

# ภาคผนวก

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## ภาคผนวก ก

ผลการติดตามตรวจสอบคุณภาพสิ่งแวดล้อม



## ภาคผนวก ก-1

### ผลการติดตามตรวจสอบคุณภาพอากาศในบรรยากาศ



## 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** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED 42/3 MOO 1, SUKHUMVIT ROAD KM.124, TUNGSUKLA SIRACHA, CHONBURI 20230.  
**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : MAY 13, 2022  
**ANALYTICAL DATE** : MAY 13-20, 2022  
**REPORT NO.** : 2022-U037907  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0001 - T22AI980-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			สถานีวิจัยเกษตรธรรมชาติ		
			* T22AI980-0001	** T22AI980-0002	*** T22AI980-0003
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.034	0.045	0.022
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.016	0.035	0.011
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.  
\* : SAMPLING FROM 10:30 HOUR ON MAY 5, 2022 TO 10:30 HOUR ON MAY 6, 2022.  
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\*\*\* : SAMPLING FROM 10:30 HOUR ON MAY 7, 2022 TO 10:30 HOUR ON MAY 8, 2022.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

JUNE 6, 2022





## ANALYSIS REPORT

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**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : MAY 13, 2022  
**ANALYTICAL DATE** : MAY 13-20, 2022  
**REPORT NO.** : 2022-U037909  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0004 - T22AI980-0007

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			สถานีวิจัยเกษตรธรรมชาติ			
			* T22AI980-0004	** T22AI980-0005	*** T22AI980-0006	**** T22AI980-0007
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.025	0.037	0.025	0.038
PARTICULATE MATTER (≤ 10 μm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.015	0.020	0.014	0.025
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE	COMPLETE

### REMARK

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\*\*\*\* : SAMPLING FROM 10:30 HOUR ON MAY 11, 2022 TO 10:30 HOUR ON MAY 12, 2022.

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**CUSTOMER NAME** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
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**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARAN TUMSA-AT  
**RECEIVED DATE** : MAY 13, 2022  
**ANALYTICAL DATE** : MAY 13-20, 2022  
**REPORT NO.** : 2022-U037913  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0008 - T22AI980-0010

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านฉางอุดม		
			* T22AI980-0008	** T22AI980-0009	*** T22AI980-0010
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.068	0.080	0.031
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.046	0.030	0.015
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

### REMARK

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## ANALYSIS REPORT

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**ADDRESS** : 555/2 ENERGY COMPLEX BUILDING B, 14 TH FLOOR, VIBHAVADI-RANGSIT ROAD CHATUCHAK CHATUCHAK BANGKOK 10900  
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**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \* \*\* \*\*\* \*\*\*\*  
**SAMPLING TIME** : \* \*\* \*\*\* \*\*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : MAY 13, 2022  
**ANALYTICAL DATE** : MAY 13-20, 2022  
**REPORT NO.** : 2022-U037914  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0011 - T22AI980-0014

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บ้านฉางอุตสาหกรรม			
			* T22AI980-0011	** T22AI980-0012	*** T22AI980-0013	**** T22AI980-0014
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.039	0.038	0.023	0.026
PARTICULATE MATTER (≤ 10 μm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.025	0.018	0.013	0.011
SAMPLE CONDITION			COMPLETE	COMPLETE	COMPLETE	COMPLETE

### REMARK

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**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : MAY 13, 2022  
**ANALYTICAL DATE** : MAY 13-20, 2022  
**REPORT NO.** : 2022-U037915  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0015 - T22AI980-0017

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			มาตรฐาน		
			* T22AI980-0015	** T22AI980-0016	*** T22AI980-0017
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.064	0.068	0.033
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.022	0.042	0.022
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

### REMARK

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**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \* , \*\* , \*\*\* , \*\*\*\*  
**SAMPLING TIME** : \* , \*\* , \*\*\* , \*\*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : MAY 13, 2022  
**ANALYTICAL DATE** : MAY 13-20, 2022  
**REPORT NO.** : 2022-U037916  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0018 - T22AI980-0021

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บ้านเลขที่			
			* T22AI980-0018	** T22AI980-0019	*** T22AI980-0020	**** T22AI980-0021
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.031	0.040	0.037	0.040
PARTICULATE MATTER (≤ 10 μm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.021	0.027	0.026	0.028
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE	COMPLETE

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
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## ANALYSIS REPORT

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**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : MAY 13, 2022  
**ANALYTICAL DATE** : MAY 13-20, 2022  
**REPORT NO.** : 2022-U037917  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0022 - T22AI980-0024

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บ้านทุ่งเตควัว		
			* T22AI980-0022	** T22AI980-0023	*** T22AI980-0024
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.093	0.125	0.081
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.047	0.061	0.039
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
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## ANALYSIS REPORT

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**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*, \*\*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : MAY 13, 2022  
**ANALYTICAL DATE** : MAY 13-20, 2022  
**REPORT NO.** : 2022-U037918  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0025 - T22AI980-0028

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บ้านทุ่งเตลรัว			
			* T22AI980-0025	** T22AI980-0026	*** T22AI980-0027	**** T22AI980-0028
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.140	0.060	0.078	0.071
PARTICULATE MATTER (≤ 10 μm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.029	0.024	0.032	0.030
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE	COMPLETE

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
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**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \*, \*\*, \*\*\*  
**SAMPLING TIME** : \*, \*\*, \*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : MAY 13, 2022  
**ANALYTICAL DATE** : MAY 13-20, 2022  
**REPORT NO.** : 2022-U037919  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0029 - T22AI980-0031

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT		
			บริเวณโครงการ GPSC		
			* T22AI980-0029	** T22AI980-0030	*** T22AI980-0031
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.112	0.098	0.043
PARTICULATE MATTER (≤ 10 µm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.066	0.050	0.029
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE

