033	0.0030	0.0031

(MR. SITA BANJONGJAIKUK)  
LABORATORY SUPERVISOR





ANALYSIS REPORT

CUSTOMER NAME

ADDRESS

CONTACT INFORMATION

MEASURING PLACE

MEASURING TYPE

MEASURING DATE

MEASURING TIME

MEASURING METHOD

MEASURED BY

: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED

: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230

: [REDACTED]

: LAM CHABANG PORT'S GATE

: AMBIENT (AIR)

: NOVEMBER 16-23, 2024

: \*  
: CHEMILUMINESCENCE

: MR SIRAPAT JONGPHADUNGKIEI

RECEIVED DATE

ANALYTICAL DATE

ISSUE DATE

REPORT NO.

WORK NO.

ANALYSIS NO.

: NOVEMBER 16-23, 2024

: NOVEMBER 16-23, 2024

: NOVEMBER 29, 2024

: 2024-U111893

: 2019-002022

: T248B854-0015 - T248B854-0021

TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	LAM CHABANG PORT'S GATE			
	NOVEMBER 16-17, 2024		NOVEMBER 18-19, 2024	
	T248B854-0015		T248B854-0016	
08:00-09:00 HOUR	0.0161	0.0149	0.0136	
09:00-10:00 HOUR	0.0136	0.0162	0.0150	
10:00-11:00 HOUR	0.0164	0.0158	0.0150	
11:00-12:00 HOUR	0.0158	0.0158	0.0167	
12:00-13:00 HOUR	0.0146	0.0155	0.0161	
13:00-14:00 HOUR	0.0159	0.0167	0.0137	
14:00-15:00 HOUR	0.0133	0.0143	0.0151	
15:00-16:00 HOUR	0.0150	0.0155	0.0149	
16:00-17:00 HOUR	0.0161	0.0153	0.0162	
17:00-18:00 HOUR	0.0144	0.0163	0.0167	
18:00-19:00 HOUR	0.0139	0.0145	0.0162	
19:00-20:00 HOUR	0.0155	0.0161	0.0146	
20:00-21:00 HOUR	0.0157	0.0159	0.0156	
21:00-22:00 HOUR	0.0139	0.0155	0.0151	
22:00-23:00 HOUR	0.0152	0.0156	0.0153	
23:00-00:00 HOUR	0.0149	0.0171	0.0146	
00:00-01:00 HOUR	0.0154	0.0155	0.0153	
01:00-02:00 HOUR	0.0134	0.0156	0.0172	
02:00-03:00 HOUR	0.0162	0.0153	0.0161	
03:00-04:00 HOUR	0.0148	0.0154	0.0161	
04:00-05:00 HOUR	0.0166	0.0154	0.0162	
05:00-06:00 HOUR	0.0160	0.0166	0.0144	
06:00-07:00 HOUR	0.0140	0.0156	0.0163	
07:00-08:00 HOUR	0.0139	0.0157	0.0144	

RESULT (ppm)

TIME *	NITROGEN DIOXIDE			
	LAM CHABANG PORT'S GATE			
	NOVEMBER 19-20, 2024 T248B854-0018	NOVEMBER 20-21, 2024 T248B854-0019	NOVEMBER 21-22, 2024 T248B854-0020	NOVEMBER 22-23, 2024 T248B854-0021
08:00-09:00 HOUR	0.0147	0.0151	0.0140	0.0144
09:00-10:00 HOUR	0.0135	0.0162	0.0168	0.0152
10:00-11:00 HOUR	0.0148	0.0155	0.0164	0.0163
11:00-12:00 HOUR	0.0158	0.0148	0.0159	0.0147
12:00-13:00 HOUR	0.0156	0.0145	0.0160	0.0141
13:00-14:00 HOUR	0.0162	0.0152	0.0144	0.0163
14:00-15:00 HOUR	0.0156	0.0158	0.0158	0.0147
15:00-16:00 HOUR	0.0151	0.0171	0.0167	0.0154
16:00-17:00 HOUR	0.0143	0.0156	0.0149	0.0151
17:00-18:00 HOUR	0.0149	0.0162	0.0159	0.0153
18:00-19:00 HOUR	0.0167	0.0157	0.0137	0.0153
19:00-20:00 HOUR	0.0154	0.0160	0.0153	0.0157
20:00-21:00 HOUR	0.0152	0.0168	0.0150	0.0143
21:00-22:00 HOUR	0.0162	0.0155	0.0166	0.0143
22:00-23:00 HOUR	0.0159	0.0169	0.0158	0.0128
23:00-00:00 HOUR	0.0160	0.0144	0.0149	0.0132
00:00-01:00 HOUR	0.0161	0.0149	0.0137	0.0134
01:00-02:00 HOUR	0.0163	0.0161	0.0125	0.0137
02:00-03:00 HOUR	0.0144	0.0157	0.0124	0.0127
03:00-04:00 HOUR	0.0151	0.0148	0.0117	0.0133
04:00-05:00 HOUR	0.0140	0.0158	0.0137	0.0127
05:00-06:00 HOUR	0.0146	0.0154	0.0115	0.0123
06:00-07:00 HOUR	0.0151	0.0149	0.0135	0.0131
07:00-08:00 HOUR	0.0161	0.0152	0.0144	0.0170

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THIR SULA BANGKOK PRIORITY

LABORATORY SUPERVISOR





ANALYSIS REPORT

CUSTOMER NAME : BANGCHAK SRRACHA PUBLIC COMPANY LIMITED  
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
CONTACT INFORMATION : [REDACTED]  
MEASURING PLACE : LAM CHABANG PORT'S GATE  
MEASURING TYPE : AMBIENT (AIR)  
MEASURING DATE : NOVEMBER 16-23, 2024  
MEASURING TIME : \*  
MEASURING METHOD : UV FLUORESCENCE  
MEASURED BY : MR SIRAPAT JONGPHADUNGKIEI  
RECEIVED DATE : NOVEMBER 16-23, 2024  
ANALYTICAL DATE : NOVEMBER 16-23, 2024  
ISSUE DATE : NOVEMBER 29, 2024  
REPORT NO. : 2024-U111900  
WORK NO. : 2019-002022  
ANALYSIS NO. : T2-488854-0015 - T2-488854-0021

TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	LAM CHABANG PORT'S GATE			
	NOVEMBER 16-17, 2024		NOVEMBER 17-18, 2024	
	T2-488854-0015		T2-488854-0016	
08:00-09:00 HOUR	0.0039	0.0025	0.0030	
09:00-10:00 HOUR	0.0038	0.0034	0.0035	
10:00-11:00 HOUR	0.0035	0.0034	0.0035	
11:00-12:00 HOUR	0.0038	0.0028	0.0034	
12:00-13:00 HOUR	0.0045	0.0025	0.0035	
13:00-14:00 HOUR	0.0046	0.0036	0.0031	
14:00-15:00 HOUR	0.0035	0.0039	0.0029	
15:00-16:00 HOUR	0.0039	0.0026	0.0028	
16:00-17:00 HOUR	0.0038	0.0029	0.0034	
17:00-18:00 HOUR	0.0036	0.0031	0.0032	
18:00-19:00 HOUR	0.0034	0.0038	0.0038	
19:00-20:00 HOUR	0.0037	0.0039	0.0035	
20:00-21:00 HOUR	0.0032	0.0038	0.0039	
21:00-22:00 HOUR	0.0035	0.0033	0.0037	
22:00-23:00 HOUR	0.0039	0.0032	0.0035	
23:00-00:00 HOUR	0.0033	0.0029	0.0031	
00:00-01:00 HOUR	0.0038	0.0032	0.0039	
01:00-02:00 HOUR	0.0037	0.0025	0.0037	
02:00-03:00 HOUR	0.0035	0.0039	0.0026	
03:00-04:00 HOUR	0.0032	0.0032	0.0035	
04:00-05:00 HOUR	0.0031	0.0036	0.0026	
05:00-06:00 HOUR	0.0035	0.0039	0.0029	
06:00-07:00 HOUR	0.0039	0.0037	0.0038	
07:00-08:00 HOUR	0.0029	0.0039	0.0037	
AVERAGE 24 HOUR	0.0036	0.0033	0.0034	

TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	LAM CHABANG PORT'S GATE			
	NOVEMBER 19-20, 2024		NOVEMBER 20-21, 2024	
	T2-488854-0018		T2-488854-0019	
08:00-09:00 HOUR	0.0037	0.0026	0.0028	0.0039
09:00-10:00 HOUR	0.0035	0.0038	0.0038	0.0041
10:00-11:00 HOUR	0.0036	0.0033	0.0039	0.0045
11:00-12:00 HOUR	0.0026	0.0033	0.0026	0.0053
12:00-13:00 HOUR	0.0027	0.0026	0.0036	0.0056
13:00-14:00 HOUR	0.0039	0.0030	0.0038	0.0055
14:00-15:00 HOUR	0.0035	0.0027	0.0030	0.0053
15:00-16:00 HOUR	0.0034	0.0035	0.0025	0.0044
16:00-17:00 HOUR	0.0026	0.0034	0.0030	0.0042
17:00-18:00 HOUR	0.0027	0.0032	0.0027	0.0038
18:00-19:00 HOUR	0.0025	0.0027	0.0036	0.0032
19:00-20:00 HOUR	0.0034	0.0029	0.0032	0.0029
20:00-21:00 HOUR	0.0036	0.0028	0.0038	0.0035
21:00-22:00 HOUR	0.0034	0.0039	0.0030	0.0038
22:00-23:00 HOUR	0.0038	0.0036	0.0034	0.0034
23:00-00:00 HOUR	0.0036	0.0030	0.0037	0.0037
00:00-01:00 HOUR	0.0036	0.0032	0.0028	0.0036
01:00-02:00 HOUR	0.0031	0.0026	0.0035	0.0031
02:00-03:00 HOUR	0.0030	0.0031	0.0030	0.0039
03:00-04:00 HOUR	0.0029	0.0029	0.0036	0.0030
04:00-05:00 HOUR	0.0027	0.0030	0.0034	0.0037
05:00-06:00 HOUR	0.0035	0.0037	0.0032	0.0036
06:00-07:00 HOUR	0.0036	0.0035	0.0039	0.0032
07:00-08:00 HOUR	0.0029	0.0032	0.0030	0.0037
AVERAGE 24 HOUR	0.0032	0.0031	0.0033	0.0040

(MR. SITA BANJONGAIRUK)  
LABORATORY SUPERVISOR





ANALYSIS REPORT

CUSTOMER NAME  
ADDRESS  
CONTACT INFORMATION  
MEASURING PLACE  
MEASURING TYPE  
MEASURING DATE  
MEASURING TIME  
MEASURING METHOD  
MEASURED BY

: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
: 118 MOO 2 THUNG SUKHIA SI RACHA CHON BURI 20230  
:   
: K.U.STATION  
: AMBIENT (AIR)  
: NOVEMBER 16-23, 2024  
: \*  
: CHEMILUMINESCENCE  
: MR SIRAPAT JONGPHADUNGKIEI

RECEIVED DATE  
ANALYTICAL DATE  
ISSUE DATE  
REPORT NO.  
WORK NO.  
ANALYSIS NO.

: NOVEMBER 16-23, 2024  
: NOVEMBER 16-23, 2024  
: NOVEMBER 29, 2024  
: 2024-U111894  
: 2019-002022  
: T248B854-0022 - T248B854-0028

TIME *	RESULT (ppm)	
	NITROGEN DIOXIDE	
	K.U.STATION	
	NOVEMBER 16-17, 2024 T248B854-0022	NOVEMBER 18-19, 2024 T248B854-0024
	T248B854-0023	
08:00-09:00 HOUR	0.0106	0.0125
09:00-10:00 HOUR	0.0114	0.0114
10:00-11:00 HOUR	0.0125	0.0103
11:00-12:00 HOUR	0.0115	0.0107
12:00-13:00 HOUR	0.0113	0.0124
13:00-14:00 HOUR	0.0113	0.0098
14:00-15:00 HOUR	0.0120	0.0124
15:00-16:00 HOUR	0.0119	0.0112
16:00-17:00 HOUR	0.0118	0.0116
17:00-18:00 HOUR	0.0113	0.0107
18:00-19:00 HOUR	0.0124	0.0126
19:00-20:00 HOUR	0.0131	0.0100
20:00-21:00 HOUR	0.0097	0.0116
21:00-22:00 HOUR	0.0108	0.0111
22:00-23:00 HOUR	0.0095	0.0106
23:00-00:00 HOUR	0.0121	0.0100
00:00-01:00 HOUR	0.0125	0.0114
01:00-02:00 HOUR	0.0135	0.0109
02:00-03:00 HOUR	0.0122	0.0093
03:00-04:00 HOUR	0.0114	0.0095
04:00-05:00 HOUR	0.0108	0.0131
05:00-06:00 HOUR	0.0118	0.0121
06:00-07:00 HOUR	0.0101	0.0114
07:00-08:00 HOUR	0.0123	0.0098

ANALYSIS REPORT

CUSTOMER NAME  
ADDRESS  
CONTACT INFORMATION  
MEASURING PLACE  
MEASURING TYPE  
MEASURING DATE  
MEASURING TIME  
MEASURING METHOD  
MEASURED BY

: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
: K.U.STATION  
: AMBIENT (AIR)  
: NOVEMBER 16-23, 2024  
: \*  
: UV FLUORESCENCE  
: MR SIRAPAT JONGPHADUNGKIEI  
: 2019-002022  
: T2488854-0022 - T2488854-0028

RECEIVED DATE  
ANALYTICAL DATE  
ISSUE DATE  
REPORT NO.  
WORK NO.  
ANALYSIS NO.

