

ภาคผนวก ก-2

ผลการติดตามตรวจสอบคุณภาพอากาศจากปล่องระบาย

ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHILA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
SAMPLING SOURCE : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
SAMPLE TYPE : STACK
SAMPLING DATE : MARCH 29, 2024
SAMPLING TIME : 11:25-12:40 HOUR
SAMPLING BY : MR ATTHAPORN THEPTONG ๖-145-๖-0008
ANALYZED BY : MISS SUWAN KONGTHONG ๖-145-๓-0025

RECEIVED DATE : APRIL 1, 2024
ANALYTICAL DATE : APRIL 1-4, 2024
ISSUE DATE : APRIL 5, 2024
REPORT NO. : 2024-U029164
WORK NO. : 2022-006185
ANALYSIS NO. : T24AG773-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			HRSG-2 T24AG773-0001	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m ³	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	1.45	3.32
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)	10.8	24.8
SAMPLE CONDITION			COMPLETE	

REMARK

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

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR
๖-145-๓-0011
APRIL 5, 2024



ภาคผนวก ก-3

ผลการติดตามตรวจสอบระดับเสียงโดยทั่วไป

ANALYSIS REPORT

CUSTOMER NAME	: GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED	RECEIVED DATE	: MARCH 25 - APRIL 1, 2024
ADDRESS	: 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230	ANALYTICAL DATE	: MARCH 25 - APRIL 1, 2024
CONTACT INFORMATION	: TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com	ISSUE DATE	: APRIL 9, 2024
MEASURING SOURCE	: บ้านทุ่งเทครัว	REPORT NO.	: 2024-U030338
MEASURING TYPE	: AMBIENT (NOISE)	WORK NO.	: 2022-006185
MEASURING DATE	: MARCH 25 - APRIL 1, 2024	ANALYSIS NO.	: T24AH160-0001 - T24AH160-0007
MEASURING TIME	: *		
MEASURING METHOD	: INTEGRATED SOUND LEVEL METER		
MEASURED BY	: MR ATHIT UDOMPHOL		

TIME*	RESULT dB(A)		
	บ้านทุ่งเทครัว		
	MARCH 25-26, 2024		
	T24AH160-0001		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	58.1	76.7	54.4
08:00-09:00 HOUR	57.6	73.2	53.7
09:00-10:00 HOUR	60.4	78.3	56.5
10:00-11:00 HOUR	61.0	81.0	57.4
11:00-12:00 HOUR	60.8	79.8	57.2
12:00-13:00 HOUR	62.6	82.3	59.0
13:00-14:00 HOUR	62.6	81.0	58.8
14:00-15:00 HOUR	61.6	80.6	58.2
15:00-16:00 HOUR	62.7	80.2	59.6
16:00-17:00 HOUR	58.9	76.0	55.3
17:00-18:00 HOUR	58.8	74.8	55.0
18:00-19:00 HOUR	59.3	79.5	55.4
19:00-20:00 HOUR	57.8	78.4	54.1
20:00-21:00 HOUR	56.7	73.3	52.8
21:00-22:00 HOUR	56.5	73.3	52.5
22:00-23:00 HOUR	57.1	77.3	53.9
23:00-00:00 HOUR	56.6	74.1	52.9
00:00-01:00 HOUR	55.6	76.0	51.9
01:00-02:00 HOUR	55.3	72.8	51.8
02:00-03:00 HOUR	56.2	75.2	52.7
03:00-04:00 HOUR	57.8	75.4	54.2
04:00-05:00 HOUR	58.5	79.1	55.0
05:00-06:00 HOUR	58.5	79.0	55.0
06:00-07:00 HOUR	57.9	76.9	54.3
L _{Aeq} 24 hours		59.3	
L _{Adn}		64.2	



TIME*	RESULT dB(A)		
	บ้านทุ่งเตควัว		
	MARCH 26-27, 2024		
	T24AH160-0002		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	57.9	76.3	54.5
08:00-09:00 HOUR	57.1	75.2	54.0
09:00-10:00 HOUR	58.7	76.8	55.0
10:00-11:00 HOUR	61.0	78.4	57.7
11:00-12:00 HOUR	62.0	83.2	58.0
12:00-13:00 HOUR	61.8	81.0	58.2
13:00-14:00 HOUR	61.8	79.9	58.1
14:00-15:00 HOUR	60.2	77.4	56.7
15:00-16:00 HOUR	62.2	80.5	58.5
16:00-17:00 HOUR	61.2	79.1	57.6
17:00-18:00 HOUR	59.6	79.6	56.0
18:00-19:00 HOUR	58.8	77.4	55.5
19:00-20:00 HOUR	57.5	77.3	53.8
20:00-21:00 HOUR	57.6	73.9	54.1
21:00-22:00 HOUR	59.5	77.7	55.9
22:00-23:00 HOUR	57.8	78.2	53.9
23:00-00:00 HOUR	55.0	73.5	51.2
00:00-01:00 HOUR	55.7	74.6	52.0
01:00-02:00 HOUR	54.8	75.1	51.6
02:00-03:00 HOUR	55.6	73.9	52.2
03:00-04:00 HOUR	58.1	75.5	54.9
04:00-05:00 HOUR	59.1	77.9	55.5
05:00-06:00 HOUR	58.0	75.3	54.2
06:00-07:00 HOUR	58.3	76.8	54.5
L _{Aeq} 24 hours		59.2	
L _{Adn}		64.2	

TIME*	RESULT dB(A)		
	บ้านทุ่งเทครัว		
	MARCH 27-28, 2024		
	T24AH160-0003		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	57.0	75.5	53.6
08:00-09:00 HOUR	57.7	75.9	53.8
09:00-10:00 HOUR	59.9	79.2	56.4
10:00-11:00 HOUR	61.2	79.2	57.1
11:00-12:00 HOUR	60.7	77.8	57.0
12:00-13:00 HOUR	62.0	81.8	58.1
13:00-14:00 HOUR	62.1	79.3	58.3
14:00-15:00 HOUR	62.5	78.1	58.8
15:00-16:00 HOUR	61.5	80.0	57.5
16:00-17:00 HOUR	58.1	78.0	54.5
17:00-18:00 HOUR	60.1	80.4	56.6
18:00-19:00 HOUR	59.1	78.0	55.7
19:00-20:00 HOUR	57.6	74.8	54.2
20:00-21:00 HOUR	57.3	73.8	53.7
21:00-22:00 HOUR	58.8	74.7	55.5
22:00-23:00 HOUR	58.5	75.0	54.9
23:00-00:00 HOUR	55.2	72.3	51.2
00:00-01:00 HOUR	56.1	73.6	52.4
01:00-02:00 HOUR	55.4	74.4	51.9
02:00-03:00 HOUR	55.1	74.5	51.5
03:00-04:00 HOUR	57.3	75.5	53.3
04:00-05:00 HOUR	57.0	74.2	52.9
05:00-06:00 HOUR	57.6	75.8	54.2
06:00-07:00 HOUR	58.1	76.7	54.1
L _{Aeq} 24 hours		59.1	
L _{Adn}		63.9	

TIME*	RESULT dB(A)		
	บ้านทุ่งเทครัว		
	MARCH 28-29, 2024		
	T24AH160-0004		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	57.4	74.7	54.3
08:00-09:00 HOUR	57.9	76.5	54.2
09:00-10:00 HOUR	58.1	76.8	54.3
10:00-11:00 HOUR	61.6	81.3	58.1
11:00-12:00 HOUR	60.5	79.3	57.1
12:00-13:00 HOUR	61.4	79.5	57.8
13:00-14:00 HOUR	61.0	78.5	57.3
14:00-15:00 HOUR	60.9	77.5	57.3
15:00-16:00 HOUR	62.1	79.2	58.4
16:00-17:00 HOUR	58.7	75.6	54.5
17:00-18:00 HOUR	60.9	79.5	57.1
18:00-19:00 HOUR	58.9	77.3	55.6
19:00-20:00 HOUR	58.1	75.3	54.2
20:00-21:00 HOUR	56.5	74.9	52.9
21:00-22:00 HOUR	57.5	74.6	53.8
22:00-23:00 HOUR	57.0	74.8	53.7
23:00-00:00 HOUR	55.4	74.8	51.5
00:00-01:00 HOUR	56.3	74.3	53.2
01:00-02:00 HOUR	56.0	75.1	52.8
02:00-03:00 HOUR	53.9	70.8	49.8
03:00-04:00 HOUR	57.9	77.2	53.9
04:00-05:00 HOUR	56.3	73.8	52.7
05:00-06:00 HOUR	57.1	76.0	53.3
06:00-07:00 HOUR	57.6	74.7	54.2
L _{Aeq} 24 hours		58.8	
L _{Adn}		63.6	