### REMARK

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**SAMPLE TYPE** : AMBIENT  
**SAMPLING DATE** : \* , \*\* , \*\*\* , \*\*\*\*  
**SAMPLING TIME** : \* , \*\* , \*\*\* , \*\*\*\*  
**SAMPLING BY** : MR SIRAPAT JONGPHADUNGKIET  
**ANALYZED BY** : MISS JETJARIN TUMSA-AT  
**RECEIVED DATE** : MAY 13, 2022  
**ANALYTICAL DATE** : MAY 13-20, 2022  
**REPORT NO.** : 2022-U037920  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0032 - T22AI980-0035

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT			
			บริเวณโครงการ GPSC			
			* T22AI980-0032	** T22AI980-0033	*** T22AI980-0034	**** T22AI980-0035
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.045	0.040	0.056	0.056
PARTICULATE MATTER (≤ 10 μm)	mg/m <sup>3</sup>	GRAVIMETRIC (HIGH VOLUME METHOD)	0.029	0.024	0.036	0.030
<b>SAMPLE CONDITION</b>			COMPLETE	COMPLETE	COMPLETE	COMPLETE

### REMARK

TSP, PM10 : REFERENCE CONDITION IS 25 DEGREE CELSIUS AT 1 ATMOSPHERE.  
TSP : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX B.  
PM10 : US EPA, CODE OF FEDERAL REGULATION SEARCH RESULTS, 40 CFR-CHAPTER I PART 50, APPENDIX J.  
\* : SAMPLING FROM 09:00 HOUR ON MAY 8, 2022 TO 09:00 HOUR ON MAY 9, 2022.  
\*\* : SAMPLING FROM 09:00 HOUR ON MAY 9, 2022 TO 09:00 HOUR ON MAY 10, 2022.  
\*\*\* : SAMPLING FROM 09:00 HOUR ON MAY 10, 2022 TO 09:00 HOUR ON MAY 11, 2022.  
\*\*\*\* : SAMPLING FROM 09:00 HOUR ON MAY 11, 2022 TO 09:00 HOUR ON MAY 12, 2022.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

JUNE 6, 2022



## 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** : สถานีวิจัยเกษตรธรรมชาติ  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : MAY 5-12, 2022  
**MEASURING DATE** : MAY 5-12, 2022 **ANALYTICAL DATE** : MAY 5-12, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U041091  
**MEASURING METHOD** : CHEMILUMINESCENCE **WORK NO.** : 2021-003478  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T22AI980-0001 - T22AI980-0007

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	สถานีวิจัยเกษตรธรรมชาติ		
	MAY 5-6, 2022 T22AI980-0001	MAY 6-7, 2022 T22AI980-0002	MAY 7-8, 2022 T22AI980-0003
08:00-09:00 HOUR	0.0281	0.0216	0.0277
09:00-10:00 HOUR	0.0281	0.0234	0.0250
10:00-11:00 HOUR	0.0269	0.0236	0.0224
11:00-12:00 HOUR	0.0252	0.0263	0.0198
12:00-13:00 HOUR	0.0284	0.0264	0.0196
13:00-14:00 HOUR	0.0301	0.0268	0.0209
14:00-15:00 HOUR	0.0257	0.0250	0.0212
15:00-16:00 HOUR	0.0280	0.0258	0.0212
16:00-17:00 HOUR	0.0242	0.0256	0.0241
17:00-18:00 HOUR	0.0320	0.0268	0.0253
18:00-19:00 HOUR	0.0300	0.0263	0.0274
19:00-20:00 HOUR	0.0226	0.0284	0.0264
20:00-21:00 HOUR	0.0246	0.0254	0.0262
21:00-22:00 HOUR	0.0294	0.0260	0.0246
22:00-23:00 HOUR	0.0282	0.0236	0.0236
23:00-00:00 HOUR	0.0309	0.0249	0.0221
00:00-01:00 HOUR	0.0258	0.0218	0.0220
01:00-02:00 HOUR	0.0306	0.0211	0.0199
02:00-03:00 HOUR	0.0273	0.0213	0.0198
03:00-04:00 HOUR	0.0288	0.0220	0.0194
04:00-05:00 HOUR	0.0301	0.0240	0.0206
05:00-06:00 HOUR	0.0275	0.0243	0.0217
06:00-07:00 HOUR	0.0295	0.0277	0.0230
07:00-08:00 HOUR	0.0314	0.0268	0.0249



TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	สถานีวิจัยเกษตรธรรมชาติ			
	MAY 8-9, 2022 T22AI980-0004	MAY 9-10, 2022 T22AI980-0005	MAY 10-11, 2022 T22AI980-0006	MAY 11-12, 2022 T22AI980-0007
08:00-09:00 HOUR	0.0252	0.0223	0.0235	0.0193
09:00-10:00 HOUR	0.0247	0.0204	0.0235	0.0199
10:00-11:00 HOUR	0.0235	0.0204	0.0233	0.0197
11:00-12:00 HOUR	0.0239	0.0220	0.0236	0.0205
12:00-13:00 HOUR	0.0250	0.0256	0.0231	0.0221
13:00-14:00 HOUR	0.0249	0.0284	0.0231	0.0223
14:00-15:00 HOUR	0.0245	0.0288	0.0237	0.0239
15:00-16:00 HOUR	0.0240	0.0264	0.0250	0.0226
16:00-17:00 HOUR	0.0241	0.0249	0.0250	0.0235
17:00-18:00 HOUR	0.0241	0.0229	0.0229	0.0230
18:00-19:00 HOUR	0.0240	0.0237	0.0223	0.0245
19:00-20:00 HOUR	0.0248	0.0248	0.0221	0.0247
20:00-21:00 HOUR	0.0265	0.0244	0.0226	0.0250
21:00-22:00 HOUR	0.0258	0.0247	0.0224	0.0242
22:00-23:00 HOUR	0.0252	0.0236	0.0214	0.0240
23:00-00:00 HOUR	0.0232	0.0259	0.0216	0.0226
00:00-01:00 HOUR	0.0216	0.0267	0.0211	0.0224
01:00-02:00 HOUR	0.0209	0.0274	0.0223	0.0234
02:00-03:00 HOUR	0.0211	0.0264	0.0215	0.0255
03:00-04:00 HOUR	0.0217	0.0271	0.0204	0.0262
04:00-05:00 HOUR	0.0207	0.0266	0.0188	0.0263
05:00-06:00 HOUR	0.0200	0.0256	0.0182	0.0251
06:00-07:00 HOUR	0.0213	0.0231	0.0186	0.0251
07:00-08:00 HOUR	0.0216	0.0230	0.0194	0.0231