: NOVEMBER 16-23, 2024  
: NOVEMBER 16-23, 2024  
: NOVEMBER 29, 2024  
: 2024-U111902  
: 2019-002022  
: T2488854-0022 - T2488854-0028

TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	K.U.STATION			
	NOVEMBER 16-17, 2024		NOVEMBER 17-18, 2024	
	T2488854-0022		T2488854-0023	
08:00-09:00 HOUR	0.0038	0.0034	0.0027	
09:00-10:00 HOUR	0.0036	0.0032	0.0031	
10:00-11:00 HOUR	0.0028	0.0028	0.0041	
11:00-12:00 HOUR	0.0033	0.0024	0.0043	
12:00-13:00 HOUR	0.0026	0.0031	0.0047	
13:00-14:00 HOUR	0.0028	0.0028	0.0031	
14:00-15:00 HOUR	0.0032	0.0037	0.0028	
15:00-16:00 HOUR	0.0030	0.0036	0.0032	
16:00-17:00 HOUR	0.0029	0.0029	0.0039	
17:00-18:00 HOUR	0.0025	0.0045	0.0044	
18:00-19:00 HOUR	0.0028	0.0032	0.0037	
19:00-20:00 HOUR	0.0029	0.0031	0.0027	
20:00-21:00 HOUR	0.0033	0.0040	0.0030	
21:00-22:00 HOUR	0.0024	0.0040	0.0039	
22:00-23:00 HOUR	0.0031	0.0044	0.0030	
23:00-00:00 HOUR	0.0030	0.0047	0.0033	
00:00-01:00 HOUR	0.0036	0.0047	0.0029	
01:00-02:00 HOUR	0.0031	0.0038	0.0036	
02:00-03:00 HOUR	0.0032	0.0039	0.0044	
03:00-04:00 HOUR	0.0027	0.0046	0.0026	
04:00-05:00 HOUR	0.0029	0.0034	0.0046	
05:00-06:00 HOUR	0.0025	0.0047	0.0033	
06:00-07:00 HOUR	0.0031	0.0033	0.0026	
07:00-08:00 HOUR	0.0032	0.0028	0.0042	
AVERAGE 24 HOUR	0.0030	0.0036	0.0035	

TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	K.U.STATION			
	NOVEMBER 19-20, 2024		NOVEMBER 21-22, 2024	
	T2488854-0025		T2488854-0026	
08:00-09:00 HOUR	0.0028	0.0044	0.0032	
09:00-10:00 HOUR	0.0047	0.0028	0.0044	
10:00-11:00 HOUR	0.0043	0.0042	0.0027	
11:00-12:00 HOUR	0.0047	0.0030	0.0036	
12:00-13:00 HOUR	0.0043	0.0035	0.0030	
13:00-14:00 HOUR	0.0043	0.0034	0.0043	
14:00-15:00 HOUR	0.0038	0.0032	0.0039	
15:00-16:00 HOUR	0.0036	0.0038	0.0037	
16:00-17:00 HOUR	0.0033	0.0041	0.0047	
17:00-18:00 HOUR	0.0036	0.0046	0.0029	
18:00-19:00 HOUR	0.0030	0.0036	0.0032	
19:00-20:00 HOUR	0.0037	0.0045	0.0043	
20:00-21:00 HOUR	0.0039	0.0026	0.0035	
21:00-22:00 HOUR	0.0027	0.0027	0.0028	
22:00-23:00 HOUR	0.0044	0.0033	0.0039	
23:00-00:00 HOUR	0.0036	0.0043	0.0027	
00:00-01:00 HOUR	0.0042	0.0029	0.0029	
01:00-02:00 HOUR	0.0043	0.0043	0.0026	
02:00-03:00 HOUR	0.0039	0.0046	0.0024	
03:00-04:00 HOUR	0.0038	0.0037	0.0031	
04:00-05:00 HOUR	0.0034	0.0028	0.0025	
05:00-06:00 HOUR	0.0040	0.0026	0.0030	
06:00-07:00 HOUR	0.0026	0.0042	0.0026	
07:00-08:00 HOUR	0.0036	0.0040	0.0024	
AVERAGE 24 HOUR	0.0038	0.0036	0.0033	

(MR.SILA BANJONGAIRUK)  
LABORATORY SUPERVISOR



ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** :  
**SAMPLING SOURCE** : REFINERY GATE  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : NOVEMBER 26, 2024  
**SAMPLING TIME** : 08:00, 09:00, 10:00, 11:00, 12:00, 13:00, 14:00, 15:00, 16:00, 17:00, 18:00, 19:00, 20:00, 21:00, 22:00, 23:00, 24:00  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARN TUMSA-AT  
**RECEIVED DATE** : NOVEMBER 26, 2024  
**ANALYTICAL DATE** : NOVEMBER 26-29, 2024  
**ISSUE DATE** : DECEMBER 4, 2024  
**REPORT NO.** : 2024-U13498  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T24B8B54-0001 - T24B8B54-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			*	**	***
TOTAL SUSPENDED PARTICULATE MATTER	mg/m³	GRAVIMETRIC (HIGH VOLUME METHOD)	T24B8B54-0001	T24B8B54-0002	T24B8B54-0003
			0.081	0.033	0.032
PARTICULATE MATTER as PM10 (≤ 10 µm)	mg/m³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.045	0.022	0.014
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE

REMARK  
TSP, PM10  
TSP  
PM10  
\*  
\*\*  
\*\*\*  
: REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER 1-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.  
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER 1-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
: SAMPLING FROM 10:00 HOUR ON NOVEMBER 16, 2024 TO 10:00 HOUR ON NOVEMBER 17, 2024.  
: SAMPLING FROM 10:00 HOUR ON NOVEMBER 17, 2024 TO 10:00 HOUR ON NOVEMBER 18, 2024.  
: SAMPLING FROM 10:00 HOUR ON NOVEMBER 18, 2024 TO 10:00 HOUR ON NOVEMBER 19, 2024.

(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** :  
**SAMPLING SOURCE** : REFINERY GATE  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : NOVEMBER 26, 2024  
**SAMPLING TIME** : 08:00, 09:00, 10:00, 11:00, 12:00, 13:00, 14:00, 15:00, 16:00, 17:00, 18:00, 19:00, 20:00, 21:00, 22:00, 23:00, 24:00  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARN TUMSA-AT  
**RECEIVED DATE** : NOVEMBER 26, 2024  
**ANALYTICAL DATE** : NOVEMBER 26-29, 2024  
**ISSUE DATE** : DECEMBER 4, 2024  
**REPORT NO.** : 2024-U13499  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T24B8B54-0004 - T24B8B54-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			*	**	***	****
TOTAL SUSPENDED PARTICULATE MATTER	mg/m³	GRAVIMETRIC (HIGH VOLUME METHOD)	T24B8B54-0004	T24B8B54-0005	T24B8B54-0006	T24B8B54-0007
			0.028	0.031	0.026	0.033
PARTICULATE MATTER as PM10 (≤ 10 µm)	mg/m³	GRAVIMETRIC (HIGH VOLUME METHOD)	0.017	0.015	0.013	0.017
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

REMARK  
TSP, PM10  
TSP  
PM10  
\*  
\*\*  
\*\*\*  
\*\*\*\*  
: REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER 1-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.  
: US EPA, CODE OF FEDERAL REGULATIONS, 40 CFR CHAPTER 1-PART 50 APPENDIX J, REFERENCE METHOD FOR THE DETERMINATION OF PARTICULATE MATTER AS PM10 IN THE ATMOSPHERE (HIGH-VOLUME METHOD) REVISED AS OF JULY 1, 2021.  
: SAMPLING FROM 10:00 HOUR ON NOVEMBER 19, 2024 TO 10:00 HOUR ON NOVEMBER 20, 2024.  
: SAMPLING FROM 10:00 HOUR ON NOVEMBER 20, 2024 TO 10:00 HOUR ON NOVEMBER 21, 2024.  
: SAMPLING FROM 10:00 HOUR ON NOVEMBER 21, 2024 TO 10:00 HOUR ON NOVEMBER 22, 2024.  
: SAMPLING FROM 10:00 HOUR ON NOVEMBER 22, 2024 TO 10:00 HOUR ON NOVEMBER 23, 2024.

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR

ANALYSIS REPORT

CUSTOMER NAME  
ADDRESS  
CONTACT INFORMATION  
MEASURING PLACE  
MEASURING TYPE  
MEASURING DATE  
MEASURING TIME  
MEASURING METHOD  
MEASURED BY

: BANGCHAK SRRACHA PUBLIC COMPANY LIMITED  
: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
: TEL: 0-2-554-1234 FAX: 0-2-554-1235 E-MAIL: uaee@uaeeconsultant.com  
: REFINERY GATE  
: AMBIENT (AIR)  
: NOVEMBER 16-23, 2024  
: NOVEMBER 16-23, 2024  
: NOVEMBER 29, 2024  
: \*  
: CHEMILUMINESCENCE  
: MR SIRAPAT JONGPHADJUNGKIEI  
: 2019-02022  
: T2488854-0001 - T2488854-0007

RECEIVED DATE  
ANALYTICAL DATE  
ISSUE DATE  
REPORT NO.  
WORK NO.  
ANALYSIS NO.

: NOVEMBER 16-23, 2024  
: NOVEMBER 16-23, 2024  
: NOVEMBER 29, 2024  
: 2024-U111891  
: 2019-02022  
: T2488854-0001 - T2488854-0007

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	REFINERY GATE		
	NOVEMBER 16-17, 2024 T2488854-0001	NOVEMBER 17-18, 2024 T2488854-0002	NOVEMBER 18-19, 2024 T2488854-0003
08:00-09:00 HOUR	0.0167	0.0169	0.0153
09:00-10:00 HOUR	0.0169	0.0163	0.0170
10:00-11:00 HOUR	0.0163	0.0158	0.0156
11:00-12:00 HOUR	0.0165	0.0153	0.0156
12:00-13:00 HOUR	0.0171	0.0163	0.0164
13:00-14:00 HOUR	0.0164	0.0177	0.0167
14:00-15:00 HOUR	0.0166	0.0161	0.0152
15:00-16:00 HOUR	0.0165	0.0162	0.0152
16:00-17:00 HOUR	0.0167	0.0166	0.0172
17:00-18:00 HOUR	0.0152	0.0158	0.0169
18:00-19:00 HOUR	0.0161	0.0164	0.0167
19:00-20:00 HOUR	0.0155	0.0167	0.0150
20:00-21:00 HOUR	0.0154	0.0162	0.0158
21:00-22:00 HOUR	0.0136	0.0174	0.0172
22:00-23:00 HOUR	0.0154	0.0173	0.0169
23:00-00:00 HOUR	0.0129	0.0172	0.0170
00:00-01:00 HOUR	0.0138	0.0169	0.0156
01:00-02:00 HOUR	0.0141	0.0156	0.0170
02:00-03:00 HOUR	0.0142	0.0150	0.0154
03:00-04:00 HOUR	0.0143	0.0161	0.0174
04:00-05:00 HOUR	0.0158	0.0173	0.0157
05:00-06:00 HOUR	0.0157	0.0168	0.0166
06:00-07:00 HOUR	0.0171	0.0174	0.0175
07:00-08:00 HOUR	0.0171	0.0167	0.0152

RESULT (ppm)

TIME *	NITROGEN DIOXIDE		
	REFINERY GATE		
	NOVEMBER 19-20, 2024 T2488854-0004	NOVEMBER 20-21, 2024 T2488854-0005	NOVEMBER 21-22, 2024 T2488854-0006
08:00-09:00 HOUR	0.0175	0.0168	0.0152
09:00-10:00 HOUR	0.0152	0.0177	0.0174
10:00-11:00 HOUR	0.0177	0.0171	0.0148
11:00-12:00 HOUR	0.0162	0.0156	0.0154
12:00-13:00 HOUR	0.0172	0.0158	0.0173
13:00-14:00 HOUR	0.0174	0.0171	0.0173
14:00-15:00 HOUR	0.0158	0.0168	0.0166
15:00-16:00 HOUR	0.0164	0.0159	0.0155
16:00-17:00 HOUR	0.0171	0.0137	0.0164
17:00-18:00 HOUR	0.0153	0.0156	0.0175
18:00-19:00 HOUR	0.0160	0.0160	0.0161
19:00-20:00 HOUR	0.0160	0.0140	0.0164
20:00-21:00 HOUR	0.0165	0.0137	0.0154
21:00-22:00 HOUR	0.0156	0.0153	0.0147
22:00-23:00 HOUR	0.0164	0.0145	0.0145
23:00-00:00 HOUR	0.0166	0.0140	0.0150
00:00-01:00 HOUR	0.0159	0.0143	0.0158
01:00-02:00 HOUR	0.0160	0.0150	0.0135
02:00-03:00 HOUR	0.0163	0.0131	0.0133
03:00-04:00 HOUR	0.0161	0.0142	0.0144
04:00-05:00 HOUR	0.0171	0.0150	0.0138
05:00-06:00 HOUR	0.0161	0.0155	0.0152
06:00-07:00 HOUR	0.0165	0.0152	0.0156
07:00-08:00 HOUR	0.0172	0.0177	0.0152

(MR. SILA BANJONGTAIRUK)  
LABORATORY SUPERVISOR



ANALYSIS REPORT

CUSTOMER NAME

ADDRESS

CONTACT INFORMATION

MEASURING PLACE

MEASURING TYPE

MEASURING DATE

MEASURING TIME

MEASURING METHOD

MEASURED BY

: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED

: 118 MOO 2 THUNG SUKHIA SI RACHA CHON BURI 20230

: [REDACTED]

: REFINERY GATE

: AMBIENT (AIR)

: NOVEMBER 16-23, 2024

: \*

: UV FLUORESCENCE

: MR SIRAPAT JONGPHADUNGKIE

RECEIVED DATE

ANALYTICAL DATE

ISSUE DATE

REPORT NO.

WORK NO.

ANALYSIS NO.