TIME*	RESULT dB(A)		
	บ้านทุ่งเทครัว		
	MARCH 29-30, 2024		
	T24AH160-0005		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.3	74.5	52.6
08:00-09:00 HOUR	57.0	75.4	53.2
09:00-10:00 HOUR	58.9	75.7	55.2
10:00-11:00 HOUR	62.4	82.2	58.6
11:00-12:00 HOUR	59.8	77.8	56.4
12:00-13:00 HOUR	62.5	79.8	58.6
13:00-14:00 HOUR	60.9	78.9	57.4
14:00-15:00 HOUR	61.9	80.3	58.2
15:00-16:00 HOUR	61.3	81.7	57.9
16:00-17:00 HOUR	59.4	77.7	55.4
17:00-18:00 HOUR	60.3	77.7	56.9
18:00-19:00 HOUR	59.3	77.5	55.7
19:00-20:00 HOUR	57.0	74.3	53.2
20:00-21:00 HOUR	58.1	79.2	54.5
21:00-22:00 HOUR	56.4	72.1	52.8
22:00-23:00 HOUR	56.1	75.5	52.2
23:00-00:00 HOUR	55.5	71.2	52.2
00:00-01:00 HOUR	55.8	73.9	52.2
01:00-02:00 HOUR	55.7	73.6	52.3
02:00-03:00 HOUR	55.3	71.9	51.7
03:00-04:00 HOUR	57.0	77.3	53.3
04:00-05:00 HOUR	56.7	75.2	53.1
05:00-06:00 HOUR	58.2	75.3	54.6
06:00-07:00 HOUR	57.1	77.1	53.3
L _{Aeq} 24 hours		58.9	
L _{Adn}		63.6	

TIME*	RESULT dB(A)		
	บ้านทุ่งเตศวร		
	MARCH 30-31, 2024		
	T24AH160-0006		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	57.8	76.2	53.8
08:00-09:00 HOUR	56.7	77.1	53.3
09:00-10:00 HOUR	60.0	78.4	56.2
10:00-11:00 HOUR	62.1	79.4	58.4
11:00-12:00 HOUR	62.3	79.2	58.4
12:00-13:00 HOUR	62.3	79.5	58.8
13:00-14:00 HOUR	62.3	82.0	58.7
14:00-15:00 HOUR	61.2	78.5	57.7
15:00-16:00 HOUR	60.9	78.5	57.2
16:00-17:00 HOUR	58.4	74.5	55.2
17:00-18:00 HOUR	58.5	75.5	55.2
18:00-19:00 HOUR	60.9	78.5	57.5
19:00-20:00 HOUR	57.4	75.7	53.6
20:00-21:00 HOUR	57.3	76.4	53.6
21:00-22:00 HOUR	56.3	73.5	52.3
22:00-23:00 HOUR	58.5	76.1	55.0
23:00-00:00 HOUR	55.4	75.4	51.5
00:00-01:00 HOUR	55.8	72.1	51.7
01:00-02:00 HOUR	54.8	72.1	51.6
02:00-03:00 HOUR	55.3	76.2	51.7
03:00-04:00 HOUR	57.8	76.7	54.2
04:00-05:00 HOUR	59.1	74.0	55.4
05:00-06:00 HOUR	57.6	74.4	54.3
06:00-07:00 HOUR	58.1	74.7	54.4
L _{Aeq} 24 hours	59.2		
L _{Adn}	64.2		

TIME*	RESULT dB(A)		
	บ้านทุ่งเต๋อรั้ว		
	MARCH 31 - APRIL 1, 2024		
	T24AH160-0007		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	56.9	77.0	52.9
08:00-09:00 HOUR	57.1	75.4	53.6
09:00-10:00 HOUR	58.6	75.5	55.2
10:00-11:00 HOUR	60.2	78.2	56.6
11:00-12:00 HOUR	63.3	82.2	59.7
12:00-13:00 HOUR	61.0	79.8	57.3
13:00-14:00 HOUR	62.2	79.5	58.4
14:00-15:00 HOUR	59.2	74.1	55.0
15:00-16:00 HOUR	63.4	82.9	60.2
16:00-17:00 HOUR	58.7	77.8	54.7
17:00-18:00 HOUR	58.1	74.5	54.0
18:00-19:00 HOUR	56.8	71.9	53.7
19:00-20:00 HOUR	52.5	74.2	48.7
20:00-21:00 HOUR	53.3	73.8	49.7
21:00-22:00 HOUR	54.4	69.4	50.7
22:00-23:00 HOUR	52.9	70.5	49.7
23:00-00:00 HOUR	53.6	68.8	50.2
00:00-01:00 HOUR	51.8	72.9	47.6
01:00-02:00 HOUR	52.4	73.3	48.8
02:00-03:00 HOUR	57.3	74.9	53.6
03:00-04:00 HOUR	61.2	81.0	57.2
04:00-05:00 HOUR	57.6	77.9	53.9
05:00-06:00 HOUR	55.6	75.6	51.8
06:00-07:00 HOUR	57.7	74.7	53.8
L _{Aeq} 24 hours	58.6		
L _{Adn}	63.6		

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

APRIL 9, 2024

ANALYSIS REPORT

CUSTOMER NAME	: GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED	RECEIVED DATE	: MARCH 25 - APRIL 1, 2024
ADDRESS	: 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230	ANALYTICAL DATE	: MARCH 25 - APRIL 1, 2024
CONTACT INFORMATION	: TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com	ISSUE DATE	: APRIL 9, 2024
MEASURING SOURCE	: จักรวัดโครงการ GPSC	REPORT NO.	: 2024-U030339
MEASURING TYPE	: AMBIENT (NOISE)	WORK NO.	: 2022-006185
MEASURING DATE	: MARCH 25 - APRIL 1, 2024	ANALYSIS NO.	: T24AH160-0008 - T24AH160-0014
MEASURING TIME	: *		
MEASURING METHOD	: INTEGRATED SOUND LEVEL METER		
MEASURED BY	: MR ATHIT UDOMPHOL		

TIME*	RESULT dB(A)		
	จักรวัดโครงการ GPSC		
	MARCH 25-26, 2024		
	T24AH160-0008		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	64.5	87.9	61.4
08:00-09:00 HOUR	64.9	94.2	61.8
09:00-10:00 HOUR	62.9	80.2	61.1
10:00-11:00 HOUR	62.5	80.5	61.0
11:00-12:00 HOUR	64.6	97.7	61.5
12:00-13:00 HOUR	60.8	74.0	59.9
13:00-14:00 HOUR	67.7	94.7	60.6
14:00-15:00 HOUR	68.1	98.5	62.6
15:00-16:00 HOUR	66.8	103.0	62.3
16:00-17:00 HOUR	62.5	74.6	61.0
17:00-18:00 HOUR	61.6	77.6	60.6
18:00-19:00 HOUR	61.4	69.1	60.6
19:00-20:00 HOUR	61.0	71.1	60.4
20:00-21:00 HOUR	61.2	76.4	60.6
21:00-22:00 HOUR	61.0	66.5	60.5
22:00-23:00 HOUR	60.9	70.3	60.3
23:00-00:00 HOUR	60.9	67.3	60.3
00:00-01:00 HOUR	61.0	76.6	60.6
01:00-02:00 HOUR	61.9	68.6	60.8
02:00-03:00 HOUR	60.9	67.3	60.5
03:00-04:00 HOUR	61.0	67.0	60.6
04:00-05:00 HOUR	61.3	65.4	60.8
05:00-06:00 HOUR	61.4	68.9	60.8
06:00-07:00 HOUR	62.1	72.7	61.1
L _{Aeq} 24 hours	63.3		
L _{Adn}	68.2		



TIME*	RESULT dB(A)		
	รื้อถอนโครงการ GPSC		
	MARCH 26-27, 2024		
	T24AH160-0009		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	62.2	76.7	61.3
08:00-09:00 HOUR	62.7	73.8	61.2
09:00-10:00 HOUR	64.8	78.2	61.6
10:00-11:00 HOUR	63.8	86.9	61.6
11:00-12:00 HOUR	61.6	73.9	60.6
12:00-13:00 HOUR	61.0	71.1	60.3
13:00-14:00 HOUR	63.6	90.8	60.7
14:00-15:00 HOUR	69.2	89.9	62.0
15:00-16:00 HOUR	65.7	94.2	61.7
16:00-17:00 HOUR	63.1	80.7	61.2
17:00-18:00 HOUR	62.0	77.6	60.4
18:00-19:00 HOUR	61.5	77.5	60.5
19:00-20:00 HOUR	61.7	74.2	61.1
20:00-21:00 HOUR	61.8	67.3	61.2
21:00-22:00 HOUR	61.6	72.3	61.0
22:00-23:00 HOUR	61.7	66.2	61.0
23:00-00:00 HOUR	61.9	66.3	61.4
00:00-01:00 HOUR	61.8	65.5	61.3
01:00-02:00 HOUR	61.7	74.0	61.2
02:00-03:00 HOUR	61.9	64.1	61.3
03:00-04:00 HOUR	62.0	64.2	61.5
04:00-05:00 HOUR	62.1	73.3	61.5
05:00-06:00 HOUR	62.3	70.7	61.6
06:00-07:00 HOUR	63.0	73.8	61.8
L _{Aeq} 24 hours		63.2	
L _{Adn}		68.8	

TIME*	RESULT dB(A)		
	ริมรั้วโครงการ GPSC		
	MARCH 27-28, 2024		
	T24AH160-0010		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	62.5	72.3	61.5
08:00-09:00 HOUR	64.1	81.3	61.9
09:00-10:00 HOUR	65.9	84.8	61.7
10:00-11:00 HOUR	67.6	96.7	63.0
11:00-12:00 HOUR	63.7	95.3	61.3
12:00-13:00 HOUR	60.9	77.3	60.1
13:00-14:00 HOUR	62.9	85.3	61.3
14:00-15:00 HOUR	63.3	85.8	61.1
15:00-16:00 HOUR	63.4	83.4	61.4
16:00-17:00 HOUR	62.7	79.5	61.3
17:00-18:00 HOUR	61.7	76.3	60.6
18:00-19:00 HOUR	61.5	67.9	60.7
19:00-20:00 HOUR	61.7	73.3	61.0
20:00-21:00 HOUR	61.4	67.2	60.8
21:00-22:00 HOUR	61.3	69.5	60.8
22:00-23:00 HOUR	61.4	69.6	60.8
23:00-00:00 HOUR	61.4	64.3	60.8
00:00-01:00 HOUR	61.2	66.8	60.6
01:00-02:00 HOUR	61.2	66.3	60.8
02:00-03:00 HOUR	61.1	63.7	60.5
03:00-04:00 HOUR	61.2	66.6	60.6
04:00-05:00 HOUR	61.3	67.4	60.8
05:00-06:00 HOUR	61.6	68.7	61.0
06:00-07:00 HOUR	62.7	78.2	61.5
L _{Aeq} 24 hours		62.8	
L _{Adn}		68.2	