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## 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** : บ้านฉางอุตสาหกรรม  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : MAY 5-12, 2022  
**MEASURING DATE** : MAY 5-12, 2022 **ANALYTICAL DATE** : MAY 5-12, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U041092  
**MEASURING METHOD** : CHEMILUMINESCENCE **WORK NO.** : 2021-003478  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T22AI980-0008 - T22AI980-0014

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	บ้านฉางอุตสาหกรรม		
	MAY 5-6, 2022 T22AI980-0008	MAY 6-7, 2022 T22AI980-0009	MAY 7-8, 2022 T22AI980-0010
08:00-09:00 HOUR	0.0150	0.0159	0.0211
09:00-10:00 HOUR	0.0145	0.0153	0.0184
10:00-11:00 HOUR	0.0139	0.0160	0.0163
11:00-12:00 HOUR	0.0155	0.0165	0.0150
12:00-13:00 HOUR	0.0181	0.0165	0.0175
13:00-14:00 HOUR	0.0179	0.0158	0.0188
14:00-15:00 HOUR	0.0156	0.0158	0.0185
15:00-16:00 HOUR	0.0155	0.0162	0.0185
16:00-17:00 HOUR	0.0192	0.0171	0.0172
17:00-18:00 HOUR	0.0155	0.0176	0.0173
18:00-19:00 HOUR	0.0188	0.0179	0.0168
19:00-20:00 HOUR	0.0158	0.0180	0.0161
20:00-21:00 HOUR	0.0159	0.0173	0.0169
21:00-22:00 HOUR	0.0173	0.0175	0.0159
22:00-23:00 HOUR	0.0164	0.0170	0.0167
23:00-00:00 HOUR	0.0204	0.0174	0.0158
00:00-01:00 HOUR	0.0174	0.0179	0.0150
01:00-02:00 HOUR	0.0183	0.0190	0.0155
02:00-03:00 HOUR	0.0207	0.0188	0.0159
03:00-04:00 HOUR	0.0166	0.0183	0.0181
04:00-05:00 HOUR	0.0182	0.0182	0.0190
05:00-06:00 HOUR	0.0166	0.0181	0.0208
06:00-07:00 HOUR	0.0157	0.0187	0.0207
07:00-08:00 HOUR	0.0196	0.0197	0.0211



TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	บ้านฉางอุตสาหกรรม			
	MAY 8-9, 2022 T22AI980-0011	MAY 9-10, 2022 T22AI980-0012	MAY 10-11, 2022 T22AI980-0013	MAY 11-12, 2022 T22AI980-0014
08:00-09:00 HOUR	0.0210	0.0324	0.0139	0.0228
09:00-10:00 HOUR	0.0214	0.0294	0.0105	0.0227
10:00-11:00 HOUR	0.0211	0.0252	0.0071	0.0216
11:00-12:00 HOUR	0.0210	0.0202	0.0064	0.0206
12:00-13:00 HOUR	0.0178	0.0157	0.0063	0.0185
13:00-14:00 HOUR	0.0144	0.0148	0.0078	0.0180
14:00-15:00 HOUR	0.0105	0.0139	0.0082	0.0169
15:00-16:00 HOUR	0.0109	0.0203	0.0091	0.0190
16:00-17:00 HOUR	0.0129	0.0238	0.0107	0.0186
17:00-18:00 HOUR	0.0148	0.0286	0.0123	0.0194
18:00-19:00 HOUR	0.0167	0.0261	0.0140	0.0177
19:00-20:00 HOUR	0.0166	0.0239	0.0160	0.0169
20:00-21:00 HOUR	0.0163	0.0248	0.0184	0.0151
21:00-22:00 HOUR	0.0161	0.0227	0.0217	0.0147
22:00-23:00 HOUR	0.0169	0.0229	0.0239	0.0150
23:00-00:00 HOUR	0.0170	0.0208	0.0251	0.0167
00:00-01:00 HOUR	0.0172	0.0206	0.0267	0.0193
01:00-02:00 HOUR	0.0183	0.0207	0.0277	0.0222
02:00-03:00 HOUR	0.0223	0.0206	0.0308	0.0223
03:00-04:00 HOUR	0.0247	0.0220	0.0293	0.0241
04:00-05:00 HOUR	0.0266	0.0218	0.0292	0.0250
05:00-06:00 HOUR	0.0281	0.0212	0.0270	0.0263
06:00-07:00 HOUR	0.0318	0.0194	0.0258	0.0257
07:00-08:00 HOUR	0.0338	0.0171	0.0238	0.0234