: NOVEMBER 16-23, 2024

: NOVEMBER 16-23, 2024

: NOVEMBER 29, 2024

: 2024-U11895

: 2019-002022

: T248B854-0001 - T248B854-0007

TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	REFINERY GATE			
	NOVEMBER 16-17, 2024		NOVEMBER 17-18, 2024	
	T248B854-0001		T248B854-0002	
08:00-09:00 HOUR	0.0056	0.0060	0.0035	0.0035
09:00-10:00 HOUR	0.0062	0.0064	0.0034	0.0034
10:00-11:00 HOUR	0.0047	0.0038	0.0042	0.0042
11:00-12:00 HOUR	0.0048	0.0050	0.0036	0.0036
12:00-13:00 HOUR	0.0060	0.0032	0.0052	0.0052
13:00-14:00 HOUR	0.0050	0.0065	0.0034	0.0034
14:00-15:00 HOUR	0.0060	0.0051	0.0054	0.0054
15:00-16:00 HOUR	0.0048	0.0046	0.0053	0.0053
16:00-17:00 HOUR	0.0035	0.0059	0.0033	0.0033
17:00-18:00 HOUR	0.0038	0.0056	0.0052	0.0052
18:00-19:00 HOUR	0.0055	0.0053	0.0034	0.0034
19:00-20:00 HOUR	0.0065	0.0049	0.0045	0.0045
20:00-21:00 HOUR	0.0062	0.0055	0.0031	0.0031
21:00-22:00 HOUR	0.0034	0.0040	0.0043	0.0043
22:00-23:00 HOUR	0.0062	0.0034	0.0048	0.0048
23:00-00:00 HOUR	0.0049	0.0055	0.0051	0.0051
00:00-01:00 HOUR	0.0042	0.0041	0.0042	0.0042
01:00-02:00 HOUR	0.0031	0.0032	0.0042	0.0042
02:00-03:00 HOUR	0.0063	0.0053	0.0043	0.0043
03:00-04:00 HOUR	0.0061	0.0031	0.0035	0.0035
04:00-05:00 HOUR	0.0046	0.0046	0.0039	0.0034
05:00-06:00 HOUR	0.0042	0.0036	0.0037	0.0037
06:00-07:00 HOUR	0.0036	0.0046	0.0039	0.0039
07:00-08:00 HOUR	0.0049	0.0047	0.0041	0.0041
AVERAGE 24 HOUR				

TIME *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	REFINERY GATE			
	NOVEMBER 19-20, 2024		NOVEMBER 20-21, 2024	
	T248B854-0004		T248B854-0005	
08:00-09:00 HOUR	0.0040	0.0034	0.0064	0.0065
09:00-10:00 HOUR	0.0039	0.0054	0.0034	0.0031
10:00-11:00 HOUR	0.0042	0.0037	0.0055	0.0041
11:00-12:00 HOUR	0.0040	0.0059	0.0047	0.0032
12:00-13:00 HOUR	0.0049	0.0042	0.0038	0.0057
13:00-14:00 HOUR	0.0044	0.0045	0.0051	0.0056
14:00-15:00 HOUR	0.0040	0.0040	0.0050	0.0048
15:00-16:00 HOUR	0.0045	0.0035	0.0040	0.0053
16:00-17:00 HOUR	0.0047	0.0057	0.0060	0.0056
17:00-18:00 HOUR	0.0037	0.0050	0.0057	0.0058
18:00-19:00 HOUR	0.0045	0.0062	0.0031	0.0045
19:00-20:00 HOUR	0.0039	0.0032	0.0052	0.0034
20:00-21:00 HOUR	0.0059	0.0056	0.0036	0.0059
21:00-22:00 HOUR	0.0040	0.0041	0.0054	0.0052
22:00-23:00 HOUR	0.0033	0.0051	0.0061	0.0036
23:00-00:00 HOUR	0.0046	0.0033	0.0060	0.0036
00:00-01:00 HOUR	0.0040	0.0054	0.0036	0.0035
01:00-02:00 HOUR	0.0032	0.0034	0.0049	0.0041
02:00-03:00 HOUR	0.0036	0.0043	0.0064	0.0031
03:00-04:00 HOUR	0.0056	0.0056	0.0053	0.0058
04:00-05:00 HOUR	0.0033	0.0035	0.0064	0.0040
05:00-06:00 HOUR	0.0057	0.0036	0.0065	0.0054
06:00-07:00 HOUR	0.0040	0.0032	0.0063	0.0058
07:00-08:00 HOUR	0.0059	0.0043	0.0064	0.0031
AVERAGE 24 HOUR	0.0043	0.0044	0.0052	0.0046

(MR SILA BANONGJAIIRUK)  
LABORATORY SUPERVISOR

ทิศทางและความเร็วลม

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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 :   
MEASURING PLACE : BAN AO UDOM  
MEASURING TYPE : AMBIENT (AIR)  
MEASURING DATE : NOVEMBER 16-23, 2024  
MEASURING TIME : \*  
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT  
MEASURED BY : MR SRIPAT JONGPHADUNGKET  
RECEIVED DATE : NOVEMBER 16-23, 2024  
ANALYTICAL DATE : NOVEMBER 16-23, 2024  
ISSUE DATE : NOVEMBER 29, 2024  
REPORT NO. : 2024-U111905  
WORK NO. : 2019-02022  
ANALYSIS NO. : T248B854-0008 - T248B854-0014

TIME *	RESULT (m/s)					
	BAN AO UDOM			BAN AO UDOM		
	NOVEMBER 16-17, 2024		NOVEMBER 17-18, 2024		NOVEMBER 18-19, 2024	
	T248B854-0008		T248B854-0009		T248B854-0010	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	2.3	WNW	3.0	S	1.6	SW
09:00-10:00 HOUR	1.2	WSW	1.3	SW	1.8	S
10:00-11:00 HOUR	1.8	SW	1.2	NE	2.5	NE
11:00-12:00 HOUR	2.6	SSE	3.5	N	2.6	NE
12:00-13:00 HOUR	1.5	NW	1.5	ENE	3.2	N
13:00-14:00 HOUR	3.3	NNE	0.5	WSW	1.3	ENE
14:00-15:00 HOUR	1.4	SE	1.2	E	1.5	NW
15:00-16:00 HOUR	1.0	SSE	2.8	SSE	3.1	SW
16:00-17:00 HOUR	1.5	E	1.3	SE	2.1	WNW
17:00-18:00 HOUR	1.2	N	2.1	ENE	1.0	NW
18:00-19:00 HOUR	2.2	N	1.6	NNE	1.6	S
19:00-20:00 HOUR	1.8	E	0.7	N	2.5	S
20:00-21:00 HOUR	1.8	NW	1.3	W	2.8	NW
21:00-22:00 HOUR	1.7	SE	1.4	NW	3.0	N
22:00-23:00 HOUR	1.2	W	2.3	NE	0.6	ESE
23:00-00:00 HOUR	3.0	N	1.2	SW	0.6	ESE
00:00-01:00 HOUR	2.0	WNW	3.2	ENE	1.9	E
01:00-02:00 HOUR	0.9	SSE	1.4	NE	3.2	S
02:00-03:00 HOUR	1.2	NE	2.7	NE	3.0	NE
03:00-04:00 HOUR	1.3	NNE	2.6	E	2.5	E
04:00-05:00 HOUR	2.7	SW	2.2	ESE	0.6	W
05:00-06:00 HOUR	1.1	NE	2.8	E	3.5	SSW
06:00-07:00 HOUR	0.7	NNW	2.6	SE	3.1	ENE
07:00-08:00 HOUR	1.2	NE	2.6	WNW	0.9	SSW



RESULT (m/s)

TIME *	BAN AO UDOM					
	NOVEMBER 19-20, 2024		NOVEMBER 20-21, 2024		NOVEMBER 21-22, 2024	
	T248B854-0011		T248B854-0012		T248B854-0013	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	0.7	SE	3.3	E	1.0	E
09:00-10:00 HOUR	2.7	ESE	1.9	SW	0.6	ENE
10:00-11:00 HOUR	0.7	N	1.0	SSE	3.5	SW
11:00-12:00 HOUR	3.3	WSW	1.7	ENE	2.1	ESE
12:00-13:00 HOUR	1.9	NW	1.9	E	2.7	WSW
13:00-14:00 HOUR	1.4	E	2.8	W	1.1	NE
14:00-15:00 HOUR	2.2	WSW	1.8	ESE	2.6	NNE
15:00-16:00 HOUR	1.8	S	0.8	WNW	3.0	S
16:00-17:00 HOUR	1.4	NNE	2.1	N	3.2	S
17:00-18:00 HOUR	3.2	W	2.7	SW	1.0	WNW
18:00-19:00 HOUR	1.3	ENE	2.7	E	3.5	NNE
19:00-20:00 HOUR	1.6	ESE	2.0	ENE	0.7	ENE
20:00-21:00 HOUR	1.6	ENE	2.2	SSW	1.9	SE
21:00-22:00 HOUR	3.2	S	0.5	ESE	1.5	SE
22:00-23:00 HOUR	3.2	NNW	0.6	NNW	1.1	WNW
23:00-00:00 HOUR	1.0	N	1.4	W	2.0	WNW
00:00-01:00 HOUR	3.3	NW	1.4	SSE	1.7	S
01:00-02:00 HOUR	1.9	SW	1.0	SSW	1.8	NNE
02:00-03:00 HOUR	3.5	ESE	2.8	ENE	2.4	E
03:00-04:00 HOUR	2.2	NW	3.5	SW	2.0	ESE
04:00-05:00 HOUR	2.3	NE	1.6	NNW	1.0	WNW
05:00-06:00 HOUR	1.6	NE	3.0	ESE	3.2	WNW
06:00-07:00 HOUR	1.2	SW	1.0	SSW	3.3	SSW
07:00-08:00 HOUR	1.3	SSW	2.5	NE	1.0	SW

(MR SILA BANJONGAIRUK)  
LABORATORY SUPERVISOR





ANALYSIS REPORT

CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
CONTACT INFORMATION :  
MEASURING PLACE : LAM CHABANG PORT'S GATE  
MEASURING TYPE : AMBIENT (AIR)  
MEASURING DATE : NOVEMBER 16-23, 2024  
MEASURING TIME :  
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT  
MEASURED BY : MR SIRAPAT JONGPHADUNGKIE  
RECEIVED DATE : NOVEMBER 16-23, 2024  
ANALYTICAL DATE : NOVEMBER 16-23, 2024  
ISSUE DATE : NOVEMBER 29, 2024  
REPORT NO. : 2024-U111907  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24HB854-0015 - T24HB854-0021

TIME *	RESULT (m/s)					
	LAM CHABANG PORT'S GATE					
	NOVEMBER 16-17, 2024 T24HB854-0015		NOVEMBER 17-18, 2024 T24HB854-0016		NOVEMBER 18-19, 2024 T24HB854-0017	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	3.1	NNW	2.7	NE	3.1	E
09:00-10:00 HOUR	1.6	W	2.2	WSW	1.0	S
10:00-11:00 HOUR	3.0	SSE	3.0	NW	3.3	E
11:00-12:00 HOUR	2.7	WSW	0.5	ENE	1.2	WNW
12:00-13:00 HOUR	2.3	WNW	2.6	NNE	1.6	W
13:00-14:00 HOUR	1.6	SSE	1.5	SSE	3.4	N
14:00-15:00 HOUR	1.1	W	2.6	W	0.9	WSW
15:00-16:00 HOUR	0.9	SE	2.7	ENE	3.2	NNW
16:00-17:00 HOUR	1.0	SW	2.3	NNW	2.7	WSW
17:00-18:00 HOUR	0.7	ESE	1.5	SE	1.8	ESE
18:00-19:00 HOUR	0.6	SW	1.7	S	0.5	SW
19:00-20:00 HOUR	1.2	S	1.6	ESE	1.9	NE
20:00-21:00 HOUR	3.1	ESE	2.9	S	2.6	SSE
21:00-22:00 HOUR	2.3	SSE	0.6	NW	2.6	W
22:00-23:00 HOUR	1.2	NW	0.7	NW	0.5	E
23:00-00:00 HOUR	2.3	N	2.0	ENE	2.4	NE
00:00-01:00 HOUR	1.6	WSW	1.6	WNW	3.2	NW
01:00-02:00 HOUR	2.6	WNW	2.1	E	3.0	S
02:00-03:00 HOUR	1.2	W	3.2	SSW	2.0	SE
03:00-04:00 HOUR	1.3	SE	2.9	WSW	0.8	SW
04:00-05:00 HOUR	1.4	SSE	1.1	W	3.3	ESE
05:00-06:00 HOUR	3.1	SW	0.8	SSW	3.3	NE
06:00-07:00 HOUR	1.9	SSW	2.0	SSE	1.3	S
07:00-08:00 HOUR	2.8	NNW	1.6	S	2.1	SSW



RESULT (m/s)

TIME *	LAM CHABANG PORT'S GATE					
	NOVEMBER 19-20, 2024 T24HB854-0018		NOVEMBER 20-21, 2024 T24HB854-0019		NOVEMBER 21-22, 2024 T24HB854-0020	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	1.9	ENE	1.2	WNW	3.4	ESE
09:00-10:00 HOUR	2.7	SSW	0.7	S	3.3	SE
10:00-11:00 HOUR	2.1	WNW	2.4	SE	1.5	SE
11:00-12:00 HOUR	1.9	NE	1.4	E	1.7	NE
12:00-13:00 HOUR	1.9	S	0.5	S	2.9	S
13:00-14:00 HOUR	2.7	ESE	3.3	SSW	3.4	SE
14:00-15:00 HOUR	0.5	WNW	1.2	WSW	2.9	WNW
15:00-16:00 HOUR	3.1	SSE	2.0	ESE	2.4	NW
16:00-17:00 HOUR	2.3	NNE	3.4	S	1.5	S
17:00-18:00 HOUR	1.6	NE	1.8	SW	1.8	WNW
18:00-19:00 HOUR	1.4	WSW	1.1	E	2.9	SE
19:00-20:00 HOUR	1.2	N	2.1	S	0.6	S
20:00-21:00 HOUR	2.0	SSW	2.1	SSW	0.7	WSW
21:00-22:00 HOUR	3.2	NNW	2.1	NNE	2.3	N
22:00-23:00 HOUR	2.0	NNW	0.5	ENE	1.4	SSW
23:00-00:00 HOUR	0.6	N	1.3	NE	3.2	WNW
00:00-01:00 HOUR	1.3	NW	1.1	NNW	2.6	NNE
01:00-02:00 HOUR	1.9	W	2.2	SSW	1.2	N
02:00-03:00 HOUR	0.9	SE	0.6	WSW	2.6	E
03:00-04:00 HOUR	2.8	ESE	3.3	WSW	1.6	E
04:00-05:00 HOUR	3.0	SE	2.1	SE	0.5	ENE
05:00-06:00 HOUR	1.4	SE	0.8	S	2.0	N
06:00-07:00 HOUR	2.9	W	1.4	SW	1.8	WSW
07:00-08:00 HOUR	1.0	S	1.4	NW	2.5	S

(MR. SILA BANJONGJAIKUL)  
LABORATORY SUPERVISOR



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

## ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHILA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** :  
**MEASURING PLACE** : K.U.STATION  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : NOVEMBER 16-23, 2024  
**MEASURING TIME** : \*  
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIEI  
**RECEIVED DATE** : NOVEMBER 16-23, 2024  
**ANALYTICAL DATE** : NOVEMBER 16-23, 2024  
**ISSUE DATE** : NOVEMBER 29, 2024  
**REPORT NO.** : 2024-U111909  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T248B854-0022 - T248B854-0028