TIME*	RESULT dB(A)		
	ริมรั้วโครงการ GPSC		
	MARCH 28-29, 2024		
	T24AH160-0011		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	62.7	80.7	61.6
08:00-09:00 HOUR	63.3	79.4	61.5
09:00-10:00 HOUR	64.1	81.7	61.8
10:00-11:00 HOUR	62.5	76.3	61.1
11:00-12:00 HOUR	62.2	80.7	60.4
12:00-13:00 HOUR	60.7	72.0	60.0
13:00-14:00 HOUR	62.4	76.1	60.6
14:00-15:00 HOUR	64.1	86.3	61.6
15:00-16:00 HOUR	63.5	89.2	61.3
16:00-17:00 HOUR	64.3	82.1	61.6
17:00-18:00 HOUR	63.5	84.9	60.6
18:00-19:00 HOUR	60.8	70.5	60.1
19:00-20:00 HOUR	60.9	73.7	60.2
20:00-21:00 HOUR	60.9	67.4	60.4
21:00-22:00 HOUR	61.0	70.4	60.4
22:00-23:00 HOUR	60.7	70.5	60.3
23:00-00:00 HOUR	60.7	66.9	60.2
00:00-01:00 HOUR	63.9	74.6	59.3
01:00-02:00 HOUR	59.9	70.2	59.4
02:00-03:00 HOUR	59.7	68.3	58.6
03:00-04:00 HOUR	62.5	75.1	61.7
04:00-05:00 HOUR	63.3	73.4	62.9
05:00-06:00 HOUR	62.4	75.1	61.5
06:00-07:00 HOUR	62.5	75.1	61.7
L _{Aeq} 24 hours		62.4	
L _{Adn}		68.5	

TIME*	RESULT dB(A)		
	รื้อถอนโครงการ GPSC		
	MARCH 29-30, 2024		
	T24AH160-0012		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	62.7	72.2	61.6
08:00-09:00 HOUR	63.3	73.0	61.7
09:00-10:00 HOUR	63.0	82.1	61.7
10:00-11:00 HOUR	63.9	77.9	62.1
11:00-12:00 HOUR	62.2	84.3	60.3
12:00-13:00 HOUR	60.6	68.5	59.7
13:00-14:00 HOUR	63.5	74.8	60.7
14:00-15:00 HOUR	65.3	79.2	62.9
15:00-16:00 HOUR	63.5	78.2	62.0
16:00-17:00 HOUR	63.1	74.1	61.4
17:00-18:00 HOUR	61.9	75.9	60.9
18:00-19:00 HOUR	61.8	74.7	60.9
19:00-20:00 HOUR	61.8	70.4	61.2
20:00-21:00 HOUR	61.8	70.1	61.3
21:00-22:00 HOUR	61.8	70.0	61.3
22:00-23:00 HOUR	62.1	72.4	61.5
23:00-00:00 HOUR	61.9	68.9	61.4
00:00-01:00 HOUR	62.0	72.5	61.4
01:00-02:00 HOUR	62.0	71.8	61.5
02:00-03:00 HOUR	62.1	64.8	61.7
03:00-04:00 HOUR	61.7	70.1	61.0
04:00-05:00 HOUR	61.9	72.7	61.2
05:00-06:00 HOUR	62.7	76.0	61.4
06:00-07:00 HOUR	63.8	79.5	61.6
L _{Aeq} 24 hours		62.6	
L _{Adn}		68.8	

TIME*	RESULT dB(A)		
	ริมรั้วโครงการ GPSC		
	MARCH 30-31, 2024		
	T24AH160-0013		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	63.6	83.2	61.6
08:00-09:00 HOUR	62.9	77.8	61.2
09:00-10:00 HOUR	61.8	73.7	60.7
10:00-11:00 HOUR	62.9	85.8	60.6
11:00-12:00 HOUR	65.0	81.0	61.0
12:00-13:00 HOUR	64.1	85.2	61.2
13:00-14:00 HOUR	63.6	83.5	61.4
14:00-15:00 HOUR	62.8	83.4	60.9
15:00-16:00 HOUR	62.9	79.8	61.1
16:00-17:00 HOUR	62.6	79.6	60.9
17:00-18:00 HOUR	61.3	68.9	60.7
18:00-19:00 HOUR	61.3	73.0	60.6
19:00-20:00 HOUR	61.3	66.8	60.7
20:00-21:00 HOUR	61.5	68.4	60.9
21:00-22:00 HOUR	61.3	68.0	60.8
22:00-23:00 HOUR	60.0	69.0	59.5
23:00-00:00 HOUR	61.6	68.0	59.1
00:00-01:00 HOUR	59.7	65.9	59.2
01:00-02:00 HOUR	59.7	69.4	58.8
02:00-03:00 HOUR	61.2	71.4	60.4
03:00-04:00 HOUR	61.9	72.1	61.1
04:00-05:00 HOUR	61.2	72.2	60.3
05:00-06:00 HOUR	63.3	78.2	61.8
06:00-07:00 HOUR	64.3	78.5	61.7
L _{Aeq} 24 hours		62.4	
L _{Adn}		68.3	

TIME*	RESULT dB(A)		
	กรมโครงการ GPSC		
	MARCH 31 - APRIL 1, 2024		
	T24AH160-0014		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	65.5	84.9	62.4
08:00-09:00 HOUR	63.4	88.7	61.5
09:00-10:00 HOUR	62.4	77.6	61.1
10:00-11:00 HOUR	62.6	84.8	60.8
11:00-12:00 HOUR	62.0	77.2	60.4
12:00-13:00 HOUR	63.5	79.1	61.1
13:00-14:00 HOUR	64.0	79.4	62.1
14:00-15:00 HOUR	62.6	77.3	61.3
15:00-16:00 HOUR	62.3	71.0	61.1
16:00-17:00 HOUR	61.8	74.6	61.0
17:00-18:00 HOUR	61.6	71.0	60.9
18:00-19:00 HOUR	61.6	70.0	61.0
19:00-20:00 HOUR	61.6	69.9	61.1
20:00-21:00 HOUR	61.6	67.2	61.1
21:00-22:00 HOUR	61.7	69.6	61.1
22:00-23:00 HOUR	61.6	67.6	61.1
23:00-00:00 HOUR	61.6	68.1	61.0
00:00-01:00 HOUR	61.6	69.2	61.1
01:00-02:00 HOUR	61.7	66.1	61.3
02:00-03:00 HOUR	61.6	68.7	61.0
03:00-04:00 HOUR	62.7	78.2	61.5
04:00-05:00 HOUR	62.7	80.7	61.6
05:00-06:00 HOUR	63.3	79.4	61.5
06:00-07:00 HOUR	64.1	81.7	61.8
L _{Aeq} 24 hours		62.6	
L _{Adn}		68.9	

Sila Banjongjairuk

(MR SILA BANJONGJAIKUK)
LABORATORY SUPERVISOR

APRIL 9, 2024

ANALYSIS REPORT

CUSTOMER NAME	: GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED	RECEIVED DATE	: MARCH 25 - APRIL 1, 2024
ADDRESS	: 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230	ANALYTICAL DATE	: MARCH 25 - APRIL 1, 2024
CONTACT INFORMATION	: TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com	ISSUE DATE	: APRIL 9, 2024
MEASURING SOURCE	: บ้านอ่าวอุดม	REPORT NO.	: 2024-U030340
MEASURING TYPE	: AMBIENT (NOISE)	WORK NO.	: 2022-006185
MEASURING DATE	: MARCH 25 - APRIL 1, 2024	ANALYSIS NO.	: T24AH160-0015 - T24AH160-0021
MEASURING TIME	: *		
MEASURING METHOD	: INTEGRATED SOUND LEVEL METER		
MEASURED BY	: MR ATHIT UDOMPHOL		

TIME*	RESULT dB(A)		
	บ้านอ่าวอุดม		
	MARCH 25-26, 2024		
	T24AH160-0015		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	52.2	70.8	50.9
08:00-09:00 HOUR	50.2	69.1	49.0
09:00-10:00 HOUR	49.6	66.6	48.6
10:00-11:00 HOUR	46.7	67.0	45.4
11:00-12:00 HOUR	48.5	68.1	47.5
12:00-13:00 HOUR	49.4	70.1	48.5
13:00-14:00 HOUR	50.1	69.1	48.8
14:00-15:00 HOUR	52.0	71.4	50.7
15:00-16:00 HOUR	49.4	68.0	47.9
16:00-17:00 HOUR	48.1	66.5	47.1
17:00-18:00 HOUR	48.1	68.1	46.7
18:00-19:00 HOUR	49.9	70.6	48.9
19:00-20:00 HOUR	49.7	68.5	48.3
20:00-21:00 HOUR	53.6	73.1	52.6
21:00-22:00 HOUR	49.1	65.1	47.6
22:00-23:00 HOUR	50.5	66.6	49.4
23:00-00:00 HOUR	51.0	70.1	49.7
00:00-01:00 HOUR	47.1	63.1	46.1
01:00-02:00 HOUR	49.2	66.3	48.2
02:00-03:00 HOUR	51.5	70.2	50.5
03:00-04:00 HOUR	47.1	62.5	45.7
04:00-05:00 HOUR	48.5	63.9	47.4
05:00-06:00 HOUR	49.0	67.3	47.7
06:00-07:00 HOUR	45.2	60.6	44.3
L _{Aeq} 24 hours	49.8		
L _{Adn}	55.8		