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## 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** : บ้านเขาพญา  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : MAY 5-12, 2022  
**MEASURING DATE** : MAY 5-12, 2022 **ANALYTICAL DATE** : MAY 5-12, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U041093  
**MEASURING METHOD** : CHEMILUMINESCENCE **WORK NO.** : 2021-003478  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T22AI980-0015 - T22AI980-0021

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	บ้านเขาพญา		
	MAY 5-6, 2022 T22AI980-0015	MAY 6-7, 2022 T22AI980-0016	MAY 7-8, 2022 T22AI980-0017
08:00-09:00 HOUR	0.0237	0.0230	0.0279
09:00-10:00 HOUR	0.0279	0.0234	0.0288
10:00-11:00 HOUR	0.0234	0.0238	0.0282
11:00-12:00 HOUR	0.0250	0.0233	0.0291
12:00-13:00 HOUR	0.0239	0.0229	0.0275
13:00-14:00 HOUR	0.0282	0.0212	0.0270
14:00-15:00 HOUR	0.0287	0.0212	0.0250
15:00-16:00 HOUR	0.0199	0.0211	0.0259
16:00-17:00 HOUR	0.0226	0.0221	0.0273
17:00-18:00 HOUR	0.0236	0.0239	0.0279
18:00-19:00 HOUR	0.0242	0.0237	0.0299
19:00-20:00 HOUR	0.0267	0.0255	0.0289
20:00-21:00 HOUR	0.0250	0.0274	0.0307
21:00-22:00 HOUR	0.0275	0.0306	0.0297
22:00-23:00 HOUR	0.0281	0.0320	0.0300
23:00-00:00 HOUR	0.0246	0.0325	0.0281
00:00-01:00 HOUR	0.0226	0.0342	0.0297
01:00-02:00 HOUR	0.0282	0.0350	0.0293
02:00-03:00 HOUR	0.0227	0.0358	0.0289
03:00-04:00 HOUR	0.0269	0.0340	0.0276
04:00-05:00 HOUR	0.0235	0.0316	0.0269
05:00-06:00 HOUR	0.0273	0.0287	0.0287
06:00-07:00 HOUR	0.0231	0.0270	0.0283
07:00-08:00 HOUR	0.0236	0.0274	0.0274





TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	นาฬิกา			
	MAY 8-9, 2022 T22AI980-0018	MAY 9-10, 2022 T22AI980-0019	MAY 10-11, 2022 T22AI980-0020	MAY 11-12, 2022 T22AI980-0021
08:00-09:00 HOUR	0.0252	0.0349	0.0259	0.0280
09:00-10:00 HOUR	0.0228	0.0322	0.0283	0.0272
10:00-11:00 HOUR	0.0247	0.0318	0.0315	0.0247
11:00-12:00 HOUR	0.0262	0.0301	0.0316	0.0263
12:00-13:00 HOUR	0.0296	0.0312	0.0341	0.0272
13:00-14:00 HOUR	0.0282	0.0305	0.0331	0.0298
14:00-15:00 HOUR	0.0283	0.0318	0.0317	0.0309
15:00-16:00 HOUR	0.0279	0.0297	0.0291	0.0308
16:00-17:00 HOUR	0.0319	0.0274	0.0292	0.0287
17:00-18:00 HOUR	0.0327	0.0260	0.0293	0.0258
18:00-19:00 HOUR	0.0328	0.0262	0.0265	0.0265
19:00-20:00 HOUR	0.0327	0.0277	0.0246	0.0296
20:00-21:00 HOUR	0.0332	0.0280	0.0244	0.0294
21:00-22:00 HOUR	0.0336	0.0285	0.0251	0.0295
22:00-23:00 HOUR	0.0311	0.0304	0.0253	0.0292
23:00-00:00 HOUR	0.0329	0.0315	0.0268	0.0301
00:00-01:00 HOUR	0.0334	0.0306	0.0274	0.0306
01:00-02:00 HOUR	0.0339	0.0267	0.0273	0.0290
02:00-03:00 HOUR	0.0332	0.0243	0.0256	0.0297
03:00-04:00 HOUR	0.0343	0.0234	0.0270	0.0293
04:00-05:00 HOUR	0.0373	0.0233	0.0271	0.0315
05:00-06:00 HOUR	0.0378	0.0241	0.0288	0.0312
06:00-07:00 HOUR	0.0382	0.0241	0.0279	0.0322
07:00-08:00 HOUR	0.0367	0.0247	0.0292	0.0328

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## 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** : บ้านทุ่งเทครัว  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : MAY 5-12, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : CHEMILUMINESCENCE  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : MAY 5-12, 2022  
**ANALYTICAL DATE** : MAY 5-12, 2022  
**REPORT NO.** : 2022-U041094  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0022 - T22AI980-0028

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	บ้านทุ่งเทครัว		
	MAY 5-6, 2022 T22AI980-0022	MAY 6-7, 2022 T22AI980-0023	MAY 7-8, 2022 T22AI980-0024
08:00-09:00 HOUR	0.0281	0.0291	0.0287
09:00-10:00 HOUR	0.0287	0.0289	0.0290
10:00-11:00 HOUR	0.0276	0.0294	0.0284
11:00-12:00 HOUR	0.0275	0.0273	0.0274
12:00-13:00 HOUR	0.0293	0.0268	0.0282
13:00-14:00 HOUR	0.0274	0.0279	0.0281
14:00-15:00 HOUR	0.0276	0.0278	0.0271
15:00-16:00 HOUR	0.0285	0.0279	0.0271
16:00-17:00 HOUR	0.0279	0.0281	0.0281
17:00-18:00 HOUR	0.0281	0.0288	0.0284
18:00-19:00 HOUR	0.0291	0.0292	0.0271
19:00-20:00 HOUR	0.0272	0.0282	0.0264
20:00-21:00 HOUR	0.0260	0.0265	0.0259
21:00-22:00 HOUR	0.0251	0.0262	0.0241
22:00-23:00 HOUR	0.0236	0.0241	0.0233
23:00-00:00 HOUR	0.0230	0.0223	0.0247
00:00-01:00 HOUR	0.0228	0.0225	0.0244
01:00-02:00 HOUR	0.0224	0.0206	0.0238
02:00-03:00 HOUR	0.0216	0.0222	0.0211
03:00-04:00 HOUR	0.0230	0.0249	0.0241
04:00-05:00 HOUR	0.0245	0.0244	0.0242
05:00-06:00 HOUR	0.0256	0.0259	0.0257
06:00-07:00 HOUR	0.0265	0.0266	0.0264
07:00-08:00 HOUR	0.0267	0.0296	0.0282





TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	บ้านทุ่งเต๋ว			
	MAY 8-9, 2022 T22AI980-0025	MAY 9-10, 2022 T22AI980-0026	MAY 10-11, 2022 T22AI980-0027	MAY 11-12, 2022 T22AI980-0028
08:00-09:00 HOUR	0.0288	0.0286	0.0283	0.0305
09:00-10:00 HOUR	0.0292	0.0288	0.0279	0.0293
10:00-11:00 HOUR	0.0269	0.0273	0.0269	0.0298
11:00-12:00 HOUR	0.0273	0.0294	0.0275	0.0292
12:00-13:00 HOUR	0.0292	0.0290	0.0268	0.0284
13:00-14:00 HOUR	0.0289	0.0284	0.0276	0.0275
14:00-15:00 HOUR	0.0288	0.0300	0.0291	0.0284
15:00-16:00 HOUR	0.0283	0.0290	0.0299	0.0291
16:00-17:00 HOUR	0.0276	0.0294	0.0294	0.0295
17:00-18:00 HOUR	0.0272	0.0270	0.0272	0.0285
18:00-19:00 HOUR	0.0279	0.0285	0.0286	0.0271
19:00-20:00 HOUR	0.0257	0.0283	0.0283	0.0259
20:00-21:00 HOUR	0.0250	0.0261	0.0261	0.0255
21:00-22:00 HOUR	0.0232	0.0245	0.0248	0.0243
22:00-23:00 HOUR	0.0243	0.0222	0.0236	0.0233
23:00-00:00 HOUR	0.0249	0.0251	0.0217	0.0239
00:00-01:00 HOUR	0.0224	0.0259	0.0258	0.0248
01:00-02:00 HOUR	0.0232	0.0229	0.0243	0.0234
02:00-03:00 HOUR	0.0213	0.0247	0.0251	0.0225
03:00-04:00 HOUR	0.0241	0.0258	0.0226	0.0244
04:00-05:00 HOUR	0.0243	0.0257	0.0250	0.0248
05:00-06:00 HOUR	0.0270	0.0261	0.0252	0.0270
06:00-07:00 HOUR	0.0296	0.0271	0.0262	0.0281
07:00-08:00 HOUR	0.0303	0.0293	0.0295	0.0290

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## 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** : บริเวณพื้นที่โครงการ GPSC  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : MAY 5-12, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : CHEMILUMINESCENCE  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : MAY 5-12, 2022  
**ANALYTICAL DATE** : MAY 5-12, 2022  
**REPORT NO.** : 2022-U041095  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0029 - T22AI980-0035

TIME *	RESULT (ppm)		
	NITROGEN DIOXIDE		
	บริเวณพื้นที่โครงการ GPSC		
	MAY 5-6, 2022 T22AI980-0029	MAY 6-7, 2022 T22AI980-0030	MAY 7-8, 2022 T22AI980-0031
08:00-09:00 HOUR	0.0280	0.0258	0.0274
09:00-10:00 HOUR	0.0295	0.0273	0.0273
10:00-11:00 HOUR	0.0304	0.0293	0.0295
11:00-12:00 HOUR	0.0294	0.0281	0.0300
12:00-13:00 HOUR	0.0291	0.0270	0.0268
13:00-14:00 HOUR	0.0298	0.0292	0.0274
14:00-15:00 HOUR	0.0301	0.0303	0.0287
15:00-16:00 HOUR	0.0275	0.0285	0.0291
16:00-17:00 HOUR	0.0266	0.0290	0.0275
17:00-18:00 HOUR	0.0285	0.0280	0.0274
18:00-19:00 HOUR	0.0280	0.0294	0.0291
19:00-20:00 HOUR	0.0274	0.0286	0.0278
20:00-21:00 HOUR	0.0254	0.0282	0.0254
21:00-22:00 HOUR	0.0254	0.0277	0.0238
22:00-23:00 HOUR	0.0243	0.0265	0.0244
23:00-00:00 HOUR	0.0219	0.0233	0.0214
00:00-01:00 HOUR	0.0249	0.0211	0.0244
01:00-02:00 HOUR	0.0215	0.0218	0.0249
02:00-03:00 HOUR	0.0253	0.0241	0.0254
03:00-04:00 HOUR	0.0218	0.0228	0.0254
04:00-05:00 HOUR	0.0256	0.0221	0.0267
05:00-06:00 HOUR	0.0238	0.0247	0.0279
06:00-07:00 HOUR	0.0229	0.0251	0.0280
07:00-08:00 HOUR	0.0244	0.0252	0.0296