TIME *	RESULT (m/s)					
	K.U.STATION					
	NOVEMBER 16-17, 2024 T248B854-0022		NOVEMBER 17-18, 2024 T248B854-0023		NOVEMBER 18-19, 2024 T248B854-0024	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	2.1	NNE	0.9	E	1.8	W
09:00-10:00 HOUR	0.7	NNW	2.4	ENE	3.3	E
10:00-11:00 HOUR	1.6	SW	1.1	S	1.2	ENE
11:00-12:00 HOUR	2.2	NNE	2.5	ESE	2.7	ESE
12:00-13:00 HOUR	2.8	NE	1.3	ENE	2.8	NNW
13:00-14:00 HOUR	3.4	N	2.8	WSW	2.4	NNW
14:00-15:00 HOUR	2.1	NNW	3.2	NNE	1.8	SW
15:00-16:00 HOUR	3.2	N	3.1	N	2.6	S
16:00-17:00 HOUR	2.8	NNW	1.9	N	1.2	W
17:00-18:00 HOUR	1.3	NNW	2.2	ESE	3.0	SSW
18:00-19:00 HOUR	1.8	ENE	0.7	W	3.2	NW
19:00-20:00 HOUR	1.6	ENE	2.1	NW	0.7	NNW
20:00-21:00 HOUR	0.6	ESE	2.2	W	1.7	ESE
21:00-22:00 HOUR	2.4	ENE	3.2	E	1.2	W
22:00-23:00 HOUR	2.2	NNW	1.9	SE	3.1	N
23:00-00:00 HOUR	2.4	SW	1.2	WSW	1.2	S
00:00-01:00 HOUR	1.1	WSW	0.6	N	0.9	NW
01:00-02:00 HOUR	2.6	WSW	2.6	NE	3.4	WSW
02:00-03:00 HOUR	1.9	WSW	3.4	E	2.1	SE
03:00-04:00 HOUR	1.8	NNW	1.5	SSE	3.1	NE
04:00-05:00 HOUR	3.3	NW	2.1	SE	2.4	NE
05:00-06:00 HOUR	1.7	SSW	3.0	WSW	1.1	SW
06:00-07:00 HOUR	3.0	WSW	0.6	WSW	2.8	SE
07:00-08:00 HOUR	1.2	SSW	2.8	N	2.1	NNW

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## RESULT (m/s)

TIME *	K.U.STATION					
	NOVEMBER 19-20, 2024 T248B854-0025		NOVEMBER 20-21, 2024 T248B854-0026		NOVEMBER 21-22, 2024 T248B854-0027	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	1.7	N	1.7	WSW	2.2	NNE
09:00-10:00 HOUR	3.0	NNE	2.0	SW	1.3	ENE
10:00-11:00 HOUR	1.2	SW	2.9	S	1.1	NW
11:00-12:00 HOUR	1.2	WSW	3.3	SSW	1.9	SSE
12:00-13:00 HOUR	1.8	ESE	0.8	SSE	3.1	W
13:00-14:00 HOUR	1.0	NNW	3.2	ENE	2.8	WSW
14:00-15:00 HOUR	1.4	ENE	1.6	WSW	2.4	NNW
15:00-16:00 HOUR	2.6	SSW	1.5	SE	1.5	E
16:00-17:00 HOUR	2.7	NNE	1.3	N	1.6	ENE
17:00-18:00 HOUR	0.9	NNW	1.0	SE	1.3	NNW
18:00-19:00 HOUR	0.8	N	0.8	NNW	2.3	NW
19:00-20:00 HOUR	0.7	SE	0.7	NNW	2.6	N
20:00-21:00 HOUR	1.3	S	3.4	W	2.6	NNE
21:00-22:00 HOUR	0.9	WSW	0.9	NE	2.0	ENE
22:00-23:00 HOUR	1.7	NE	1.8	NE	1.1	S
23:00-00:00 HOUR	0.7	SE	1.4	E	3.2	W
00:00-01:00 HOUR	0.9	NNW	0.7	NNW	3.0	SSW
01:00-02:00 HOUR	2.2	NE	3.2	S	0.6	WSW
02:00-03:00 HOUR	2.4	NNW	3.4	SSW	1.9	NNW
03:00-04:00 HOUR	2.7	NE	1.6	ESE	2.4	SW
04:00-05:00 HOUR	2.9	S	2.2	S	3.0	NW
05:00-06:00 HOUR	0.6	SSE	2.7	W	3.5	E
06:00-07:00 HOUR	1.1	WSW	1.3	NNE	2.2	S
07:00-08:00 HOUR	2.4	SW	1.1	SSW	2.8	NNE

(MR SILA BANJONGAIRUK)  
LABORATORY SUPERVISOR

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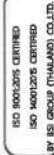




ANALYSIS REPORT

CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
ADDRESS : 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230  
CONTACT INFORMATION :  
MEASURING PLACE : REFINERY GATE  
MEASURING TYPE : AMBIENT (AIR)  
MEASURING DATE : NOVEMBER 16-23, 2024  
MEASURING TIME : \*  
MEASURING METHOD : WIND SPEED & WIND DIRECTION EQUIPMENT  
MEASURED BY : MR SIRAPAT JONGPHADUNGKIEK  
RECEIVED DATE : NOVEMBER 16-23, 2024  
ANALYTICAL DATE : NOVEMBER 16-23, 2024  
ISSUE DATE : NOVEMBER 29, 2024  
REPORT NO. : 2024-U111903  
WORK NO. : 2019-02022  
ANALYSIS NO. : T248B854-0001 - T248B854-0007

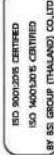
TIME *	RESULT (m/s)					
	REFINERY GATE					
	NOVEMBER 16-17, 2024 T248B854-0001		NOVEMBER 17-18, 2024 T248B854-0002		NOVEMBER 18-19, 2024 T248B854-0003	
08:00-09:00 HOUR	0.7	S	3.3	W	1.8	WNW
09:00-10:00 HOUR	2.9	SE	3.0	WNW	0.7	NNE
10:00-11:00 HOUR	3.5	W	2.0	SSE	2.9	ESE
11:00-12:00 HOUR	2.1	W	1.8	NW	3.4	NNE
12:00-13:00 HOUR	2.9	SSE	2.8	ESE	0.6	E
13:00-14:00 HOUR	3.1	SW	1.6	SE	1.1	SW
14:00-15:00 HOUR	0.9	SSE	1.6	SE	2.7	NE
15:00-16:00 HOUR	1.6	SSW	3.5	W	0.6	SSE
16:00-17:00 HOUR	1.9	SSE	3.4	ENE	3.2	SE
17:00-18:00 HOUR	3.2	E	2.2	SSE	0.8	SW
18:00-19:00 HOUR	0.7	SSW	2.6	NNW	1.0	E
19:00-20:00 HOUR	3.1	N	2.3	WNW	0.6	SSW
20:00-21:00 HOUR	1.2	S	3.5	S	2.4	NE
21:00-22:00 HOUR	1.2	E	2.4	NW	1.9	NNW
22:00-23:00 HOUR	3.2	ESE	1.2	S	1.5	SSE
23:00-00:00 HOUR	0.5	SE	1.8	S	1.1	SE
00:00-01:00 HOUR	1.5	ENE	2.1	NW	1.6	NNE
01:00-02:00 HOUR	0.5	SE	1.4	W	1.4	NNE
02:00-03:00 HOUR	2.3	WNW	0.8	E	3.0	N
03:00-04:00 HOUR	2.6	E	1.4	NNE	1.5	WNW
04:00-05:00 HOUR	2.6	ESE	3.0	ESE	2.8	SE
05:00-06:00 HOUR	0.5	NW	2.0	SSE	1.4	E
06:00-07:00 HOUR	3.3	NNE	2.3	ESE	1.9	ENE
07:00-08:00 HOUR	0.8	SW	0.5	ENE	1.1	NW



RESULT (m/s)

TIME *	REFINERY GATE					
	NOVEMBER 19-20, 2024 T248B854-0004		NOVEMBER 20-21, 2024 T248B854-0005		NOVEMBER 21-22, 2024 T248B854-0006	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	2.2	SE	1.1	WSW	1.6	SW
09:00-10:00 HOUR	0.7	E	2.4	SSW	3.4	NNE
10:00-11:00 HOUR	2.1	S	0.6	N	1.8	WSW
11:00-12:00 HOUR	2.6	NW	3.1	S	0.9	SE
12:00-13:00 HOUR	1.3	WNW	1.9	SSE	2.6	NNW
13:00-14:00 HOUR	3.2	SSW	1.0	WSW	0.5	SSE
14:00-15:00 HOUR	1.0	ENE	1.7	ESE	2.8	SE
15:00-16:00 HOUR	3.0	ESE	1.3	S	2.7	E
16:00-17:00 HOUR	2.2	W	3.3	SW	2.0	NNW
17:00-18:00 HOUR	1.2	WNW	0.6	WSW	1.5	ENE
18:00-19:00 HOUR	0.7	N	0.8	NNW	1.6	W
19:00-20:00 HOUR	3.3	SE	2.0	SSE	3.0	W
20:00-21:00 HOUR	1.0	SSE	1.4	WNW	0.5	WNW
21:00-22:00 HOUR	0.8	ENE	0.5	S	2.1	NE
22:00-23:00 HOUR	3.0	ENE	3.4	SSE	1.0	S
23:00-00:00 HOUR	1.5	WSW	2.4	ENE	2.8	SE
00:00-01:00 HOUR	1.1	E	2.9	SSE	1.3	W
01:00-02:00 HOUR	3.3	W	3.0	N	1.1	NNW
02:00-03:00 HOUR	2.4	S	0.5	ENE	1.7	S
03:00-04:00 HOUR	3.1	ENE	0.6	SE	2.4	NNW
04:00-05:00 HOUR	0.9	SE	1.9	WNW	1.3	SE
05:00-06:00 HOUR	2.8	ESE	2.9	NW	3.4	N
06:00-07:00 HOUR	2.5	SW	1.0	NW	2.3	W
07:00-08:00 HOUR	3.5	ENE	1.8	N	1.5	W

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR





คุณภาพอากาศจากปล่องระบายอากาศ

---

## ANALYSIS REPORT

CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION	: [REDACTED]
SAMPLING SOURCE	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED
SAMPLE TYPE	: STACK
SAMPLING DATE	: NOVEMBER 19, 2024
SAMPLING TIME	: 10:50-12:10 HOUR
SAMPLING BY	: MR PARINYA KLOMKLIAO 7-145-a-0039
ANALYZED BY	: MISS SUWAN KONGTHONG 7-145-a-0025
RECEIVED DATE	: NOVEMBER 22, 2024
ANALYTICAL DATE	: NOVEMBER 22-27, 2024
ISSUE DATE	: NOVEMBER 27, 2024
REPORT NO.	: 2024-U111128
WORK NO.	: 2019-002022
ANALYSIS NO.	: T2-4BBS98-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			APS-1 (F-101) T248598-0001	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	1.32	1.14
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 1.30	< 1.30
OXIDE OF NITROGEN AS NITROGEN DIOXIDE	ppm	ABSORPTION, PHENOLDISULFONIC ACID METHOD (US EPA METHOD 7)	43.5	37.5
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
APS-1 (F-101) T248B598-0001		
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	32.92
STACK TEMPERATURE	°C	380.42
DIAMETER	m	1.65
GAS VELOCITY	m/s	8.57
FLOW RATE	Nm³/hr	25,238.27
OXYGEN	%	4.79
MOISTURE	%	15.86
CARBONDIOXIDE	%	9.19
VOLUME OF DRY GAS AT STP	m³	0.984336

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

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
7-145-A-0011

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- End of Analysis Report -

## ANALYSIS REPORT

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			APS-1 (F-102) T248B598-0002	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	137	1.17
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 130	< 130
OXIDE OF NITROGEN AS NITROGEN DIOXIDE	ppm	ABSORPTION, PHENOLDISULFONIC ACID METHOD (US EPA METHOD 7)	52.8	45.1
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	32.25
STACK TEMPERATURE	°C	225.83
DIAMETER	m	1.52
GAS VELOCITY	m/s	9.49
FLOW RATE	Nm³/hr	34,201.38
OXYGEN	%	4.62
MOISTURE	%	7.42
CARBONDIOXIDE	%	9.3
VOLUME OF DRY GAS AT STP	m³	0.948771

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

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
7-145-a-0011

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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@econormobil.com  
**CONTACTING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : NOVEMBER 22, 2024  
**SAMPLING TIME** : 10:30-11:40 HOUR  
**SAMPLING BY** : MR PARINYA KLOMKLAO 7-145-a-0039  
**ANALYZED BY** : MISS SUWAN KONGTHONG 7-145-a-0025

**RECEIVED DATE** : NOVEMBER 22, 2024  
**ANALYTICAL DATE** : NOVEMBER 22-27, 2024  
**ISSUE DATE** : NOVEMBER 27, 2024  
**REPORT NO.** : 2024-U111146  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T248B598-0010

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			COMMON STACK OF BOILER 3 & 4 T248B598-0010	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	1.36	2.38
SULPHUR DIOXIDE	ppm	ABSORPTION, BARUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 130	< 130
OXIDE OF NITROGEN AS NITROGEN DIOXIDE	ppm	ABSORPTION, PHENOLDISULFONIC ACID METHOD (US EPA METHOD 7)	39.2	68.7
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		COMMON STACK OF BOILER 3 & 4 T248B598-0010
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	30.58
STACK TEMPERATURE	°C	291.83
DIAMETER	m	1.32
GAS VELOCITY	m/s	16.18
FLOW RATE	Nm <sup>3</sup> /hr	36,394.83
OXYGEN	%	12.97
MOISTURE	%	13.17
CARBONDIOXIDE	%	4.55
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.95309

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

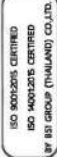
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LABORATORY SUPERVISOR  
7-145-a-0011

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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@econormobil.com  
**CONTACTING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : NOVEMBER 21, 2024  
**SAMPLING TIME** : 09:30-10:50 HOUR  
**SAMPLING BY** : MR PARINYA KLOMKLAO 7-145-a-0039  
**ANALYZED BY** : MISS SUWAN KONGTHONG 7-145-a-0025

**RECEIVED DATE** : NOVEMBER 22, 2024  
**ANALYTICAL DATE** : NOVEMBER 22-27, 2024  
**ISSUE DATE** : NOVEMBER 27, 2024  
**REPORT NO.** : 2024-U111140  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T248B598-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			FCCU REGENERATOR T248B598-0007	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	9.25	6.98
SULPHUR DIOXIDE	ppm	ABSORPTION, BARUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	431	326
OXIDE OF NITROGEN AS NITROGEN DIOXIDE	ppm	ABSORPTION, PHENOLDISULFONIC ACID METHOD (US EPA METHOD 7)	80.8	610
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		FCCU REGENERATOR T248B598-0007
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	30.75
STACK TEMPERATURE	°C	270
DIAMETER	m	1.58
GAS VELOCITY	m/s	39.3
FLOW RATE	Nm <sup>3</sup> /hr	130,074.28
OXYGEN	%	2.49
MOISTURE	%	14.94
CARBONDIOXIDE	%	10.49
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.951737

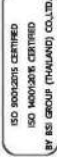
REMARK : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE AND DRY BASIS.