TIME*	RESULT dB(A)		
	บ้านธารอุดม		
	MARCH 26-27, 2024		
	T24AH160-0016		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	49.0	67.5	47.8
08:00-09:00 HOUR	49.5	67.9	48.3
09:00-10:00 HOUR	45.4	64.5	43.8
10:00-11:00 HOUR	47.6	68.5	46.3
11:00-12:00 HOUR	47.8	67.1	46.6
12:00-13:00 HOUR	51.0	69.7	50.1
13:00-14:00 HOUR	50.0	70.2	48.6
14:00-15:00 HOUR	50.4	69.2	49.2
15:00-16:00 HOUR	51.1	69.8	49.8
16:00-17:00 HOUR	50.6	68.6	49.5
17:00-18:00 HOUR	49.6	69.3	48.3
18:00-19:00 HOUR	50.3	68.4	48.9
19:00-20:00 HOUR	51.2	72.2	50.0
20:00-21:00 HOUR	51.1	68.4	50.0
21:00-22:00 HOUR	49.1	65.7	48.0
22:00-23:00 HOUR	49.2	66.3	48.2
23:00-00:00 HOUR	51.4	67.0	49.9
00:00-01:00 HOUR	49.2	65.0	48.3
01:00-02:00 HOUR	51.5	68.7	50.1
02:00-03:00 HOUR	49.8	71.0	48.2
03:00-04:00 HOUR	48.5	67.1	47.3
04:00-05:00 HOUR	46.5	66.3	45.6
05:00-06:00 HOUR	46.0	68.3	44.6
06:00-07:00 HOUR	45.0	65.3	43.7
L _{Aeq} 24 hours		49.6	
L _{Adn}		55.6	

TIME*	RESULT dB(A)		
	บ้านอ่าวอุดม		
	MARCH 27-28, 2024		
	T24AH160-0017		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	47.3	64.1	46.0
08:00-09:00 HOUR	47.1	65.4	45.8
09:00-10:00 HOUR	44.7	61.6	43.2
10:00-11:00 HOUR	45.8	64.4	44.2
11:00-12:00 HOUR	49.1	69.3	47.7
12:00-13:00 HOUR	54.1	71.4	52.9
13:00-14:00 HOUR	49.6	68.9	48.3
14:00-15:00 HOUR	51.0	72.8	49.6
15:00-16:00 HOUR	52.8	73.8	51.7
16:00-17:00 HOUR	52.3	72.0	50.9
17:00-18:00 HOUR	53.4	72.1	52.2
18:00-19:00 HOUR	53.6	74.8	52.2
19:00-20:00 HOUR	51.4	71.1	50.3
20:00-21:00 HOUR	52.1	71.9	50.9
21:00-22:00 HOUR	52.1	71.3	51.0
22:00-23:00 HOUR	53.3	74.2	52.3
23:00-00:00 HOUR	51.6	70.5	50.5
00:00-01:00 HOUR	49.4	70.2	48.3
01:00-02:00 HOUR	47.3	64.2	46.2
02:00-03:00 HOUR	50.4	71.6	49.4
03:00-04:00 HOUR	48.1	67.6	47.0
04:00-05:00 HOUR	46.4	65.6	45.1
05:00-06:00 HOUR	47.4	66.8	46.1
06:00-07:00 HOUR	47.2	69.7	46.1
L _{Aeq} 24 hours		50.7	
L _{Adn}		56.3	

TIME*	RESULT dB(A)		
	บ้านธารฤๅณ		
	MARCH 28-29, 2024		
	T24AH160-0018		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	44.9	64.0	43.8
08:00-09:00 HOUR	45.9	64.1	44.4
09:00-10:00 HOUR	46.0	64.9	44.8
10:00-11:00 HOUR	46.7	67.4	45.5
11:00-12:00 HOUR	50.0	67.1	48.6
12:00-13:00 HOUR	48.7	68.7	47.4
13:00-14:00 HOUR	48.7	67.5	47.5
14:00-15:00 HOUR	50.0	69.0	48.7
15:00-16:00 HOUR	53.6	71.6	52.1
16:00-17:00 HOUR	53.0	72.2	51.8
17:00-18:00 HOUR	51.3	70.9	50.1
18:00-19:00 HOUR	54.5	73.7	53.2
19:00-20:00 HOUR	52.4	71.8	50.9
20:00-21:00 HOUR	54.0	71.5	52.7
21:00-22:00 HOUR	51.8	68.6	50.6
22:00-23:00 HOUR	49.7	65.9	48.6
23:00-00:00 HOUR	48.4	65.9	47.2
00:00-01:00 HOUR	46.5	63.3	45.3
01:00-02:00 HOUR	50.5	69.7	49.3
02:00-03:00 HOUR	50.3	69.7	48.7
03:00-04:00 HOUR	49.6	70.8	48.1
04:00-05:00 HOUR	45.7	66.3	44.7
05:00-06:00 HOUR	46.5	64.7	45.2
06:00-07:00 HOUR	46.0	66.3	44.5
L _{Aeq} 24 hours		50.3	
L _{Adn}		55.4	

TIME*	RESULT dB(A)		
	มาตรฐานกรม		
	MARCH 29-30, 2024		
	T24AH160-0019		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	47.6	68.6	46.4
08:00-09:00 HOUR	46.5	67.1	45.4
09:00-10:00 HOUR	46.2	66.2	44.7
10:00-11:00 HOUR	46.3	68.1	45.1
11:00-12:00 HOUR	49.3	70.1	48.3
12:00-13:00 HOUR	51.0	72.2	49.6
13:00-14:00 HOUR	50.6	72.7	49.2
14:00-15:00 HOUR	49.9	70.0	48.8
15:00-16:00 HOUR	52.5	72.7	51.2
16:00-17:00 HOUR	54.7	77.2	53.3
17:00-18:00 HOUR	54.8	76.9	53.4
18:00-19:00 HOUR	52.6	70.4	51.4
19:00-20:00 HOUR	53.5	73.6	52.0
20:00-21:00 HOUR	54.6	74.9	53.5
21:00-22:00 HOUR	49.5	69.4	48.4
22:00-23:00 HOUR	49.1	65.8	47.7
23:00-00:00 HOUR	47.8	67.3	46.8
00:00-01:00 HOUR	47.7	64.9	46.7
01:00-02:00 HOUR	50.3	71.7	49.0
02:00-03:00 HOUR	49.9	68.9	48.5
03:00-04:00 HOUR	47.4	68.7	46.5
04:00-05:00 HOUR	47.7	66.1	46.4
05:00-06:00 HOUR	47.6	68.3	46.4
06:00-07:00 HOUR	51.6	69.1	50.5
L _{Aeq} 24 hours		50.8	
L _{Adn}		55.9	

TIME*	RESULT dB(A)		
	หน่วยวัดความดัง		
	MARCH 30-31, 2024		
	T24AH160-0020		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	49.5	67.8	48.3
08:00-09:00 HOUR	52.3	70.7	51.2
09:00-10:00 HOUR	50.4	69.3	49.1
10:00-11:00 HOUR	51.9	70.4	50.9
11:00-12:00 HOUR	50.1	68.3	49.2
12:00-13:00 HOUR	48.5	68.0	47.2
13:00-14:00 HOUR	50.3	69.3	49.0
14:00-15:00 HOUR	50.4	71.4	49.3
15:00-16:00 HOUR	53.7	72.0	52.6
16:00-17:00 HOUR	51.6	70.6	50.3
17:00-18:00 HOUR	54.5	73.6	53.3
18:00-19:00 HOUR	52.5	72.2	51.1
19:00-20:00 HOUR	52.7	71.7	51.6
20:00-21:00 HOUR	52.1	70.4	50.7
21:00-22:00 HOUR	54.1	73.3	53.0
22:00-23:00 HOUR	54.1	73.3	52.6
23:00-00:00 HOUR	53.1	74.4	51.8
00:00-01:00 HOUR	50.3	67.8	48.9
01:00-02:00 HOUR	46.4	63.9	45.3
02:00-03:00 HOUR	48.3	66.6	47.2
03:00-04:00 HOUR	49.8	71.1	48.6
04:00-05:00 HOUR	45.9	65.2	44.7
05:00-06:00 HOUR	46.9	67.9	45.5
06:00-07:00 HOUR	46.8	66.2	45.5
L _{Aeq} 24 hours		51.3	
L _{Adn}		56.8	