TIME *	RESULT (ppm)			
	NITROGEN DIOXIDE			
	บริเวณพื้นที่โครงการ GPSC			
	MAY 8-9, 2022 T22AI980-0032	MAY 9-10, 2022 T22AI980-0033	MAY 10-11, 2022 T22AI980-0034	MAY 11-12, 2022 T22AI980-0035
08:00-09:00 HOUR	0.0275	0.0274	0.0293	0.0296
09:00-10:00 HOUR	0.0275	0.0273	0.0284	0.0289
10:00-11:00 HOUR	0.0303	0.0273	0.0293	0.0298
11:00-12:00 HOUR	0.0291	0.0293	0.0276	0.0269
12:00-13:00 HOUR	0.0284	0.0294	0.0302	0.0286
13:00-14:00 HOUR	0.0297	0.0276	0.0288	0.0279
14:00-15:00 HOUR	0.0282	0.0280	0.0285	0.0285
15:00-16:00 HOUR	0.0276	0.0272	0.0266	0.0280
16:00-17:00 HOUR	0.0291	0.0300	0.0289	0.0303
17:00-18:00 HOUR	0.0286	0.0293	0.0299	0.0296
18:00-19:00 HOUR	0.0273	0.0277	0.0271	0.0277
19:00-20:00 HOUR	0.0263	0.0277	0.0262	0.0276
20:00-21:00 HOUR	0.0261	0.0276	0.0252	0.0270
21:00-22:00 HOUR	0.0254	0.0287	0.0244	0.0226
22:00-23:00 HOUR	0.0244	0.0283	0.0242	0.0252
23:00-00:00 HOUR	0.0220	0.0245	0.0249	0.0246
00:00-01:00 HOUR	0.0256	0.0265	0.0258	0.0212
01:00-02:00 HOUR	0.0247	0.0266	0.0265	0.0212
02:00-03:00 HOUR	0.0256	0.0239	0.0224	0.0217
03:00-04:00 HOUR	0.0251	0.0224	0.0231	0.0229
04:00-05:00 HOUR	0.0261	0.0265	0.0244	0.0231
05:00-06:00 HOUR	0.0215	0.0281	0.0269	0.0255
06:00-07:00 HOUR	0.0236	0.0279	0.0280	0.0277
07:00-08:00 HOUR	0.0255	0.0271	0.0273	0.0293

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## 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** : สถานีวิจัยเกษตรธรรมชาติ  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : MAY 5-12, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : UV FLUORESCENCE  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : MAY 5-12, 2022  
**ANALYTICAL DATE** : MAY 5-12, 2022  
**REPORT NO.** : 2022-U041096  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0001 - T22AI980-0007

เวลา *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	สถานีวิจัยเกษตรธรรมชาติ		
	MAY 5-6, 2022 T22AI980-0001	MAY 6-7, 2022 T22AI980-0002	MAY 7-8, 2022 T22AI980-0003
08:00-09:00 HOUR	0.0026	0.0021	0.0023
09:00-10:00 HOUR	0.0026	0.0021	0.0026
10:00-11:00 HOUR	0.0024	0.0021	0.0028
11:00-12:00 HOUR	0.0026	0.0020	0.0029
12:00-13:00 HOUR	0.0029	0.0021	0.0029
13:00-14:00 HOUR	0.0026	0.0020	0.0029
14:00-15:00 HOUR	0.0024	0.0021	0.0031
15:00-16:00 HOUR	0.0028	0.0020	0.0031
16:00-17:00 HOUR	0.0025	0.0018	0.0027
17:00-18:00 HOUR	0.0028	0.0017	0.0025
18:00-19:00 HOUR	0.0025	0.0018	0.0020
19:00-20:00 HOUR	0.0028	0.0018	0.0020
20:00-21:00 HOUR	0.0026	0.0019	0.0020
21:00-22:00 HOUR	0.0025	0.0017	0.0020
22:00-23:00 HOUR	0.0025	0.0018	0.0020
23:00-00:00 HOUR	0.0024	0.0020	0.0018
00:00-01:00 HOUR	0.0027	0.0023	0.0019
01:00-02:00 HOUR	0.0028	0.0022	0.0019
02:00-03:00 HOUR	0.0026	0.0020	0.0021
03:00-04:00 HOUR	0.0023	0.0018	0.0021
04:00-05:00 HOUR	0.0024	0.0018	0.0022
05:00-06:00 HOUR	0.0025	0.0019	0.0020
06:00-07:00 HOUR	0.0023	0.0021	0.0021
07:00-08:00 HOUR	0.0022	0.0023	0.0021
AVERAGE 24 HOUR	0.0026	0.0020	0.0023



เวลา *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	สถานีวิจัยเกษตรศรีราชา			
	MAY 8-9, 2022 T22AI980-0004	MAY 9-10, 2022 T22AI980-0005	MAY 10-11, 2022 T22AI980-0006	MAY 11-12, 2022 T22AI980-0007
08:00-09:00 HOUR	0.0022	0.0017	0.0032	0.0020
09:00-10:00 HOUR	0.0021	0.0017	0.0033	0.0021
10:00-11:00 HOUR	0.0021	0.0020	0.0031	0.0021
11:00-12:00 HOUR	0.0024	0.0023	0.0029	0.0020
12:00-13:00 HOUR	0.0025	0.0025	0.0028	0.0019
13:00-14:00 HOUR	0.0028	0.0024	0.0025	0.0019
14:00-15:00 HOUR	0.0028	0.0025	0.0022	0.0022
15:00-16:00 HOUR	0.0027	0.0026	0.0022	0.0023
16:00-17:00 HOUR	0.0026	0.0030	0.0022	0.0024
17:00-18:00 HOUR	0.0025	0.0030	0.0021	0.0023
18:00-19:00 HOUR	0.0028	0.0031	0.0020	0.0022
19:00-20:00 HOUR	0.0028	0.0031	0.0021	0.0020
20:00-21:00 HOUR	0.0029	0.0033	0.0021	0.0017
21:00-22:00 HOUR	0.0028	0.0033	0.0020	0.0016
22:00-23:00 HOUR	0.0025	0.0032	0.0019	0.0019
23:00-00:00 HOUR	0.0023	0.0031	0.0021	0.0024
00:00-01:00 HOUR	0.0022	0.0032	0.0021	0.0030
01:00-02:00 HOUR	0.0020	0.0031	0.0019	0.0030
02:00-03:00 HOUR	0.0020	0.0032	0.0019	0.0029
03:00-04:00 HOUR	0.0018	0.0029	0.0019	0.0028
04:00-05:00 HOUR	0.0018	0.0030	0.0019	0.0031
05:00-06:00 HOUR	0.0018	0.0027	0.0018	0.0032
06:00-07:00 HOUR	0.0018	0.0027	0.0018	0.0031
07:00-08:00 HOUR	0.0018	0.0028	0.0020	0.0031
AVERAGE 24 HOUR	0.0023	0.0028	0.0023	0.0024