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ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHILA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : [REDACTED]  
**CONTACT SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : NOVEMBER 20, 2024  
**SAMPLING TIME** : 10:20-11:40 HOUR  
**SAMPLING BY** : MR PARINYA KLOMKIJAO 7-145-9-0039  
**ANALYZED BY** : MISS SUWAN KONGTHONG 7-145-9-0025  
**RECEIVED DATE** : NOVEMBER 22, 2024  
**ANALYTICAL DATE** : NOVEMBER 22-27, 2024  
**ISSUE DATE** : NOVEMBER 27, 2024  
**REPORT NO.** : 2024-U111144  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T248B598-0009

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			COMMON STACK OF PAREX FURNACE T248B598-0009	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	147	1.17
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 130	< 130
OXIDE OF NITROGEN AS NITROGEN DIOXIDE	ppm	ABSORPTION, PHENOLDISULFONIC ACID METHOD (US EPA METHOD 7)	15.9	12.7
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		COMMON STACK OF PAREX FURNACE T248B598-0009
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	30.75
STACK TEMPERATURE	°C	214
DIAMETER	m	3.65
GAS VELOCITY	m/s	6.59
FLOW RATE	Nm <sup>3</sup> /hr	131,054.57
OXYGEN	%	3.4
MOISTURE	%	13.34
CARBONDIOXIDE	%	9.98
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.952571

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

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LABORATORY SUPERVISOR  
7-145-9-0011

ANALYSIS REPORT

**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHILA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** : [REDACTED]  
**CONTACT SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : NOVEMBER 18, 2024  
**SAMPLING TIME** : 11:40-12:30 HOUR  
**SAMPLING BY** : MR PARINYA KLOMKIJAO 7-145-9-0039  
**ANALYZED BY** : MISS SUWAN KONGTHONG 7-145-9-0025  
**RECEIVED DATE** : NOVEMBER 22, 2024  
**ANALYTICAL DATE** : NOVEMBER 22-27, 2024  
**ISSUE DATE** : NOVEMBER 27, 2024  
**REPORT NO.** : 2024-U111135  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T248B598-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			GTG-1+HRSG-1 (3001) T248B598-0005	7% OXYGEN
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 130	< 130
OXIDE OF NITROGEN AS NITROGEN DIOXIDE	ppm	ABSORPTION, PHENOLDISULFONIC ACID METHOD (US EPA METHOD 7)	16.2	49.9
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		GTG-1+HRSG-1 (3001) T248B598-0005
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	33
STACK TEMPERATURE	°C	211.75
DIAMETER	m	2.95
GAS VELOCITY	m/s	10.96
FLOW RATE	Nm <sup>3</sup> /hr	151,793.69
OXYGEN	%	16.4
MOISTURE	%	8.18
CARBONDIOXIDE	%	2.6
VOLUME OF DRY GAS AT STP	m <sup>3</sup>	0.597883

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

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LABORATORY SUPERVISOR  
7-145-9-0011

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  
**SAMPLE SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : DECEMBER 9, 2024  
**SAMPLING TIME** : 11:10-12:00 HOUR  
**SAMPLING BY** : MR PARINYA KLOMKIJAO ๓-145-๓-0039  
**ANALYZED BY** : MISS SUWAN KONGTHONG ๓-145-๓-0025  
**RECEIVED DATE** : DECEMBER 11, 2024  
**ANALYTICAL DATE** : DECEMBER 11-13, 2024  
**ISSUE DATE** : DECEMBER 17, 2024  
**REPORT NO.** : 2024-U117610  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T24BD149-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			GTG-2+HRSG-2 (4001) T24BD149-0001	7% OXYGEN
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 130	< 130
OXIDE OF NITROGEN AS NITROGEN DIOXIDE	ppm	ABSORPTION, PHENOLDISULFONIC ACID METHOD (US EPA METHOD 7)	18.3	58.2
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	30.67
STACK TEMPERATURE	°C	221
DIAMETER	m	2.95
GAS VELOCITY	m/s	14.45
FLOW RATE	Nm³/hr	193,682.88
OXYGEN	%	16.38
MOISTURE	%	9.43
CARBONDIOXIDE	%	2.62
VOLUME OF DRY GAS AT STP	m³	0.603996

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

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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  
**SAMPLE SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : NOVEMBER 18, 2024  
**SAMPLING TIME** : 11:10-12:00 HOUR  
**SAMPLING BY** : MR PARINYA KLOMKIJAO ๓-145-๓-0039  
**ANALYZED BY** : MISS SUWAN KONGTHONG ๓-145-๓-0025  
**RECEIVED DATE** : NOVEMBER 22, 2024  
**ANALYTICAL DATE** : NOVEMBER 22-27, 2024  
**ISSUE DATE** : NOVEMBER 27, 2024  
**REPORT NO.** : 2024-U111137  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T24BBS98-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			GTG-3+HRSG-3 (5101) T24BBS98-0006	7% OXYGEN
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 130	< 130
OXIDE OF NITROGEN AS NITROGEN DIOXIDE	ppm	ABSORPTION, PHENOLDISULFONIC ACID METHOD (US EPA METHOD 7)	32.2	87.8
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	31
STACK TEMPERATURE	°C	208.58
DIAMETER	m	3.8
GAS VELOCITY	m/s	14.17
FLOW RATE	Nm³/hr	324,435.91
OXYGEN	%	15.8
MOISTURE	%	9.05
CARBONDIOXIDE	%	3.24
VOLUME OF DRY GAS AT STP	m³	0.614009

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

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



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

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 : stanun.chayochaichana@exxonmobil.com  
**CONTACTING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : NOVEMBER 20, 2024  
**SAMPLING TIME** : 10:10-11:10 HOUR  
**SAMPLING BY** : MR PARINYA KLOMKIJAO 7-145-a-0039  
**ANALYZED BY** : MISS SUWAN KONGTHONG 7-145-a-0025  
**RECEIVED DATE** : NOVEMBER 22, 2024  
**ANALYTICAL DATE** : NOVEMBER 22-27, 2024  
**ISSUE DATE** : NOVEMBER 27, 2024  
**REPORT NO.** : 2024-UJ111133  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T248B598-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			CCR PLATFORM FURNACE (F-3401S) T248B598-0004	7% OXYGEN
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 1.30	< 1.30
OXIDE OF NITROGEN AS NITROGEN DIOXIDE	ppm	ABSORPTION, PHENOLDISULFONIC ACID METHOD (US EPA METHOD 7)	23.4	22.5
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		CCR PLATFORM FURNACE (F-3401S) T248B598-0004
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	28.92
STACK TEMPERATURE	°C	200.5
DIAMETER	m	2.52
GAS VELOCITY	m/s	8.58
FLOW RATE	Nm³/hr	77,899.84
OXYGEN	%	6.45
MOISTURE	%	19.35
CARBONDIOXIDE	%	8.24
VOLUME OF DRY GAS AT STP	m³	0.615261

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



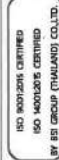
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ANALYSIS REPORT

**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 : stanun.chayochaichana@exxonmobil.com  
**CONTACTING SOURCE** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : NOVEMBER 21, 2024  
**SAMPLING TIME** : 10:00-11:10 HOUR  
**SAMPLING BY** : MR PARINYA KLOMKIJAO 7-145-a-0039  
**ANALYZED BY** : MISS SUWAN KONGTHONG 7-145-a-0025  
**RECEIVED DATE** : NOVEMBER 22, 2024  
**ANALYTICAL DATE** : NOVEMBER 22-27, 2024  
**ISSUE DATE** : NOVEMBER 27, 2024  
**REPORT NO.** : 2024-UJ111131  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T248B598-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			COMMON STACK OF APS2/VPS2 T248B598-0003	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	141	1.14
SULPHUR DIOXIDE	ppm	ABSORPTION, BARIUM-THORIN TITRIMETRIC METHOD AT SITE (US EPA METHOD 6)	< 130	< 130
OXIDE OF NITROGEN AS NITROGEN DIOXIDE	ppm	ABSORPTION, PHENOLDISULFONIC ACID METHOD (US EPA METHOD 7)	30.3	24.4
SAMPLE CONDITION			COMPLETE	

DESCRIPTION	UNIT	RESULT
		COMMON STACK OF APS2/VPS2 T248B598-0003
AMBIENT PRESSURE	mmHg	758
AMBIENT TEMPERATURE	°C	29.92
STACK TEMPERATURE	°C	351.33
DIAMETER	m	3.2
GAS VELOCITY	m/s	13.58
FLOW RATE	Nm³/hr	140,976.75
OXYGEN	%	3.64
MOISTURE	%	24.32
CARBONDIOXIDE	%	9.58
VOLUME OF DRY GAS AT STP	m³	0.991241

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



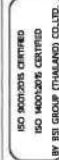
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ANALYSIS REPORT

CUSTOMER NAME		: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	
ADDRESS		: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	
CONTACT INFORMATION		: [REDACTED]	
MEASURING SOURCE		: BAN KON CHA-NANG	
MEASURING TYPE		: AMBIENT (NOISE)	
MEASURING DATE		: OCTOBER 5-8, 2024	
MEASURING TIME		: *	
MEASURING METHOD		: INTEGRATED SOUND LEVEL METER	
MEASURED BY		: MR SIRAPAT JONGPHADUNGKIET	
RECEIVED DATE		: OCTOBER 5-8, 2024	
ANALYTICAL DATE		: OCTOBER 5-8, 2024	
ISSUE DATE		: OCTOBER 18, 2024	
REPORT NO.		: 2024-U097408	
WORK NO.		: 2019-002022	
ANALYSIS NO.		: T24AX930-0001 - T24AX930-0003	

TIME*	RESULT dB(A)	
	BAN KON CHA-NANG	OCTOBER 5 - 6, 2024
	T24AX930-0001	
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour
07:00-08:00 HOUR	49.9	67.6
08:00-09:00 HOUR	51.8	72.4
09:00-10:00 HOUR	52.9	73.9
10:00-11:00 HOUR	57.2	77.0
11:00-12:00 HOUR	53.2	74.8
12:00-13:00 HOUR	58.5	78.0
13:00-14:00 HOUR	52.3	74.0
14:00-15:00 HOUR	50.3	64.9
15:00-16:00 HOUR	53.0	71.2
16:00-17:00 HOUR	58.6	82.3
17:00-18:00 HOUR	52.6	71.7
18:00-19:00 HOUR	51.0	72.7
19:00-20:00 HOUR	51.8	69.4
20:00-21:00 HOUR	53.3	75.7
21:00-22:00 HOUR	53.7	80.1
22:00-23:00 HOUR	54.6	78.9
23:00-00:00 HOUR	54.1	83.6
00:00-01:00 HOUR	52.4	81.9
01:00-02:00 HOUR	50.0	70.6
02:00-03:00 HOUR	47.0	66.6
03:00-04:00 HOUR	47.3	67.5
04:00-05:00 HOUR	44.1	59.4
05:00-06:00 HOUR	45.0	61.4
06:00-07:00 HOUR	51.4	79.9
L <sub>Aeq</sub> 24 hours	53.3	
L <sub>Ain</sub>	58.0	

RESULT dB(A)

TIME*	BAN KON CHA-NANG	
	OCTOBER 6 - 7, 2024	T24AX930-0002
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour
07:00-08:00 HOUR	45.5	67.4
08:00-09:00 HOUR	47.6	68.4
09:00-10:00 HOUR	51.9	70.6
10:00-11:00 HOUR	43.7	55.2
11:00-12:00 HOUR	53.3	77.3
12:00-13:00 HOUR	44.1	56.1
13:00-14:00 HOUR	43.7	54.5
14:00-15:00 HOUR	50.9	73.5
15:00-16:00 HOUR	42.3	59.4
16:00-17:00 HOUR	43.9	58.3
17:00-18:00 HOUR	41.7	61.1
18:00-19:00 HOUR	41.5	65.4
19:00-20:00 HOUR	44.9	68.7
20:00-21:00 HOUR	42.1	62.1
21:00-22:00 HOUR	53.8	81.4
22:00-23:00 HOUR	44.4	63.7
23:00-00:00 HOUR	42.8	54.1
00:00-01:00 HOUR	46.5	60.4
01:00-02:00 HOUR	48.6	68.3
02:00-03:00 HOUR	44.4	47.8
03:00-04:00 HOUR	45.0	51.9
04:00-05:00 HOUR	43.8	52.0
05:00-06:00 HOUR	44.5	57.4
06:00-07:00 HOUR	43.9	64.0
L <sub>Aeq</sub> 24 hours	47.4	
L <sub>Ain</sub>	52.2	

RESULT dB(A)			
BAN KON CHA-NANG			
OCTOBER 7 - 8, 2024			
T24AX930-0003			
TIME*	L <sub>Aeq</sub> 1 hour		L <sub>A90</sub> 1 hour
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	
07:00-08:00 HOUR	43.5	51.1	42.5
08:00-09:00 HOUR	43.9	52.6	43.2
09:00-10:00 HOUR	41.6	51.7	39.8
10:00-11:00 HOUR	44.8	50.1	43.0
11:00-12:00 HOUR	45.9	53.1	43.7
12:00-13:00 HOUR	48.1	62.0	45.9
13:00-14:00 HOUR	47.3	56.0	46.2
14:00-15:00 HOUR	47.7	52.6	46.8
15:00-16:00 HOUR	48.1	55.2	46.9
16:00-17:00 HOUR	48.0	52.9	46.8
17:00-18:00 HOUR	48.7	60.4	46.8
18:00-19:00 HOUR	47.8	54.1	46.8
19:00-20:00 HOUR	47.8	59.0	45.5
20:00-21:00 HOUR	46.7	62.9	44.5
21:00-22:00 HOUR	46.6	59.6	44.5
22:00-23:00 HOUR	46.0	58.6	44.6
23:00-00:00 HOUR	45.3	49.2	44.2
00:00-01:00 HOUR	45.0	51.4	43.7
01:00-02:00 HOUR	46.4	58.3	44.5
02:00-03:00 HOUR	45.1	56.7	42.3
03:00-04:00 HOUR	43.3	56.1	41.2
04:00-05:00 HOUR	45.2	58.6	41.3
05:00-06:00 HOUR	44.3	58.3	40.9
06:00-07:00 HOUR	44.9	59.6	40.2
L <sub>Aeq</sub> 24 hours	46.3		
L <sub>Adn</sub>	51.8		



(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.chayochoichana@exonmobil.com  
**MEASURING SOURCE** : BAN NHONG AUNG  
**MEASURING TYPE** : AMBIENT (NOISE)  
**MEASURING DATE** : OCTOBER 5-8, 2024  
**MEASURING TIME** : \*  
**MEASURING METHOD** : INTEGRATED SOUND LEVEL METER  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : OCTOBER 5-8, 2024  
**ANALYTICAL DATE** : OCTOBER 5-8, 2024  
**ISSUE DATE** : OCTOBER 18, 2024  
**REPORT NO.** : 2024-U097414  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T24AX930-0004 - T24AX930-0006