TIME*	RESULT dB(A)		
	มาตรฐาน		
	MARCH 31 - APRIL 1, 2024		
	T24AH160-0021		
	L _{Aeq} 1 hour	L _{Amax} 1 hour	L _{A90} 1 hour
07:00-08:00 HOUR	45.3	65.3	44.3
08:00-09:00 HOUR	44.1	64.2	42.7
09:00-10:00 HOUR	45.9	67.1	44.7
10:00-11:00 HOUR	45.9	65.7	44.5
11:00-12:00 HOUR	50.5	68.6	49.5
12:00-13:00 HOUR	49.2	68.3	47.7
13:00-14:00 HOUR	50.6	69.6	49.5
14:00-15:00 HOUR	51.0	71.2	49.7
15:00-16:00 HOUR	54.8	72.5	53.9
16:00-17:00 HOUR	54.2	74.5	52.9
17:00-18:00 HOUR	55.3	72.7	54.1
18:00-19:00 HOUR	54.0	75.3	52.9
19:00-20:00 HOUR	53.2	71.4	52.2
20:00-21:00 HOUR	55.0	76.0	53.9
21:00-22:00 HOUR	53.1	69.6	51.7
22:00-23:00 HOUR	51.2	69.9	50.2
23:00-00:00 HOUR	51.0	66.8	49.6
00:00-01:00 HOUR	49.2	67.1	48.2
01:00-02:00 HOUR	48.9	65.7	47.7
02:00-03:00 HOUR	46.9	63.1	45.8
03:00-04:00 HOUR	50.1	69.0	48.9
04:00-05:00 HOUR	46.2	66.4	44.7
05:00-06:00 HOUR	47.4	68.2	46.0
06:00-07:00 HOUR	47.9	65.6	46.7
L _{Aeq} 24 hours	51.2		
L _{Adn}	56.1		

Sila Banjongjairuk

(MR SILA BANJONGJAIRUK)
LABORATORY SUPERVISOR

APRIL 9, 2024

ภาคผนวก ก-4

ผลการติดตามตรวจสอบคุณภาพน้ำทิ้งที่ปล่อยออกจากพื้นที่โครงการ

ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 0 3840 7407 #7446 e-mail : chawanrat.t@gpscgroup.com
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JANUARY 3, 2024
SAMPLING TIME : 14:35 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : JANUARY 3, 2024
ANALYTICAL DATE : JANUARY 3-9, 2024
REPORT NO. : 2024-U003235
WORK NO. : 2023-010868
ANALYSIS NO. : T24AA095-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			COOLING EFFLUENT T24AA095-0001	
pH ^c	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	7.5 (28°C)	-
ELECTRICAL CONDUCTIVITY ^c	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	688 (28°C)	0.1
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	25.0
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	342	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

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

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

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

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JANUARY 12, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 0 3840 7407 #7446 e-mail : chawanrat.t@gpscgroup.com
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JANUARY 3, 2024
SAMPLING TIME : 14:35 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR THANADET WANSANOR
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : JANUARY 3, 2024
ANALYTICAL DATE : JANUARY 3-8, 2024
REPORT NO. : 2024-U003236
WORK NO. : 2023-010868
ANALYSIS NO. : T24AA095-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			COOLING EFFLUENT T24AA095-0002	
ELECTRICAL CONDUCTIVITY ^c	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	688 (28°C)	0.1
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM: PART 2550 B)	28	-
TOTAL PHOSPHATE ^c	mg/L PO ₄ ³⁻	PERSULPHATE DIGESTION AND ASCORBIC ACID METHOD (SM: PART 4500-P B AND PART 4500-P E)	0.49	0.03
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	1.5
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/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

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
ND : NON-DETECTABLE.
< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN ≥ 1.5 AND < 5.0 mg/L).

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

JANUARY 12, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 0 3840 7407 #7446 e-mail : chawanrat.t@gpscgroup.com
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : FEBRUARY 7, 2024
SAMPLING TIME : 14:40 HOUR
SAMPLING METHOD ^c : GRAB
SAMPLING BY ^c : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : FEBRUARY 8, 2024
ANALYTICAL DATE : FEBRUARY 8-13, 2024
ISSUE DATE : FEBRUARY 19, 2024
REPORT NO. : 2024-U013841
WORK NO. : 2023-010868
ANALYSIS NO. : T24AC483-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			COOLING EFFLUENT T24AC483-0001	
pH ^c	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	7.6 (31°C)	-
ELECTRICAL CONDUCTIVITY ^c	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	539 (31°C)	0.1
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	25.0
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	302	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

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

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

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

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

FEBRUARY 19, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 0 3840 7407 #7446 e-mail : chawanrat.t@gpscgroup.com
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : FEBRUARY 7, 2024
SAMPLING TIME : 14:40 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : FEBRUARY 8, 2024
ANALYTICAL DATE : FEBRUARY 8-15, 2024
ISSUE DATE : FEBRUARY 19, 2024
REPORT NO. : 2024-U013842
WORK NO. : 2023-010868
ANALYSIS NO. : T24AC483-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			COOLING EFFLUENT T24AC483-0002	
ELECTRICAL CONDUCTIVITY	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	539 (31°C)	0.1
TEMPERATURE	°C	THERMOMETER AT SITE (SM: PART 2550 B)	31	-
TOTAL PHOSPHATE	mg/L PO ₄ ³⁻	PERSULPHATE DIGESTION AND ASCORBIC ACID METHOD (SM: PART 4500-P B AND PART 4500-P E)	0.24	0.03
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	ND	1.5
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR YELLOW	

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

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

FEBRUARY 19, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 0 3840 7407 #7446 e-mail : chawanrat.t@gpscgroup.com
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MARCH 6, 2024
SAMPLING TIME : 14:15 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : MARCH 7, 2024
ANALYTICAL DATE : MARCH 7-12, 2024
ISSUE DATE : MARCH 15, 2024
REPORT NO. : 2024-U021125
WORK NO. : 2023-010868
ANALYSIS NO. : T24AE615-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			COOLING EFFLUENT T24AE615-0001	
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	7.1 (30°C)	-
ELECTRICAL CONDUCTIVITY ^c	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	437 (30°C)	0.1
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	ND	2.0
CHEMICAL OXYGEN DEMAND ^c	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	ND	25.0
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	263	25
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR YELLOW	

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

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

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

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 18, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 0 3840 7407 #7446 e-mail : chawanrat.t@gpscgroup.com
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MARCH 6, 2024
SAMPLING TIME : 14:15 HOUR
SAMPLING METHOD ° : GRAB
SAMPLING BY ° : MR THANADET WANSANOR
ANALYZED BY : MISS ARIYA THARAROM

RECEIVED DATE : MARCH 7, 2024
ANALYTICAL DATE : MARCH 7-13, 2024
ISSUE DATE : MARCH 15, 2024
REPORT NO. : 2024-U021126
WORK NO. : 2023-010868
ANALYSIS NO. : T24AE615-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			COOLING EFFLUENT T24AE615-0002	
ELECTRICAL CONDUCTIVITY °	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	437 (30°C)	0.1
TEMPERATURE °	°C	THERMOMETER AT SITE (SM: PART 2550 B)	30	-
TOTAL PHOSPHATE °	mg/L PO ₄ ³⁻	PERSULPHATE DIGESTION AND ASCORBIC ACID METHOD (SM: PART 4500-P B AND PART 4500-P E)	0.21	0.03
TOTAL KJELDAHL NITROGEN °	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	1.5
FAT, OIL AND GREASE °	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION				
WATER'S COLOUR/TURBID			YELLOW/CLEAR	
SEDIMENT			YELLOW	

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

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

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

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23RD EDITION, 2017.
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23RD EDITION, 2017.
ND : NON-DETECTABLE.
< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN ≥ 1.5 AND < 5.0 mg/L).

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

MARCH 18, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 0 3840 7407 #7446 e-mail : chawanrat.t@gpscgroup.com
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : APRIL 10, 2024
SAMPLING TIME : 11:00 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : APRIL 11, 2024
ANALYTICAL DATE : APRIL 11-24, 2024
ISSUE DATE : APRIL 26, 2024
REPORT NO. : 2024-U035611
WORK NO. : 2024-002943
ANALYSIS NO. : T24AH751-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			COOLING EFFLUENT T24AH751-0001	
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.1 (32°C)	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM: PART 2550 B)	32	-
ELECTRICAL CONDUCTIVITY ^c	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	1,294 (32°C)	0.1
BIOCHEMICAL OXYGEN DEMAND ^a	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	38.9	25.0
TOTAL SUSPENDED SOLIDS ^c	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	910	25
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	1.5
TOTAL PHOSPHORUS ^c	mg/L P	PERSULPHATE DIGESTION AND ASCORBIC ACID METHOD (SM: PART 4500-P B AND PART 4500-P E)	0.11	0.01
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

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

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

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

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

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

ND : NON-DETECTABLE.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN ≥ 1.5 AND < 5.0 mg/L).

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

APRIL 26, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 0 3840 7407 #7446 e-mail : chawanrat.t@gpscgroup.com
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : MAY 8, 2024
SAMPLING TIME : 14:10 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : MAY 8, 2024
ANALYTICAL DATE : MAY 8-16, 2024
ISSUE DATE : MAY 17, 2024
REPORT NO. : 2024-U042227
WORK NO. : 2024-002943
ANALYSIS NO. : T24AJ583-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บริเวณจุดปล่อยน้ำทิ้งออกสู่ ภายนอกโครงการ T24AJ583-0001	
pH	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.9 (31°C)	-
TEMPERATURE	°C	THERMOMETER AT SITE (SM: PART 2550 B)	31	-
ELECTRICAL CONDUCTIVITY	µS/cm	ELECTRICAL CONDUCTIVITY METHOD AT SITE (SM: PART 2510 B)	1,751 (31°C)	0.1
BIOCHEMICAL OXYGEN DEMAND	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	2.0
CHEMICAL OXYGEN DEMAND	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	50.0	25.0
TOTAL SUSPENDED SOLIDS	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	ND	5.0
TOTAL DISSOLVED SOLIDS	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	959	25
TOTAL KJELDAHL NITROGEN	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	1.5
TOTAL PHOSPHORUS	mg/L P	PERSULPHATE DIGESTION AND ASCORBIC ACID METHOD (SM: PART 4500-P B AND PART 4500-P E)	0.14	0.01
FAT, OIL AND GREASE	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/CLEAR BROWN	

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
SM : STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 23rd EDITION, 2017.
ND : NON-DETECTABLE.
< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN ≥ 1.5 AND < 5.0 mg/L).