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## 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** : บ้านอ่าวอุดม  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : MAY 5-12, 2022  
**MEASURING DATE** : MAY 5-12, 2022 **ANALYTICAL DATE** : MAY 5-12, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U041097  
**MEASURING METHOD** : UV FLUORESCENCE **WORK NO.** : 2021-003478  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T22AI980-0008 - T22AI980-0014

เวลา *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	บ้านอ่าวอุดม		
	MAY 5-6, 2022 T22AI980-0008	MAY 6-7, 2022 T22AI980-0009	MAY 7-8, 2022 T22AI980-0010
08:00-09:00 HOUR	0.0035	0.0019	0.0024
09:00-10:00 HOUR	0.0032	0.0020	0.0020
10:00-11:00 HOUR	0.0038	0.0019	0.0022
11:00-12:00 HOUR	0.0032	0.0020	0.0023
12:00-13:00 HOUR	0.0034	0.0020	0.0027
13:00-14:00 HOUR	0.0033	0.0024	0.0028
14:00-15:00 HOUR	0.0032	0.0025	0.0028
15:00-16:00 HOUR	0.0039	0.0025	0.0026
16:00-17:00 HOUR	0.0035	0.0021	0.0024
17:00-18:00 HOUR	0.0039	0.0019	0.0025
18:00-19:00 HOUR	0.0037	0.0019	0.0023
19:00-20:00 HOUR	0.0035	0.0021	0.0023
20:00-21:00 HOUR	0.0028	0.0025	0.0021
21:00-22:00 HOUR	0.0028	0.0027	0.0021
22:00-23:00 HOUR	0.0026	0.0033	0.0022
23:00-00:00 HOUR	0.0024	0.0034	0.0025
00:00-01:00 HOUR	0.0029	0.0039	0.0031
01:00-02:00 HOUR	0.0023	0.0039	0.0039
02:00-03:00 HOUR	0.0028	0.0041	0.0044
03:00-04:00 HOUR	0.0029	0.0037	0.0044
04:00-05:00 HOUR	0.0026	0.0035	0.0045
05:00-06:00 HOUR	0.0027	0.0032	0.0042
06:00-07:00 HOUR	0.0025	0.0032	0.0039
07:00-08:00 HOUR	0.0023	0.0026	0.0031
AVERAGE 24 HOUR	0.0031	0.0027	0.0029





เวลา *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	มาตรฐานอุตสาหกรรม			
	MAY 8-9, 2022 T22AI980-0011	MAY 9-10, 2022 T22AI980-0012	MAY 10-11, 2022 T22AI980-0013	MAY 11-12, 2022 T22AI980-0014
08:00-09:00 HOUR	0.0031	0.0029	0.0021	0.0023
09:00-10:00 HOUR	0.0026	0.0028	0.0020	0.0023
10:00-11:00 HOUR	0.0025	0.0026	0.0019	0.0021
11:00-12:00 HOUR	0.0020	0.0027	0.0019	0.0018
12:00-13:00 HOUR	0.0019	0.0028	0.0022	0.0021
13:00-14:00 HOUR	0.0016	0.0028	0.0027	0.0028
14:00-15:00 HOUR	0.0017	0.0035	0.0030	0.0035
15:00-16:00 HOUR	0.0017	0.0040	0.0032	0.0041
16:00-17:00 HOUR	0.0018	0.0045	0.0033	0.0046
17:00-18:00 HOUR	0.0019	0.0045	0.0037	0.0048
18:00-19:00 HOUR	0.0018	0.0040	0.0042	0.0050
19:00-20:00 HOUR	0.0019	0.0036	0.0046	0.0049
20:00-21:00 HOUR	0.0018	0.0029	0.0051	0.0052
21:00-22:00 HOUR	0.0020	0.0028	0.0052	0.0045
22:00-23:00 HOUR	0.0019	0.0030	0.0052	0.0037
23:00-00:00 HOUR	0.0021	0.0033	0.0047	0.0029
00:00-01:00 HOUR	0.0020	0.0038	0.0040	0.0027
01:00-02:00 HOUR	0.0023	0.0038	0.0036	0.0025
02:00-03:00 HOUR	0.0024	0.0038	0.0031	0.0024
03:00-04:00 HOUR	0.0028	0.0037	0.0029	0.0021
04:00-05:00 HOUR	0.0031	0.0039	0.0028	0.0021
05:00-06:00 HOUR	0.0033	0.0036	0.0028	0.0022
06:00-07:00 HOUR	0.0032	0.0030	0.0025	0.0022
07:00-08:00 HOUR	0.0032	0.0023	0.0023	0.0025
AVERAGE 24 HOUR	0.0023	0.0034	0.0033	0.0031