RESULT dB(A)			
BAN NHONG AUNG			
OCTOBER 5 - 6, 2024			
T24AX930-0004			
TIME*	L <sub>Aeq</sub> 1 hour		L <sub>A90</sub> 1 hour
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	
07:00-08:00 HOUR	46.0	70.4	41.3
08:00-09:00 HOUR	47.9	64.4	42.2
09:00-10:00 HOUR	48.4	73.7	42.5
10:00-11:00 HOUR	55.5	79.6	41.1
11:00-12:00 HOUR	59.4	82.5	42.5
12:00-13:00 HOUR	55.8	79.1	43.8
13:00-14:00 HOUR	54.2	76.6	47.4
14:00-15:00 HOUR	58.0	87.5	47.3
15:00-16:00 HOUR	54.1	73.3	46.3
16:00-17:00 HOUR	59.7	84.3	47.7
17:00-18:00 HOUR	57.8	84.0	51.1
18:00-19:00 HOUR	57.7	83.0	50.5
19:00-20:00 HOUR	58.3	81.3	50.5
20:00-21:00 HOUR	53.2	64.7	50.5
21:00-22:00 HOUR	50.4	66.9	46.3
22:00-23:00 HOUR	53.8	70.0	47.3
23:00-00:00 HOUR	61.4	80.6	47.5
00:00-01:00 HOUR	60.6	81.0	45.3
01:00-02:00 HOUR	50.1	71.6	44.1
02:00-03:00 HOUR	53.3	77.1	43.7
03:00-04:00 HOUR	61.0	83.8	44.2
04:00-05:00 HOUR	53.8	72.3	44.7
05:00-06:00 HOUR	52.4	75.9	42.7
06:00-07:00 HOUR	53.4	71.6	44.3
L <sub>Aeq</sub> 24 hours	56.6		
L <sub>Adn</sub>	63.7		



TIME*	RESULT dB(A)		
	BAN NHONG AUNG		
	OCTOBER 6 - 7, 2024		
	T24AX930-0005		L <sub>eq</sub> 1 hour
	L <sub>eq</sub> 1 hour	L <sub>max</sub> 1 hour	
07:00-08:00 HOUR	51.5	68.1	45.0
08:00-09:00 HOUR	50.9	68.6	44.8
09:00-10:00 HOUR	51.4	70.7	46.0
10:00-11:00 HOUR	49.5	65.3	44.5
11:00-12:00 HOUR	46.9	54.1	44.2
12:00-13:00 HOUR	51.9	72.2	44.6
13:00-14:00 HOUR	52.7	75.3	46.1
14:00-15:00 HOUR	47.9	64.0	44.4
15:00-16:00 HOUR	48.9	65.1	45.1
16:00-17:00 HOUR	50.2	69.1	45.5
17:00-18:00 HOUR	55.3	74.8	46.7
18:00-19:00 HOUR	53.4	81.8	45.5
19:00-20:00 HOUR	50.0	62.0	46.0
20:00-21:00 HOUR	51.1	71.9	44.5
21:00-22:00 HOUR	48.8	68.6	44.4
22:00-23:00 HOUR	52.4	73.7	45.6
23:00-00:00 HOUR	52.9	72.3	44.0
00:00-01:00 HOUR	50.1	67.9	44.9
01:00-02:00 HOUR	48.4	64.3	44.8
02:00-03:00 HOUR	48.8	63.8	44.5
03:00-04:00 HOUR	50.5	70.3	44.7
04:00-05:00 HOUR	48.8	67.7	44.2
05:00-06:00 HOUR	52.7	73.4	46.5
06:00-07:00 HOUR	55.0	74.8	45.9
L <sub>eq</sub> 24 hours	51.4		58.0
L <sub>dn</sub>			

TIME*	RESULT dB(A)		
	BAN NHONG AUNG		
	OCTOBER 7 - 8, 2024		
	T24AX930-0006		L <sub>eq</sub> 1 hour
	L <sub>eq</sub> 1 hour	L <sub>max</sub> 1 hour	
07:00-08:00 HOUR	53.4	77.4	45.7
08:00-09:00 HOUR	51.1	69.9	45.6
09:00-10:00 HOUR	54.6	72.1	47.0
10:00-11:00 HOUR	53.1	69.3	46.4
11:00-12:00 HOUR	55.2	73.5	47.4
12:00-13:00 HOUR	54.0	71.2	47.0
13:00-14:00 HOUR	54.5	82.2	46.7
14:00-15:00 HOUR	51.8	69.7	44.4
15:00-16:00 HOUR	58.8	80.9	44.2
16:00-17:00 HOUR	49.4	74.6	42.8
17:00-18:00 HOUR	51.6	70.9	43.2
18:00-19:00 HOUR	54.6	73.7	43.4
19:00-20:00 HOUR	54.3	76.9	43.3
20:00-21:00 HOUR	51.0	73.1	43.4
21:00-22:00 HOUR	53.7	71.6	44.1
22:00-23:00 HOUR	49.7	66.1	45.5
23:00-00:00 HOUR	52.5	73.2	46.3
00:00-01:00 HOUR	51.2	71.4	45.8
01:00-02:00 HOUR	51.3	70.8	45.6
02:00-03:00 HOUR	50.0	64.3	45.8
03:00-04:00 HOUR	50.4	65.0	45.2
04:00-05:00 HOUR	55.7	80.4	43.2
05:00-06:00 HOUR	46.7	56.0	44.0
06:00-07:00 HOUR	46.9	59.1	44.4
L <sub>eq</sub> 24 hours	53.2		58.2
L <sub>dn</sub>			

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

คุณภาพน้ำทิ้ง และคุณภาพน้ำทะเล

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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 :  
SAMPLING SOURCE :  
SAMPLE TYPE : WASTEWATER  
SAMPLING DATE : JULY 4, 2024  
SAMPLING TIME : 10:50 HOUR  
SAMPLING METHOD : GRAB  
SAMPLING BY : MR THANADET WANSANOR  
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM  
RECEIVED DATE : JULY 5, 2024  
ANALYTICAL DATE : JULY 5-12, 2024  
ISSUE DATE : JULY 16, 2024  
REPORT NO. : 2024-U064664  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24AP139-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT LBW001 : INLET API T24AP139-0001	DETECTION LIMIT
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	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	181	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5220 C)	304	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	228	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	5.716	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD(SM: PART 4500-S <sup>2</sup> D)	0.17	0.02
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	28	3
CYANIDE <sup>c</sup>	mg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN C AND PART 4500-CN E)	0.019	0.005
SAMPLE CONDITION		BROWNTURBID BROWN		
WATER'S COLOUR/TURBID SEDIMENT				

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.  
RELEASE ORDER NO. : EV-04-07-002

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

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United Analyst and Engineering Consultant Co., Ltd.

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 :  
SAMPLING SOURCE :  
SAMPLE TYPE : WASTEWATER  
SAMPLING DATE : AUGUST 1, 2024  
SAMPLING TIME : 09:50 HOUR  
SAMPLING METHOD : GRAB  
SAMPLING BY : MR THANADET WANSANOR  
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM  
RECEIVED DATE : AUGUST 2, 2024  
ANALYTICAL DATE : AUGUST 2-8, 2024  
ISSUE DATE : AUGUST 13, 2024  
REPORT NO. : 2024-U073569  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24AR292-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT LBW001 : INLET API T24AR292-0001	DETECTION LIMIT
pH <sup>a</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.6 (25°C)	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	43	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	275	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5220 C)	536	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	94.3	5.0
TOTAL DISSOLVED SOLIDS <sup>b</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	3.030	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD(SM: PART 4500-S <sup>2</sup> D)	164	0.02
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	62	3
CYANIDE <sup>c</sup>	mg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN C AND PART 4500-CN E)	0.058	0.005
SAMPLE CONDITION		BROWNTURBID BROWN		
WATER'S COLOUR/TURBID SEDIMENT				

<sup>a</sup> : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
<sup>b</sup> : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
<sup>c</sup> : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.  
RELEASE ORDER NO. : EV-01-08-001

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

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United Analyst and Engineering Consultant Co., Ltd.  
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Tel.0 2763 2828 Fax.0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com



NSC-TISI-TIS 17025  
TESTING 0287

### ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHILA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** :  
**SAMPLING SOURCE** :  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : SEPTEMBER 12, 2024  
**SAMPLING TIME** : 09:00 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS PARICHAT TONGBAI

**RECEIVED DATE** : SEPTEMBER 13, 2024  
**ANALYTICAL DATE** : SEPTEMBER 13-19, 2024  
**ISSUE DATE** : SEPTEMBER 23, 2024  
**REPORT NO.** : 2024-U088166  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T24AV173-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			LBW001 : INLET API T24AV173-0001		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	6.9 (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 <sub>2</sub> G)	179		2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5220 C)	308		25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	140		5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	7,882		25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD(SM: PART 4500-S <sup>2-</sup> D)	0.06		0.02
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	50		3
CYANIDE <sup>c</sup>	mg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN C AND PART 4500-CN E)	< 0.005		0.005
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID SEDIMENT			GREY/TURBID BLACK		

<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.

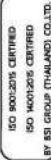
RELEASE ORDER NO. : EV-12-09-004

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

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

### ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHILA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** :  
**SAMPLING SOURCE** :  
**SAMPLE TYPE** : WASTEWATER  
**SAMPLING DATE** : SEPTEMBER 12, 2024  
**SAMPLING TIME** : 09:00 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR THANADET WANSANOR  
**ANALYZED BY** : MISS PARICHAT TONGBAI

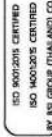
**RECEIVED DATE** : SEPTEMBER 13, 2024  
**ANALYTICAL DATE** : SEPTEMBER 13-17, 2024  
**ISSUE DATE** : SEPTEMBER 23, 2024  
**REPORT NO.** : 2024-U087811  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T24AV177-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			LBW001 : INLET API T24AV177-0003		
TOTAL SOLIDS	mg/L	TOTAL SOLIDS DRIED AT 103-105 °C (SM: PART 2540 B)	8,316		25
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID SEDIMENT			GREY/TURBID BLACK		

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

RELEASE ORDER NO. : EV-12-09-004

(MRS PIYAPAT SUTTAMANUTWONG)  
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PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTIFICATION (LOQ)
			LBW001 : INLET API T248CG45-0001		
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)	< LOQ	0.005	0.020
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			BROWN/TURBID BROWN		

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

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

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

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

RELEASE ORDER NO. : EV-06-12-002

< LOQ  
: < LIMIT OF QUANTITATION (CYANIDE  $\geq 0.005$  AND  $< 0.020$  mg/L).

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			LBW001 : INLET API T24BC845-0002	
TOTAL SOLIDS	mg/L	TOTAL SOLIDS DRIED AT 103-105 °C (SM. PART 2540 B)	13,640	25
<b>SAMPLE CONDITION</b>				
WATER'S COLOUR/TURBID			YELLOW/CLEAR	
SEDIMENT			BROWN	

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

RELEASE ORDER NO.: EV-06-12-002

(MRS PIYAPAT SUTTAMANUTWONG)  
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**LAE** United Analyst and Engineering Consultant Co., Ltd.  
3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260  
Tel.0 2763 2828 Fax.0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com

NSC - TISI - TIS 17025  
TESTING 0207

## ANALYSIS REPORT

**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHILA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** :  
**SAMPLING SOURCE** :  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : JULY 4, 2024  
**SAMPLING TIME** : 10:40 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

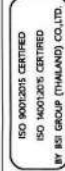
**RECEIVED DATE** : JULY 5, 2024  
**ANALYTICAL DATE** : JULY 5-11, 2024  
**ISSUE DATE** : JULY 16, 2024  
**REPORT NO.** : 2024-U064668  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T24AP139-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			LBW004 : OP OUTLET T24AP139-0005		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.6 (25°C)		-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31		-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O <sub>2</sub> G)	< 2.0		2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5220 C)	92.1		25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	13.0		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
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	2.4		3
CYANIDE <sup>c</sup>	mg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN C AND PART 4500-CN E)	< 0.005		0.005
<b>SAMPLE CONDITION</b>					
WATER'S COLOUR/TURBID				YELLOW/CLEAR	
SEDIMENT				GREEN	

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

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-04-07-002

(MRS PIYAPAT SUTTHANUNTIWONG)  
LABORATORY SUPERVISOR

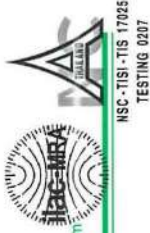


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- End of Analysis Report -

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3 Soi Udomsuk 41, Sukhumvit Road, Bangkok, Phrakhanong, Bangkok 10260  
Tel.0 2763 2828 Fax.0 2763 2800 www.uaeconsultant.com E-mail: uae@uaeconsultant.com



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## ANALYSIS REPORT

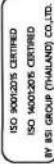
**PROJECT NAME** : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
**CUSTOMER NAME** : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
**ADDRESS** : 118 MOO 2 THUNG SUKHILA SI RACHA CHON BURI 20230  
**CONTACT INFORMATION** :  
**SAMPLING SOURCE** :  
**SAMPLE TYPE** : EFFLUENT  
**SAMPLING DATE** : AUGUST 1, 2024  
**SAMPLING TIME** : 10:05 HOUR  
**SAMPLING METHOD** : GRAB  
**SAMPLING BY** : MR. THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM

**RECEIVED DATE** : AUGUST 2, 2024  
**ANALYTICAL DATE** : AUGUST 2-8, 2024  
**ISSUE DATE** : AUGUST 13, 2024  
**REPORT NO.** : 2024-U073573  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T24AR292-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			LBW004 : OP OUTLET T24AR292-0005		
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.6 (25°C)		-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	31		-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O <sub>2</sub> G)	2.8		2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5220 C)	88.7		25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 C)	20.5		5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 D)	37.220		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)	0.8		3

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PROJECT NAME

CUSTOMER NAME

ADDRESS

CONTACT INFORMATION

SAMPLING SOURCE

SAMPLE TYPE

SAMPLING DATE

SAMPLING TIME

SAMPLING METHOD

SAMPLING BY

ANALYZED BY

: ENVIRONMENTAL & SOCIOECONOMIC SURVEY

: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED

: 118 MOO 2 THUNG SUKHILA SI RACHA CHON BURI 20230

: [REDACTED]

: -

: EFFLUENT

: SEPTEMBER 12, 2024

: 09:40 HOUR

: GRAB

: MR THANADET WANSANOR

: MISS MAPAPORN KHUNNOKKHUM

RECEIVED DATE

ANALYTICAL DATE

ISSUE DATE

REPORT NO.

WORK NO.

ANALYSIS NO.