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



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 0 3840 7407 #7446 e-mail : chawanrat.t@gpscgroup.com
SAMPLING SOURCE : -
SAMPLE TYPE : EFFLUENT
SAMPLING DATE : JUNE 6, 2024
SAMPLING TIME : 13:30 HOUR
SAMPLING METHOD : GRAB
SAMPLING BY : MR THANADET WANSANOR
ANALYZED BY : MISS NAPAPORN KHUNNOKKHUM

RECEIVED DATE : JUNE 7, 2024
ANALYTICAL DATE : JUNE 7-14, 2024
ISSUE DATE : JUNE 18, 2024
REPORT NO. : 2024-U053997
WORK NO. : 2024-002943
ANALYSIS NO. : T24AM393-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บริเวณจุดปล่อยน้ำทิ้ง ออกสู่ภายนอกโครงการ T24AM393-0001	
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.8 (30°C)	-
TEMPERATURE ^c	°C	THERMOMETER (AT SITE) SM: PART 2550 B	30	-
ELECTRICAL CONDUCTIVITY ^b	µS/cm	ELECTRICAL CONDUCTIVITY METHOD (AT SITE) SM: PART 2510 B AND 1060 B	186 (30°C)	0.1
BIOCHEMICAL OXYGEN DEMAND * ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	< 2.0	2.0
CHEMICAL OXYGEN DEMAND ^a	mg/L	CLOSED REFLUX, COLOURIMETRIC METHOD (SM: PART 5220 D)	48.2	25.0
TOTAL SUSPENDED SOLIDS ^a	mg/L	TOTAL SUSPENDED SOLIDS DRIED AT 103-105 °C (SM: PART 2540 D)	17.2	5.0
TOTAL DISSOLVED SOLIDS ^b	mg/L	TOTAL DISSOLVED SOLIDS DRIED AT 180 °C (SM: PART 2540 C)	951	25
TOTAL KJELDAHL NITROGEN ^b	mg/L	IN-HOUSE METHOD: UAE.TP.WAS.001 (KJELDAHL METHOD); SM: PART 4500-Norg C	< LOQ	1.5
TOTAL PHOSPHORUS ^c	mg/L P	PERSULPHATE DIGESTION AND ASCORBIC ACID METHOD (SM: PART 4500-P B AND PART 4500-P E)	0.18	0.01



PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			บริเวณจุดปล่อยน้ำทิ้ง ออกสู่ภายนอกโครงการ T24AM393-0001	
FAT, OIL AND GREASE ^c	mg/L	LIQUID-LIQUID, PARTITION-GRAVIMETRIC METHOD (SM: PART 5520 B)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			YELLOW/TURBID BROWN	

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

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

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

IN-HOUSE : BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA, WEF, 24th EDITION, 2023.

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

* : ADDITION OF NITRIFICATION INHIBITION (TCMP) FOLLOW TO THE SM: 5210B.5(e).

ND : NOT DETECTED.

< LOQ : < LIMIT OF QUANTITATION (TOTAL KJELDAHL NITROGEN \geq 1.5 AND < 5.0 mg/L).

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

ภาคผนวก ก-5

ผลการติดตามตรวจสอบคุณภาพน้ำทะเล

ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
SAMPLING SOURCE : IN FRONT OF THAI OIL PUBLIC COMPANY LIMITED
(42/1 MOO 1, SUKHUMVIT ROAD KM.124, TUNGSUKLA, SRIRACHA, CHONBURI 20230.)
SAMPLE TYPE : SEAWATER
SAMPLING DATE : APRIL 11, 2024
SAMPLING TIME : 11:30 HOUR
SAMPLING METHOD ^c : COMPOSITE
SAMPLING BY ^c : MR ANUSART SUAYDEE
ANALYZED BY : MISS KANNIKAR SUMLEETHA
RECEIVED DATE : APRIL 11, 2024
ANALYTICAL DATE : APRIL 11-19, 2024
ISSUE DATE : APRIL 25, 2024
REPORT NO. : 2024-U034535
WORK NO. : 2022-006185
ANALYSIS NO. : T24AH865-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			REFINERY OUTFALL T24AH865-0001	
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.2 (32°C)	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM: PART 2550 B)	32	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G)	4.7	0.5
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.8	0.5
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE.TP.WAT.001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 23rd ED., 2017, PART 4500-NH ₃ H	132	10.0
FAT, OIL AND GREASE ^c	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

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

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

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

APRIL 25, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
SAMPLING SOURCE : IN FRONT OF THAI OIL PUBLIC COMPANY LIMITED
(42/1 MOO 1, SUKHUMVIT ROAD KM.124, TUNGSUKLA, SRIRACHA, CHONBURI 20230.)
SAMPLE TYPE : SEAWATER
SAMPLING DATE : APRIL 11, 2024
SAMPLING TIME : 11:10 HOUR
SAMPLING METHOD ^c : COMPOSITE
SAMPLING BY ^c : MR ANUSART SUAYDEE
ANALYZED BY : MISS KANNIKAR SUMLEETHA

RECEIVED DATE : APRIL 11, 2024
ANALYTICAL DATE : APRIL 11-19, 2024
ISSUE DATE : APRIL 25, 2024
REPORT NO. : 2024-U034536
WORK NO. : 2022-006185
ANALYSIS NO. : T24AH865-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			JETTY # 3 T24AH865-0002	
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.2 (32°C)	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM: PART 2550 B)	32	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G)	5.2	0.5
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	2.3	0.5
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE.TP.WAT.001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 23rd ED., 2017, PART 4500-NH ₃ H	98.1	10.0
FAT, OIL AND GREASE ^c	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

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

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

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

APRIL 25, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
SAMPLING SOURCE : IN FRONT OF THAI OIL PUBLIC COMPANY LIMITED
(42/1 MOO 1, SUKHUMVIT ROAD KM.124, TUNGSUKLA, SRIRACHA, CHONBURI 20230.)
SAMPLE TYPE : SEAWATER
SAMPLING DATE : APRIL 11, 2024
SAMPLING TIME : 10:25 HOUR
SAMPLING METHOD ^c : COMPOSITE
SAMPLING BY ^c : MR ANUSART SUAYDEE
ANALYZED BY : MISS KANNIKAR SUMLEETHA
RECEIVED DATE : APRIL 11, 2024
ANALYTICAL DATE : APRIL 11-19, 2024
ISSUE DATE : APRIL 25, 2024
REPORT NO. : 2024-U034537
WORK NO. : 2022-006185
ANALYSIS NO. : T24AH865-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			CONVENTIONAL BUOY MOORING T24AH865-0003	
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.2 (32°C)	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM: PART 2550 B)	32	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G)	5.1	0.5
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.9	0.5
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE.TP.WAT.001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 23 rd ED., 2017, PART 4500-NH ₃ H	101	10.0
FAT, OIL AND GREASE ^c	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

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

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

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

APRIL 25, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
SAMPLING SOURCE : IN FRONT OF THAI OIL PUBLIC COMPANY LIMITED
(42/1 MOO 1, SUKHUMVIT ROAD KM.124, TUNGSUKLA, SRIRACHA, CHONBURI 20230.)
SAMPLE TYPE : SEAWATER
SAMPLING DATE : APRIL 11, 2024
SAMPLING TIME : 10:00 HOUR
SAMPLING METHOD ^c : COMPOSITE
SAMPLING BY ^c : MR ANUSART SUAYDEE
ANALYZED BY : MISS KANNIKAR SUMLEETHA
RECEIVED DATE : APRIL 11, 2024
ANALYTICAL DATE : APRIL 11-19, 2024
ISSUE DATE : APRIL 25, 2024
REPORT NO. : 2024-U034538
WORK NO. : 2022-006185
ANALYSIS NO. : T24AH865-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SINGLE BUOY MOORING 1 T24AH865-0004	
pH ^a	-	ELECTROMETRIC METHOD (AT SITE) SM: PART 4500 -H ⁺ B AND 1060 B	8.2 (32°C)	-
TEMPERATURE ^c	°C	THERMOMETER AT SITE (SM: PART 2550 B)	32	-
DISSOLVED OXYGEN ^c	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: PART 4500-O G)	5.1	0.5
BIOCHEMICAL OXYGEN DEMAND ^c	mg/L	MEMBRANE ELECTRODE METHOD (SM: PART 5210 B AND PART 4500-O G)	1.7	0.5
TOTAL AMMONIA ^b	µg/L N	IN-HOUSE METHOD: UAE.TP.WAT.001 BASED ON STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER, APHA, AWWA&WEF, 23rd ED., 2017, PART 4500-NH ₃ H	92.7	10.0
FAT, OIL AND GREASE ^c	mg/L	SOXHLET EXTRACTION METHOD (SM: PART 5520 D)	ND	3
SAMPLE CONDITION WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

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

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

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

ND : NON-DETECTABLE.

Piyapat S.