: SEPTEMBER 13, 2024

: SEPTEMBER 13-19, 2024

: SEPTEMBER 23, 2024

: 2024-U088172

: 2019-002022

: T24AV173-0005

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			LBW004 : OP OUTLET T24AR292-0005	T24AV173-0005	
pH °	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)		7.6 (25°C)	-
TEMPERATURE °	°C	THERMOMETER (AT SITE) SM: PART 2550 B		34.4	-
BIO-CHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)		2.9	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5220 C)		75.2	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)		10.6	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)		29.600	25
SULPHIDE °	mg/L	METHYLENE BLUE METHOD(SM: PART 4500-S <sup>3</sup> D)		<0.02	0.02
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)		0.5	3

PARAMETER

UNIT

METHOD OF ANALYSIS

RESULT

DETECTION LIMIT

CYANIDE °

mg/L CN

DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN, C AND PART 4500-CN E)

< 0.005

0.005

SAMPLE CONDITION

WATER'S COLOUR/TURBID SEDIMENT

YELLOW/CLEAR GREEN

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

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

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

SM

: STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 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-01-08-001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
CYANIDE °	mg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN, C AND PART 4500-CN E)	< 0.005	0.005
SAMPLE CONDITION	WATER'S COLOUR/TURBID SEDIMENT		YELLOW/CLEAR GREEN	



TESTING 0207

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			LBW004 : OP OUTLET T24AV173-0005		
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
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN		

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

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 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-12-09-004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			LBW004 : OP OUTLET T24AV177-0004	
TOTAL SOLIDS	mg/L	TOTAL SOLIDS DRIED AT 103-105 °C (SM: PART 2540 B)	32,820	25
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023  
RELEASE ORDER NO. : EV-12-09-004

KS PITIPAT SUTTAMANTWONG,  
LABORATORY SUPERVISOR

(MRS PIYAPAT SUTTAMANTWONG)  
LABORATORY SUPERVISOR

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2024-U088172

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ANALYSIS REPORT

PROJECT NAME

CUSTOMER NAME

ADDRESS

CONTACT INFORMATION

SAMPLING SOURCE

SAMPLE TYPE

SAMPLING DATE

SAMPLING TIME

SAMPLING METHOD <sup>c</sup>

SAMPLING BY <sup>c</sup>

ANALYZED BY

: ENVIRONMENTAL & SOCIOECONOMIC SURVEY

: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED

: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230

: [REDACTED]

: -

: EFFLUENT

: NOVEMBER 7, 2024

: 11:35 HOUR

: GRAB

: MR. THANADET WANSANOR

: MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE

ANALYTICAL DATE

ISSUE DATE

REPORT NO.

WORK NO.

ANALYSIS NO.

: NOVEMBER 8, 2024

: NOVEMBER 8-14, 2024

: NOVEMBER 20, 2024

: 2024-U108246

: 2019-002022

: T24BA216-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT LBW004 : OP OUTLET T24BA216-0007	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
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	31.1	-	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.4	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5220 C)	512	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	9.2	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	36.560	-	25
SULPHIDE <sup>c</sup>	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sup>2-</sup> D)	0.04	-	0.02
FAT, OIL AND GREASE <sup>a</sup>	mg/L	LIQUID-LIQUID PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	4	-	3

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT LBW004 : OP OUTLET T24BA216-0007	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
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
SAMPLE CONDITION					
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.

RELEASE ORDER NO. : EV-07-11-002

(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 :  
SAMPLING SOURCE :  
SAMPLE TYPE : EFFLUENT  
SAMPLING DATE : NOVEMBER 7, 2024  
SAMPLING TIME : 11:35 HOUR  
SAMPLING METHOD : GRAB  
SAMPLING BY : MR. THANADET WANSANOR  
ANALYZED BY : MISS NADNAPA KAMOLBOON  
RECEIVED DATE : NOVEMBER 8, 2024  
ANALYTICAL DATE : NOVEMBER 8-14, 2024  
ISSUE DATE : NOVEMBER 20, 2024  
REPORT NO. : 2024-U108247  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24BA216-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
METALS			LBW004 : OP OUTLET T24BA216-0008	
MERCURY	mg/L Hg	COLD VAPOUR AAS METHOD (SM: PART 3112 B)	< 0.0005	0.0005
SAMPLE CONDITION			COLOURLESS/CLEAR	
WATER'S COLOUR/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. : EL-07-11-002

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 :  
SAMPLING SOURCE :  
SAMPLE TYPE : EFFLUENT  
SAMPLING DATE : DECEMBER 6, 2024  
SAMPLING TIME : 10:50 HOUR  
SAMPLING METHOD : GRAB  
SAMPLING BY : MR. THANADET WANSANOR  
ANALYZED BY : MISS NADNAPA KHAMNOKKHUM  
RECEIVED DATE : DECEMBER 7, 2024  
ANALYTICAL DATE : DECEMBER 7-13, 2024  
ISSUE DATE : DECEMBER 19, 2024  
REPORT NO. : 2024-U118488  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24BC845-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
pH °	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.9 (25°C)	-	-
TEMPERATURE °	°C	THERMOMETER (AT SITE) SM: PART 2560 B	29.0	-	-
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O <sub>2</sub> G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	51.2	-	40.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	8.3	-	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	36.940	-	25
SULPHIDE °	mg/L	METHYLENE BLUE METHOD (SM: PART 4500-S <sub>2</sub> D)	< 0.02	-	0.02
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	0.7	-	3



ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
ADDRESS : 118 MOO 2 THUNG SUKHILA SI RACHA CHON BURI 20230  
CONTACT INFORMATION :  
SAMPLE SOURCE :  
SAMPLE TYPE : EFFLUENT  
SAMPLING DATE : JULY 4, 2024  
SAMPLING TIME : 09:15 HOUR  
SAMPLING METHOD : GRAB  
SAMPLING BY : MR THANADET WANSANOR  
ANALYZED BY : MISS NAPAPORN KHUNNOCKHUM  
RECEIVED DATE : JULY 5, 2024  
ANALYTICAL DATE : JULY 5- 15, 2024  
ISSUE DATE : JULY 16, 2024  
REPORT NO. : 2024-U064669  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24AP139-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT LBW005 : REFINERY MIX T24AP139-0006	DETECTION LIMIT
pH <sup>c</sup>	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.6 (25°C)	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER (AT SITE) SM: PART 2550 B	33	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	28.8	0.1
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O <sub>2</sub> G)	< 2.0	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	95.4	25.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	8.7	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	36.840	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)	16.0	0.09
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	1.4	3

United Analyst and Engineering Consultant Co., Ltd.

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

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

United Analyst and Engineering Consultant Co., Ltd.

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

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

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT LBW005 : REFINERY MIX T24AP139-0006	DETECTION LIMIT
METALS				
LEAD <sup>c</sup>	mg/L Pb	UAETPHEM.004 BASED ON SM: PART 3030 E AND PART 3111B	< 0.020	0.020
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR GREEN	

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

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 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-04-07-002

(MRS. PIRAPAT SUITAPRANUTWONG)  
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 :  
SAMPLING SOURCE :  
SAMPLE TYPE : EFFLUENT  
SAMPLING DATE : AUGUST 1, 2024  
SAMPLING TIME : 10:15 HOUR  
SAMPLING METHOD : GRAB  
SAMPLING BY : MR. THANADET WANSANOR  
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM  
RECEIVED DATE : AUGUST 2, 2024  
ANALYTICAL DATE : AUGUST 2-8, 2024  
ISSUE DATE : AUGUST 13, 2024  
REPORT NO. : 2024-U073574  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24AR292-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
pH °	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.8 (25°C)	-
TEMPERATURE °	°C	THERMOMETER (AT SITE) SM: PART 2550 B	34	-
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	29.3	0.1
BIOCHEMICAL OXYGEN DEMAND *	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4600-O <sub>2</sub> G)	2.4	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5220 C)	87.1	25.0
TOTAL SUSPENDED SOLIDS *	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	7.2	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	37,300	25
SULPHIDE °	mg/L	METHYLENE BLUE METHOD(SM: PART 4500-S <sup>2-</sup> D)	< 0.02	0.02
NITRATE °	mg/L NO <sub>3</sub>	CADMIUM REDUCTION METHOD (SM: PART 4500-NO <sub>3</sub> E)	23.6	0.09
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	1.3	3

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• THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
METALS				
LEAD °	mg/L Pb	UAETP-HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

a : ISO/IEC 17025 ACCREDITED BY THAI INDUSTRIAL STANDARDS INSTITUTE (TISI)  
b : ISO/IEC 17025 ACCREDITED BY DEPARTMENT OF SCIENCE SERVICE (DSS)  
c : VERIFIED BY OWN LABORATORY QUALITY SYSTEM, BUT STILL NOT ACCREDITED  
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 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-0108-001

(MRS. PIYAPAT SUTAMANUTWONG)  
LABORATORY SUPERVISOR

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• THIS ANALYSIS REPORT APPROVES ONLY FOR THE SAMPLES AS RECEIVED.

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 : [REDACTED]

SAMPLING SOURCE : [REDACTED]

SAMPLE TYPE : [REDACTED]

SAMPLING DATE : SEPTEMBER 12, 2024

SAMPLING TIME : 10:10 HOUR

SAMPLING METHOD : GRAB

SAMPLING BY : MR. THANADET WANSANOR

ANALYZED BY : MISS NAPAPORN KHUNOKKHUM

RECEIVED DATE : SEPTEMBER 13, 2024

ANALYTICAL DATE : SEPTEMBER 13-19, 2024

ISSUE DATE : SEPTEMBER 23, 2024

REPORT NO. : 2024-U088175

WORK NO. : 2019-002022

ANALYSIS NO. : T24AV173-0006

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			LBW005 : REFINERY MIX T24AV173-0006	
pH °	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.8 (25°C)	-
TEMPERATURE °	°C	THERMOMETER (AT SITE) SM: PART 2550 B	33.8	-
SALINITY °	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	24.2	0.1
BIOCHEMICAL OXYGEN DEMAND °	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O <sub>2</sub> G)	2.7	2.0
CHEMICAL OXYGEN DEMAND °	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5220 C)	52.8	25.0
TOTAL SUSPENDED SOLIDS °	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	8.8	5.0
TOTAL DISSOLVED SOLIDS °	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	30.080	25
SULPHIDE °	mg/L	METHYLENE BLUE METHOD(SM: PART 4500-S <sup>2-</sup> D)	< 0.02	0.02
NITRATE °	mg/L NO <sub>3</sub>	CADMIUM REDUCTION METHOD (SM: PART 4500-NO <sub>3</sub> E)	33.7	0.08
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
			LBW005 : REFINERY MIX T24AV173-0006	
METALS				
LEAD °	mg/L Pb	LAETP-HEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< LOQ	0.020
SAMPLE CONDITION				
WATER'S COLOUR/TURBID				
SEDIMENT			YELLOW/CLEAR BROWN	

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

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.  
< LOQ : < LIMIT OF QUANTITATION (LEAD ≥ 0.020 AND < 0.200 mg/L).  
FAT, OIL AND GREASE : THIS REPORTED VALUE IS BELOW LIMIT OF DETECTION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.  
RELEASE ORDER NO. : EV-12-09-004

[REDACTED]

(MRS. PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR



## ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY
CUSTOMER NAME	: BANGCHAK SIRACHA PUBLIC COMPANY LIMITED
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION	: T. [REDACTED]
SAMPLING SOURCE	: -
SAMPLE TYPE	: EFFLUENT
SAMPLING DATE	: OCTOBER 3, 2024
SAMPLING TIME	: 10-50 HOUR
SAMPLING METHOD <sup>a</sup>	: GRAB
SAMPLING BY <sup>c</sup>	: MR THANADET WANSANOR
ANALYZED BY	: MISS NAPAPORN KHUNNOKKHUM
ANAL	

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT LBW005 : RETINERY MIX T24AX315-0006	DETECTION LIMIT
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	35.3	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	29.5	0.1
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O <sub>2</sub> G)	< 2.0	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFUX, TITRIMETRIC METHOD (SM: PART 5220 C)	52.8	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	5.3	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	33.961	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> E)	20.2	0.09
FAT, OIL AND GREASE <sup>c</sup>	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	2.1	3

## ANALYSIS REPORT

PROJECT NAME	: ENVIRONMENTAL & SOCIOECONOMIC SURVEY	RECEIVED DATE	: -
CUSTOMER NAME	: BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED	ANALYTICAL DATE	: -
ADDRESS	: 118 MOO 2 THUNG SUKHLA SI RACHA CHON BURI 20230	ISSUE DATE	: SEPTEMBER 24, 2024
CONTACT INFORMATION	: T [REDACTED]	REPORT NO.	: 2024-U087810
SAMPLE SOURCE	: -	WORK NO.	: 2019-U02032
SAMPLE TYPE	: EFFLUENT	ANALYSIS NO.	: T74AV177-0002
MEASURING DATE	: SEPTEMBER 12, 2024		
MEASURING TIME	: 10:10 HOUR		
SAMPLING METHOD	: GRAB		
MEASURED BY	: MR. THANADET WANSANOR		

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			LBW005 : REFINERY MIX T24AV177-0002	
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM PART 4500-O G	4.0	0.5
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR WHITE	

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24<sup>th</sup> EDITION, 2023.  
RELEASE ORDER NO. : EV-12-09-004

(MR THEERAWAT CHOMMING,  
LABORATORY SUPERVISOR)



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			LBW005 - REFINERY MIX T24AX315-0006	
METALS				
LEAD <sup>a</sup>	mg/L Pb	UAE/TPHEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			YELLOW/CLEAR	
SEDIMENT			BROWN	

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

SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 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-03-10-002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DEFLECTION LIMIT	LIMIT OF QUANTIFICATION (LOQ)
			LBW005 : REFINERY MIX T248A216-0009		
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	34.5	-	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	31.8	0.1	-
BIOCHEMICAL OXYGEN DEMAND <sup>a</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O <sub>2</sub> G)	< 2.0	-	2.0
CHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5220 C)	62.4	-	40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	8.1	-	5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	36,800	-	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)	18.8	0.09	-
FAT, OIL AND GREASE <sup>c</sup>	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)
			LBW005 : REFINERY MIX T24BA216-0009		
METALS					
LEAD <sup>c</sup>	mg/L Pb	UAE/TPHEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
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-07-11-002

## 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 :   
SAMPLING SOURCE :   
SAMPLE TYPE : EFFLUENT  
SAMPLING DATE : DECEMBER 6, 2024  
SAMPLING TIME : 11:15 HOUR  
SAMPLING METHOD <sup>c</sup> : GRAB  
SAMPLING BY <sup>c</sup> : MR THANADET WANSANOR  
ANALYZED BY : MISS NAPAPOINI KHUNNOKKHUM

RECEIVED DATE : DECEMBER 7, 2024  
ANALYTICAL DATE : DECEMBER 7-16, 2024  
ISSUE DATE : DECEMBER 19, 2024  
REPORT NO. : 2024-U118492  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24BC845-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T24BC845-0008			
pH <sup>c</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	33.7		-	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	29.6	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 REFUX, TITRIMETRIC METHOD (SM: PART 5220 C)	49.6	-		40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	10.7	-		5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	37.160	-		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)	2.26	0.09		-
FAT, OIL AND GREASE <sup>c</sup>	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)
			LBW005 : REFINERY MIX T24BA216-0009		
METALS					
LEAD <sup>c</sup>	mg/L Pb	UAE/TPHEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
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-07-11-002