(MRS PIYAPAT SUTTAMANUTWONG)
LABORATORY SUPERVISOR

APRIL 25, 2024



ภาคผนวก ก-6

ผลการติดตามตรวจสอบระดับเสียงเฉลี่ย 5 นาที

ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
MEASURING PLACE : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
MEASURING TYPE : WORKPLACE (NOISE) **RECEIVED DATE** : MARCH 18, 2024
MEASURING DATE : MARCH 18, 2024 **ANALYTICAL DATE** : MARCH 18, 2024
MEASURING TIME : * **ISSUE DATE** : MARCH 25, 2024
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER **REPORT NO.** : 2024-U023988
MEASURED BY : MR KHWANCHAI PHONTHUK **WORK NO.** : 2022-006185
ANALYSIS NO. : T24AF842-0001 - T24AF842-0024

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L _{Aeq} 5 min	L _{Amax} 5 min
T24AF842-0001	BFP CT2	10:35-10:40	63.1	72.7
T24AF842-0002	STEAM LINE HRSG2	10:37-10:42	60.3	64.5
T24AF842-0003	CT2 ENCLOSURE 1	10:39-10:44	60.3	68.5
T24AF842-0004	BLOW DOWN TANK CT2	10:41-10:46	63.1	74.0
T24AF842-0005	CT2 ENCLOSURE 2	10:47-10:52	64.3	71.2
T24AF842-0006	AIR INLET CT2	10:49-10:54	73.5	75.4
T24AF842-0007	CT2 TRANSFORMER	10:51-10:56	65.9	70.9
T24AF842-0008	CT2 GENERATOR	10:53-10:58	78.5	79.3
T24AF842-0009	MECHANICAL PACKAGE 2	10:59-11:04	75.3	76.1
T24AF842-0010	BFP CT1	11:01-11:06	60.4	62.6
T24AF842-0011	STEAM LINE HRSG1	11:03-11:08	61.5	64.1
T24AF842-0012	CT1 ENCLOSURE 1	11:05-11:10	62.1	64.1
T24AF842-0013	BLOW DOWN TANK CT1	11:11-11:16	60.9	63.4
T24AF842-0014	CT1 ENCLOSURE 2	11:13-11:18	70.4	77.2
T24AF842-0015	AIR INLET CT1	11:15-11:20	75.8	79.5
T24AF842-0016	CT1 TRANSFORMER	11:17-11:22	68.9	69.9
T24AF842-0017	CT1 GENERATOR	11:23-11:28	78.2	79.0
T24AF842-0018	MECHANICAL PACKAGE 1	11:25-11:30	76.9	79.2
T24AF842-0019	ST TRANSFORMER	11:27-11:32	65.4	72.1
T24AF842-0020	ST GENERATOR	11:29-11:34	74.2	75.3
T24AF842-0021	CONDENSER	11:35-11:40	71.7	79.9
T24AF842-0022	ST LUBE OIL COOLER	11:37-11:42	70.8	72.9
T24AF842-0023	AUXILIARY CW PUMP	11:39-11:44	69.9	71.1
T24AF842-0024	CIRCULATING PUMP	11:41-11:46	60.4	63.4

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

MARCH 25, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
MEASURING PLACE : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
MEASURING TYPE : WORKPLACE (NOISE) **RECEIVED DATE** : MAY 3, 2024
MEASURING DATE : MAY 3, 2024 **ANALYTICAL DATE** : MAY 3, 2024
MEASURING TIME : * **ISSUE DATE** : MAY 9, 2024
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER **REPORT NO.** : 2024-U039215
MEASURED BY : MR KHWANCHAI PHONTHUK **WORK NO.** : 2022-006185
ANALYSIS NO. : T24AJ380-0001 - T24AJ380-0024

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L _{Aeq} 5 min	L _{Amax} 5 min
T24AJ380-0001	BFP CT2	09:15-09:20	77.4	78.7
T24AJ380-0002	STEAM LINE HRSG2	09:17-09:22	79.5	81.2
T24AJ380-0003	CT2 ENCLOSURE 1	09:19-09:24	84.8	85.0
T24AJ380-0004	BLOW DOWN TANK CT2	09:21-09:26	75.4	80.0
T24AJ380-0005	CT2 ENCLOSURE 2	09:28-09:33	80.1	81.0
T24AJ380-0006	AIR INLET CT2	09:30-09:35	82.9	83.4
T24AJ380-0007	CT2 TRANSFORMER	09:32-09:37	78.8	79.4
T24AJ380-0008	CT2 GENERATOR	09:34-09:39	83.1	83.4
T24AJ380-0009	MECHANICAL PACKAGE 2	09:41-09:46	79.9	80.7
T24AJ380-0010	BFP CT1	09:43-09:48	80.2	81.2
T24AJ380-0011	STEAM LINE HRSG1	09:45-09:50	81.3	81.7
T24AJ380-0012	CT1 ENCLOSURE 1	09:47-09:52	86.2	87.1
T24AJ380-0013	BLOW DOWN TANK CT1	09:54-09:59	79.4	80.1
T24AJ380-0014	CT1 ENCLOSURE 2	09:56-10:01	80.3	80.7
T24AJ380-0015	AIR INLET CT1	09:58-10:03	83.6	84.0
T24AJ380-0016	CT1 TRANSFORMER	10:00-10:05	79.6	80.6
T24AJ380-0017	CT1 GENERATOR	10:07-10:12	83.6	84.0
T24AJ380-0018	MECHANICAL PACKAGE 1	10:09-10:14	79.3	79.5
T24AJ380-0019	ST TRANSFORMER	10:11-10:16	78.7	79.6
T24AJ380-0020	ST GENERATOR	10:13-10:18	82.0	82.4
T24AJ380-0021	CONDENSER	10:20-10:25	79.4	79.9
T24AJ380-0022	ST LUBE OIL COOLER	10:22-10:27	83.5	84.2



ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L _{Aeq} 5 min	L _{Amax} 5 min
T24AJ380-0023	AUXILIATY CW PUMP	10:24-10:29	79.5	82.3
T24AJ380-0024	CIRCULATING PUMP	10:26-10:31	85.2	85.8

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

ภาคผนวก ก-7

ผลการติดตามตรวจสอบระดับเสียงเฉลี่ย 8 ชั่วโมง และ 12 ชั่วโมง

ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
MEASURING PLACE : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
MEASURING TYPE : WORKPLACE (NOISE) **RECEIVED DATE** : MARCH 18, 2024
MEASURING DATE : MARCH 18, 2024 **ANALYTICAL DATE** : MARCH 18, 2024
MEASURING TIME : * **ISSUE DATE** : MARCH 25, 2024
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER **REPORT NO.** : 2024-U023986
MEASURED BY : MR KHWANCHAI PHONTHUK **WORK NO.** : 2022-006185
ANALYSIS NO. : T24AF840-0001

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L _{Aeq} 8 hours	L _{Amax} 8 hours
T24AF840-0001	บริเวณหน่วยผลิต	08:30-16:30	62.5	79.2

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

MARCH 25, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
MEASURING PLACE : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
MEASURING TYPE : WORKPLACE (NOISE) **RECEIVED DATE** : MARCH 18, 2024
MEASURING DATE : MARCH 18, 2024 **ANALYTICAL DATE** : MARCH 18, 2024
MEASURING TIME : * **ISSUE DATE** : MARCH 25, 2024
MEASURING EQUIPMENT : INTEGRATED SOUND LEVEL METER **REPORT NO.** : 2024-U023987
MEASURED BY : MR KHWANCHAI PHONTHUK **WORK NO.** : 2022-006185
ANALYSIS NO. : T24AF841-0001

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			LAeq 12 hours	LAmx 12 hours
T24AF841-0001	บริเวณหน่วยผลิต	08:30-20:30	63.2	81.9

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

MARCH 27, 2024



ภาคผนวก ก-8

ผลการติดตามตรวจสอบระดับเสียงสะสมตัวบุคคล

ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
MEASURING PLACE : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
MEASURING TYPE : WORKPLACE (NOISE DOSE) **RECEIVED DATE** : MARCH 18, 2024
MEASURING DATE : MARCH 18, 2024 **ANALYTICAL DATE** : MARCH 18, 2024
MEASURING TIME : * **ISSUE DATE** : MARCH 25, 2024
MEASURING EQUIPMENT : NOISE DOSE METER **REPORT NO.** : 2024-U023989
MEASURED BY : MR KHWANCHAI PHONTHUK **WORK NO.** : 2022-006185
ANALYSIS NO. : T24AF838-0001

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT		
			TWA _{8 HOUR} (dB(A))	L _{Amax} (dB(A))	DOSE (%)
T24AF838-0001	บริเวณ FO ช่วงเช้า (คุณจิรายุ)	07:15-15:15	72.9	100.0	6.15

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

MARCH 25, 2024

ISO 9001:2015 CERTIFIED

ISO 14001:2015 CERTIFIED

BY BSI GROUP (THAILAND) CO.,LTD.

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



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
MEASURING PLACE : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
MEASURING TYPE : WORKPLACE (NOISE DOSE) **RECEIVED DATE** : MARCH 18-19, 2024
MEASURING DATE : MARCH 18-19, 2024 **ANALYTICAL DATE** : MARCH 18-19, 2024
MEASURING TIME : * **ISSUE DATE** : MARCH 25, 2024
MEASURING EQUIPMENT : NOISE DOSE METER **REPORT NO.** : 2024-U024487
MEASURED BY : MR KHWANCHAI PHONTHUK **WORK NO.** : 2022-006185
ANALYSIS NO. : T24AF838-0002

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT		
			TWA _{8 HOUR} (dB(A))	L _{Amax} (dB(A))	DOSE (%)
T24AF838-0002	บริเวณ FO ช่วงดึก (คุณนพดล [REDACTED])	19:10-03:10	74.2	103.3	8.25

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

MARCH 25, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
MEASURING PLACE : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
MEASURING TYPE : WORKPLACE (NOISE DOSE) **RECEIVED DATE** : MARCH 18, 2024
MEASURING DATE : MARCH 18, 2024 **ANALYTICAL DATE** : MARCH 18, 2024
MEASURING TIME : * **ISSUE DATE** : MARCH 25, 2024
MEASURING EQUIPMENT : NOISE DOSE METER **REPORT NO.** : 2024-U023990
MEASURED BY : MR KHWANCHAI PHONTHUK **WORK NO.** : 2022-006185
ANALYSIS NO. : T24AF839-0001

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT			
			LAVG _{12 HOUR} (dB(A))	TWA _{8 HOUR} (dB(A))	L _{Amax} (dB(A))	DOSE (%)
T24AF839-0001	บริเวณ FO ช่วงเช้า (คุณจิราภรณ์)	07:15-19:15	71.1	72.9	100.0	6.15

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

MARCH 25, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
MEASURING PLACE : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
MEASURING TYPE : WORKPLACE (NOISE DOSE) **RECEIVED DATE** : MARCH 18-19, 2024
MEASURING DATE : MARCH 18-19, 2024 **ANALYTICAL DATE** : MARCH 18-19, 2024
MEASURING TIME : * **ISSUE DATE** : MARCH 25, 2024
MEASURING EQUIPMENT : NOISE DOSE METER **REPORT NO.** : 2024-U024488
MEASURED BY : MR KHWANCHAI PHONTHUK **WORK NO.** : 2022-006185
ANALYSIS NO. : T24AF839-0002

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT			
			LAVG _{12 HOUR} (dB(A))	TWA _{8 HOUR} (dB(A))	L _{Amax} (dB(A))	DOSE (%)
T24AF839-0002	บริเวณ FO ช่วงดึก (คุณพนดล [REDACTED])	19:10-07:10	72.4	74.2	103.3	8.25

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

MARCH 25, 2024



ภาคผนวก ก-9

ผลการติดตามตรวจสอบคุณภาพอากาศในสถานประกอบการ

ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
SAMPLING SOURCE : COOLING TOWER
SAMPLE TYPE : WORKPLACE
SAMPLING DATE : MARCH 18, 2024
SAMPLING TIME : 09:00-10:30 HOUR
SAMPLING BY : MR KHWANCHAI PHONTHUK
ANALYZED BY : MISS SUWAN KONGTHONG

RECEIVED DATE : MARCH 20, 2024
ANALYTICAL DATE : MARCH 20-27, 2024
ISSUE DATE : MARCH 29, 2024
REPORT NO. : 2024-U026863
WORK NO. : 2022-006185
ANALYSIS NO. : T24AF818-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			COOLING TOWER T24AF818-0001
SODIUM HYPOCHLORITE	mg/m ³	ION CHROMATOGRAPHIC METHOD (NIOSH METHOD 6011) AND CALCULATION METHOD	< 0.001
SAMPLE CONDITION			COMPLETE

REMARK

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

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

MARCH 29, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
SAMPLING SOURCE : DEMIN BUILDING
SAMPLE TYPE : WORKPLACE
SAMPLING DATE : MARCH 18, 2024
SAMPLING TIME : 09:10-17:10 HOUR
SAMPLING BY : MR KHWANCHAI PHONTHUK
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : MARCH 20, 2024
ANALYTICAL DATE : MARCH 20-27, 2024
ISSUE DATE : MARCH 29, 2024
REPORT NO. : 2024-U026865
WORK NO. : 2022-006185
ANALYSIS NO. : T24AF818-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			DEMIN BUILDING T24AF818-0002
SODIUM HYDROXIDE	mg/m ³	TITRATION METHOD (NIOSH METHOD 7401)	< 0.04
SULPHURIC ACID	mg/m ³	ION CHROMATOGRAPHIC METHOD (NIOSH METHOD 7903)	< 0.001
SAMPLE CONDITION			COMPLETE

REMARK

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

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

MARCH 29, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
SAMPLING SOURCE : NEUTRALIZATION SUMP
SAMPLE TYPE : WORKPLACE
SAMPLING DATE : MARCH 18, 2024
SAMPLING TIME : 09:13-17:13 HOUR
SAMPLING BY : MR KHWANCHAI PHONTHUK
ANALYZED BY : MISS JETJARIN TUMSA-AT

RECEIVED DATE : MARCH 20, 2024
ANALYTICAL DATE : MARCH 20-27, 2024
ISSUE DATE : MARCH 29, 2024
REPORT NO. : 2024-U026867
WORK NO. : 2022-006185
ANALYSIS NO. : T24AF818-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			NEUTRALIZATION SUMP T24AF818-0003
SODIUM HYDROXIDE	mg/m ³	TITRATION METHOD (NIOSH METHOD 7401)	< 0.04
SULPHURIC ACID	mg/m ³	ION CHROMATOGRAPHIC METHOD (NIOSH METHOD 7903)	< 0.001
SAMPLE CONDITION			COMPLETE

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

Budsakorn ✓

(MISS BUDSAKORN LERDPANUMAS)
LABORATORY SUPERVISOR

MARCH 29, 2024



ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
MEASURING PLACE : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
MEASURING TYPE : WORKPLACE (AIR) **RECEIVED DATE** : MARCH 19, 2024
MEASURING DATE : MARCH 19, 2024 **ANALYTICAL DATE** : MARCH 19, 2024
MEASURING TIME : * **ISSUE DATE** : MARCH 25, 2024
MEASURING EQUIPMENT : THC ANALYZER **REPORT NO.** : 2024-U023984
MEASURED BY : MR KHWANCHAI PHONTHUK **WORK NO.** : 2022-006185
ANALYSIS NO. : T24AF818-0004 - T24AF818-0005

ANALYSIS NO.	MEASURING SITE	TIME*	RESULT (ppm)
			TOTAL HYDROCARBONS
T24AF818-0004	PROPANE TANK	08:15-16:15 HOUR	2.50
T24AF818-0005	NG GAS SEPARATOR OF GT-11	08:20-16:20 HOUR	1.05



(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

MARCH 25, 2024



ภาคผนวก ก-10

ผลการติดตามตรวจสอบความร้อนในสถานประกอบการ

ANALYSIS REPORT

CUSTOMER NAME : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
ADDRESS : 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHILA SI RACHA CHON BURI 20230
CONTACT INFORMATION : TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com
MEASURING PLACE : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED
MEASURING TYPE : WORKPLACE (HEAT STRESS) **RECEIVED DATE** : MARCH 18, 2024
MEASURING DATE : MARCH 18, 2024 **ANALYTICAL DATE** : MARCH 18, 2024
MEASURING TIME : * **ISSUE DATE** : MARCH 25, 2024
MEASURING EQUIPMENT : WET BULB GLOBE TEMPERATURE **REPORT NO.** : 2024-U023985
MEASURED BY : MR KHWANCHAI PHONTHUK **WORK NO.** : 2022-006185
ANALYSIS NO. : T24AF837-0001 - T24AF837-0007

ANALYSIS NO.	MEASURING SITE	DURATION TIME*	RESULT (DEGREE CELSIUS)				
			NWB	DB	GT	WBGT	WBGT AVG
T24AF837-0001	STEAM LINE HRSG 1 (คุณวงศ์ธร [REDACTED])	10:15 - 11:35 HOUR	27.6	32.4	43.1	32.3	29.8
		11:35 - 12:15 HOUR	24.3	25.5	26.3	24.9	
T24AF837-0002	STEAM LINE HRSG 2 (คุณจิรภัทร [REDACTED])	10:10 - 11:30 HOUR	27.7	32.3	42.3	32.1	29.7
		11:30 - 12:10 HOUR	24.5	25.7	26.4	25.0	
T24AF837-0003	COMBUSTION TURBINE 1 (คุณพลวัฒน์ [REDACTED])	10:20 - 11:40 HOUR	28.1	32.7	35.6	30.3	28.6
		11:40 - 12:20 HOUR	24.6	25.7	26.8	25.2	
T24AF837-0004	COMBUSTION TURBINE 2 (คุณจาตุรนต์ [REDACTED])	10:25 - 11:45 HOUR	27.8	32.5	35.5	30.1	28.4
		11:45 - 12:25 HOUR	24.4	25.6	26.5	25.0	
T24AF837-0005	BOILER 1 (คุณพลวัฒน์ [REDACTED])	13:20 - 14:40 HOUR	27.0	33.9	35.8	29.6	28.2
		14:40 - 15:20 HOUR	24.8	26.1	26.9	25.4	
T24AF837-0006	BOILER 2 (คุณจาตุรนต์ [REDACTED])	13:00 - 14:20 HOUR	27.1	31.7	41.0	31.2	29.3
		14:20 - 15:00 HOUR	24.8	26.3	27.0	25.4	
T24AF837-0007	STEAM TURBINE (คุณมานพ [REDACTED])	13:30 - 14:50 HOUR	26.5	33.9	35.5	29.2	28.0
		14:50 - 15:30 HOUR	24.9	26.3	27.2	25.6	

Nattawat

(MR NATTAWAT DANGSAWAT)
LABORATORY SUPERVISOR

MARCH 25, 2024