## 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 :   
SAMPLING SOURCE :   
SAMPLE TYPE : EFFLUENT  
SAMPLING DATE : DECEMBER 6, 2024  
SAMPLING TIME : 11:15 HOUR  
SAMPLING METHOD <sup>c</sup> : GRAB  
SAMPLING BY <sup>c</sup> : MR THANADET WANSANOR  
ANALYZED BY : MISS NAPAPOINI KHUNNOKKHUM

RECEIVED DATE : DECEMBER 7, 2024  
ANALYTICAL DATE : DECEMBER 7-16, 2024  
ISSUE DATE : DECEMBER 19, 2024  
REPORT NO. : 2024-U118492  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24BC845-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T24BC845-0008			
pH <sup>c</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	33.7		-	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	29.6	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 REFUX, TITRIMETRIC METHOD (SM: PART 5220 C)	49.6	-		40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	10.7	-		5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	37.160	-		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)	2.26	0.09		-
FAT, OIL AND GREASE <sup>c</sup>	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)
			LBW005 : REFINERY MIX T24BA216-0009		
METALS					
LEAD <sup>c</sup>	mg/L Pb	UAE/TPHEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
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-07-11-002

## 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 :   
SAMPLING SOURCE :   
SAMPLE TYPE : EFFLUENT  
SAMPLING DATE : DECEMBER 6, 2024  
SAMPLING TIME : 11:15 HOUR  
SAMPLING METHOD <sup>c</sup> : GRAB  
SAMPLING BY <sup>c</sup> : MR THANADET WANSANOR  
ANALYZED BY : MISS NAPAPOINI KHUNNOKKHUM

RECEIVED DATE : DECEMBER 7, 2024  
ANALYTICAL DATE : DECEMBER 7-16, 2024  
ISSUE DATE : DECEMBER 19, 2024  
REPORT NO. : 2024-U118492  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24BC845-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T24BC845-0008			
pH <sup>c</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	33.7		-	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	29.6	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 REFUX, TITRIMETRIC METHOD (SM: PART 5220 C)	49.6	-		40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	10.7	-		5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	37.160	-		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)	2.26	0.09		-
FAT, OIL AND GREASE <sup>c</sup>	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)
			LBW005 : REFINERY MIX T24BA216-0009		
METALS					
LEAD <sup>c</sup>	mg/L Pb	UAE/TPHEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
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-07-11-002

## 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 :   
SAMPLING SOURCE :   
SAMPLE TYPE : EFFLUENT  
SAMPLING DATE : DECEMBER 6, 2024  
SAMPLING TIME : 11:15 HOUR  
SAMPLING METHOD <sup>c</sup> : GRAB  
SAMPLING BY <sup>c</sup> : MR THANADET WANSANOR  
ANALYZED BY : MISS NAPAPOINI KHUNNOKKHUM

RECEIVED DATE : DECEMBER 7, 2024  
ANALYTICAL DATE : DECEMBER 7-16, 2024  
ISSUE DATE : DECEMBER 19, 2024  
REPORT NO. : 2024-U118492  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24BC845-0008

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW005 : REFINERY MIX T24BC845-0008			
pH <sup>c</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	33.7		-	-
SALINITY <sup>c</sup>	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	29.6	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 REFUX, TITRIMETRIC METHOD (SM: PART 5220 C)	49.6	-		40.0
TOTAL SUSPENDED SOLIDS <sup>a</sup>	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	10.7	-		5.0
TOTAL DISSOLVED SOLIDS <sup>c</sup>	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	37.160	-		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)	2.26	0.09		-
FAT, OIL AND GREASE <sup>c</sup>	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)
			LBW005 : REFINERY MIX T24BA216-0009		
METALS					
LEAD <sup>c</sup>	mg/L Pb	UAE/TPHEM.004 BASED ON SM: PART 3030 E AND PART 3111 B	< 0.020	0.020	0.200
SAMPLE CONDITION					
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-07-11-002

## 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 :   
SAMPLING SOURCE :   
SAMPLE TYPE : EFFLUENT  
SAMPLING DATE : DECEMBER 6, 2024  
SAMPLING TIME : 11:15 HOUR  
SAMPLING METHOD <sup>c</sup> : GRAB  
SAMPLING BY <sup>c</sup> : MR THANADET WANSANOR  
ANALYZED BY : MISS NAPAPOINI KHUNNOKKHUM







### 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** : [REDACTED]  
**SAMPLING SOURCE** : -  
**SAMPLE TYPE** : SEAWATER  
**SAMPLING DATE** : JULY 4, 2024  
**SAMPLING TIME** : 09:35 HOUR  
**SAMPLING METHOD** : COMPOSITE  
**SAMPLING BY** : MR. THANADET WANSANOR  
**ANALYZED BY** : MISS NAPAPORN KHUNNOKKHUM  
**RECEIVED DATE** : JULY 5, 2024  
**ANALYTICAL DATE** : JULY 5-11, 2024  
**ISSUE DATE** : JULY 24, 2024  
**REPORT NO.** : 2024-U064978  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T24AP140-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			LBW006 : 500 M OFFSHORE (JETTY) T24AP140-0001		
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
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2560 B	30		-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	27.6		0.1
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O <sub>2</sub> G	5.2		0.5
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O <sub>2</sub> G)	10		0.5
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	88.9		25.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	7.1		1.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	34,380		25
CYANIDE	µg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN C AND PART 4500-CN E)	< 5		5
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	5.03		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)	0.7		3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
METALS				
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	130	0.100
SAMPLE CONDITION				
WATER'S COLOUR/TURBID				
SEDIMENT			COLOURLESS/CLEAR 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 DETECTION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.  
RELEASE ORDER NO. : EV-04-07-002



(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** :   
**SAMPLING SOURCE** :   
**SAMPLE TYPE** : SEAWATER  
**SAMPLING DATE** : AUGUST 1, 2024  
**SAMPLING TIME** : 10:30 HOUR  
**SAMPLING METHOD** : COMPOSITE  
**SAMPLING BY** : MR. THANADET WANSANOR  
**ANALYZED BY** : MISS NAPORN KHUNNOKKHUM  
**RECEIVED DATE** : AUGUST 2, 2024  
**ANALYTICAL DATE** : AUGUST 2-9, 2024  
**ISSUE DATE** : AUGUST 16, 2024  
**REPORT NO.** : 2024-U075269  
**WORK NO.** : 2019-002022  
**ANALYSIS NO.** : T24R294-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			LBW006 : 500 M OFFSHORE (JETTY) T24R294-0001		
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
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	30		-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2620 B AND 1060 B	26.9		0.1
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O <sub>2</sub> G	4.8		0.5
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O <sub>2</sub> G)	1.1		0.5
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	84.0		25.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	7.1		1.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	34.600		25
CYANIDE	µg/L CN <sup>-</sup>	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN C AND PART 4500-CN E)	< 5		5
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, 116))	6.79		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)	0.7		3

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
ADDRESS : 118 MOO 2 THUNG SUKHILA SI RACHA CHON BURI 20230  
CONTACT INFORMATION :   
SAMPLE SOURCE :   
SAMPLE TYPE : SEAWATER  
SAMPLING DATE : SEPTEMBER 12, 2024  
SAMPLING TIME : 10:25 HOUR  
SAMPLING METHOD : COMPOSITE  
SAMPLING BY : MR THANADET WANSANOR  
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM  
RECEIVED DATE : SEPTEMBER 13, 2024  
ANALYTICAL DATE : SEPTEMBER 13-19, 2024  
ISSUE DATE : SEPTEMBER 19, 2024  
REPORT NO. : 2024-U087429  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24AV175-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		DETECTION LIMIT
			LBW006 : 500 M OFFSHORE (JETTY) T24AV175-0001		
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
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2560 B	30.8		-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1060 B	24.2		0.1
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	4.5		0.5
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	0.8		0.5
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5220 C)	46.4		25.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	5.2		1.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	30.800		25
CYANIDE	µg/L ON	DISTILLATION PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4560-CN C AND PART 4560-CN E)	< 5		5
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	9.18		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)	0.4		3

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
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 SEDIMENT			YELLOW/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 DETECTION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.  
RELEASE ORDER NO. : EV-12-09-004

(MRS PTAPAT SUTTANUTWONG)  
LABORATORY SUPERVISOR





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

ANALYSIS REPORT

PROJECT NAME : ENVIRONMENTAL & SOCIOECONOMIC SURVEY  
CUSTOMER NAME : BANGCHAK SRIRACHA PUBLIC COMPANY LIMITED  
ADDRESS : 118 MOO 2 THUNG SUKILA SI RACHA CHON BURI 20230  
CONTACT INFORMATION : [REDACTED]  
SAMPLING SOURCE : -  
SAMPLE TYPE : SEAWATER  
SAMPLING DATE : OCTOBER 3, 2024  
SAMPLING TIME : 09:00 HOUR  
SAMPLING METHOD : COMPOSITE  
SAMPLING BY : MR. THANADAT WANSANOR  
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM  
RECEIVED DATE : OCTOBER 4, 2024  
ANALYTICAL DATE : OCTOBER 4-18, 2024  
ISSUE DATE : OCTOBER 24, 2024  
REPORT NO. : 2024-U098683  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24AX318-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			LBW006 : 500 M OFFSHORE (JETTY) T24AX318-0001	
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.8 (25°C)	-
PHENOLS	mg/L	DISTILLATION 4-AMINOANTHRACENE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	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	25.9	0.1
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O G	4.9	0.5
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	0.9	0.5
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5520 C)	64.0	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	16.6	1.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	31830	25
CYANIDE	µg/L CN	DISTILLATION, PYRIDINE-BARBITURIC ACID METHOD (SM: PART 4500-CN C AND PART 4500-CN E)	< 5	5
NITRATE-NITROGEN	µg/L N	CADMIUM REDUCTION AND COLOURIMETRIC METHOD (BASED ON PRACTICAL HANDBOOK OF SEAWATER ANALYSIS (STRICKLAND AND PARSON, 1972, II.6))	10.1	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)	1.7	3

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			LBW006 : 500 M OFFSHORE (JETTY) T24AX318-0001	
METALS				
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	0.400	0.100
SAMPLE CONDITION			YELLOW/CLEAR BROWN	
WATER'S COLOUR/TURBID SEDIMENT				

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-03-10-002

[REDACTED]  
(MRS PIJAPAT 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 :  
SAMPLING SOURCE :  
SAMPLE TYPE : SEAWATER  
SAMPLING DATE : NOVEMBER 7, 2024  
SAMPLING TIME : 09:10 HOUR  
SAMPLING METHOD : COMPOSITE  
SAMPLING BY : MR. THANADET WANSANOR  
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM  
RECEIVED DATE : NOVEMBER 8, 2024  
ANALYTICAL DATE : NOVEMBER 8-23, 2024  
ISSUE DATE : NOVEMBER 27, 2024  
REPORT NO. : 2024-U111065  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24BA218-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T24BA218-0001		
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	29.4	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1960 B	28.9	0.1	-
DISSOLVED OXYGEN	mg/L	MEMBRANE ELECTRODE METHOD (AT SITE) SM: PART 4500-O <sub>2</sub> G	4.8	0.5	-
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O <sub>2</sub> G)	< 0.5	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, TITRIMETRIC METHOD (SM: PART 5220 C)	49.6	-	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)	34,540	-	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))	12.2	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) T24BA218-0001		
METALS					
LEAD	µg/L Pb	PRE-CONCENTRATION AND INDUCTIVELY COUPLED PLASMA (ICP) METHOD (BASED ON METHOD OF SEAWATER ANALYSIS, GRASSHOFF, 1999, CHAPTER 12)	190	0.000	-
SAMPLE CONDITION					
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR 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 DETECTION. ITS USE IS SUBJECT TO CUSTOMER JUSTIFICATION.  
RELEASE ORDER NO. : EV-07-11-002

(MRS. PIYAPAT SUTAMANUTWONG)  
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 :  
SAMPLING SOURCE :  
SAMPLE TYPE : SEAWATER  
SAMPLING DATE : NOVEMBER 7, 2024  
SAMPLING TIME : 09:10 HOUR  
SAMPLING METHOD : COMPOSITE  
SAMPLING BY : MR. THANADET WANSANOR  
ANALYZED BY : MR. KORNWIT CHIASIRISAKUL  
RECEIVED DATE : NOVEMBER 8, 2024  
ANALYTICAL DATE : NOVEMBER 8-23, 2024  
ISSUE DATE : NOVEMBER 27, 2024  
REPORT NO. : 2024-U111066  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24BA218-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
METALS			LBW006 : 500 M OFFSHORE (JETTY) T24BA218-0002	
MERCURY	µg/L Hg	US EPA 2005.245.7, REVISION 2.0, FEBRUARY 2005	< 0.020	0.020
SAMPLE CONDITION				
WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR WHITE	

RELEASE ORDER NO.: EV-07-11-002

(MR. BHUCHONK PANICHLER TUMPI)  
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 :  
SAMPLING SOURCE :  
SAMPLE TYPE : SEAWATER  
SAMPLING DATE : DECEMBER 6, 2024  
SAMPLING TIME : 12:59 HOUR  
SAMPLING METHOD : COMPOSITE  
SAMPLING BY : MR. THANADET WANSANOR  
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM  
RECEIVED DATE : DECEMBER 7, 2024  
ANALYTICAL DATE : DECEMBER 7-19, 2024  
ISSUE DATE : DECEMBER 25, 2024  
REPORT NO. : 2024-U119728  
WORK NO. : 2019-002022  
ANALYSIS NO. : T24BC846-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
pH	-	ELECTROMETRIC METHOD (SM: PART 4500-H <sup>+</sup> B)	7.9 (25°C)	-	-
PHENOLS	mg/L	DISTILLATION, 4-AMINOANTHRACENE METHOD (SM: PART 5530 B AND PART 5530 C)	< 0.005	0.005	0.020
TEMPERATURE	°C	THERMOMETER (AT SITE) SM: PART 2550 B	28.5	-	-
SALINITY	ppt	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2520 B AND 1660 B	27.2	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)	1.1	0.5	-
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLEX, TITRIMETRIC METHOD (SM: PART 5220 C)	48.0	-	40.0
SUSPENDED SOLIDS	mg/L	GRAVIMETRIC METHOD (SM: PART 2540 D)	5.3	1.0	-
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	33.060	-	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 (STROCKLAND AND PARSON, 1972, 116))	5.35	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)	0.5	-	3



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT	LIMIT OF QUANTITATION (LOQ)
			LBW006 : 500 M OFFSHORE (JETTY) T24BC846-0001		
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 SEDIMENT			COLOURLESS/CLEAR 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-06-12-002

(MRS PIYAPAT SUTTAMANUTIWONG)  
LABORATORY SUPERVISOR