*Sila Banjongjairuk*

(MR SILA BANJONGJAIRUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## 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** : บ้านเลขที่  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : MAY 5-12, 2022  
**MEASURING DATE** : MAY 5-12, 2022 **ANALYTICAL DATE** : MAY 5-12, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U041098  
**MEASURING METHOD** : UV FLUORESCENCE **WORK NO.** : 2021-003478  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T22AI980-0015 - T22AI980-0021

เวลา *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	บ้านเลขที่		
	MAY 5-6, 2022 T22AI980-0015	MAY 6-7, 2022 T22AI980-0016	MAY 7-8, 2022 T22AI980-0017
08:00-09:00 HOUR	0.0044	0.0043	0.0036
09:00-10:00 HOUR	0.0045	0.0039	0.0031
10:00-11:00 HOUR	0.0043	0.0034	0.0026
11:00-12:00 HOUR	0.0049	0.0034	0.0027
12:00-13:00 HOUR	0.0041	0.0031	0.0026
13:00-14:00 HOUR	0.0044	0.0032	0.0028
14:00-15:00 HOUR	0.0046	0.0036	0.0027
15:00-16:00 HOUR	0.0043	0.0042	0.0030
16:00-17:00 HOUR	0.0043	0.0046	0.0034
17:00-18:00 HOUR	0.0046	0.0047	0.0038
18:00-19:00 HOUR	0.0041	0.0050	0.0042
19:00-20:00 HOUR	0.0047	0.0059	0.0044
20:00-21:00 HOUR	0.0042	0.0063	0.0048
21:00-22:00 HOUR	0.0044	0.0067	0.0049
22:00-23:00 HOUR	0.0035	0.0061	0.0050
23:00-00:00 HOUR	0.0037	0.0056	0.0052
00:00-01:00 HOUR	0.0034	0.0053	0.0054
01:00-02:00 HOUR	0.0037	0.0052	0.0054
02:00-03:00 HOUR	0.0038	0.0052	0.0052
03:00-04:00 HOUR	0.0038	0.0049	0.0052
04:00-05:00 HOUR	0.0034	0.0047	0.0047
05:00-06:00 HOUR	0.0032	0.0040	0.0041
06:00-07:00 HOUR	0.0032	0.0038	0.0036
07:00-08:00 HOUR	0.0039	0.0037	0.0035
AVERAGE 24 HOUR	0.0041	0.0046	0.0040





เวลา *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	หน่วยวัด			
	MAY 8-9, 2022 T22AI980-0018	MAY 9-10, 2022 T22AI980-0019	MAY 10-11, 2022 T22AI980-0020	MAY 11-12, 2022 T22AI980-0021
08:00-09:00 HOUR	0.0037	0.0051	0.0038	0.0050
09:00-10:00 HOUR	0.0036	0.0052	0.0034	0.0045
10:00-11:00 HOUR	0.0041	0.0055	0.0028	0.0043
11:00-12:00 HOUR	0.0043	0.0051	0.0031	0.0039
12:00-13:00 HOUR	0.0049	0.0052	0.0031	0.0039
13:00-14:00 HOUR	0.0053	0.0049	0.0031	0.0036
14:00-15:00 HOUR	0.0055	0.0050	0.0028	0.0039
15:00-16:00 HOUR	0.0050	0.0044	0.0026	0.0040
16:00-17:00 HOUR	0.0046	0.0043	0.0032	0.0047
17:00-18:00 HOUR	0.0042	0.0043	0.0037	0.0047
18:00-19:00 HOUR	0.0044	0.0040	0.0040	0.0048
19:00-20:00 HOUR	0.0043	0.0038	0.0037	0.0049
20:00-21:00 HOUR	0.0041	0.0034	0.0035	0.0050
21:00-22:00 HOUR	0.0041	0.0035	0.0037	0.0050
22:00-23:00 HOUR	0.0041	0.0040	0.0037	0.0046
23:00-00:00 HOUR	0.0050	0.0047	0.0036	0.0044
00:00-01:00 HOUR	0.0054	0.0054	0.0034	0.0044
01:00-02:00 HOUR	0.0063	0.0054	0.0034	0.0044
02:00-03:00 HOUR	0.0067	0.0050	0.0036	0.0041
03:00-04:00 HOUR	0.0070	0.0049	0.0038	0.0035
04:00-05:00 HOUR	0.0066	0.0051	0.0038	0.0030
05:00-06:00 HOUR	0.0063	0.0055	0.0038	0.0030
06:00-07:00 HOUR	0.0059	0.0052	0.0042	0.0031
07:00-08:00 HOUR	0.0056	0.0048	0.0045	0.0032
AVERAGE 24 HOUR	0.0050	0.0047	0.0035	0.0042

*Sila Banjongjairuk*

(MR SILA BANJONGJAIRUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## 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** : บ้านทุ่งเทครัว  
**MEASURING TYPE** : AMBIENT (AIR) **RECEIVED DATE** : MAY 5-12, 2022  
**MEASURING DATE** : MAY 5-12, 2022 **ANALYTICAL DATE** : MAY 5-12, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U041099  
**MEASURING METHOD** : UV FLUORESCENCE **WORK NO.** : 2021-003478  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET **ANALYSIS NO.** : T22AI980-0022 - T22AI980-0028

เวลา *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	บ้านทุ่งเทครัว		
	MAY 5-6, 2022 T22AI980-0022	MAY 6-7, 2022 T22AI980-0023	MAY 7-8, 2022 T22AI980-0024
08:00-09:00 HOUR	0.0047	0.0041	0.0041
09:00-10:00 HOUR	0.0045	0.0044	0.0042
10:00-11:00 HOUR	0.0041	0.0045	0.0044
11:00-12:00 HOUR	0.0048	0.0043	0.0044
12:00-13:00 HOUR	0.0048	0.0044	0.0042
13:00-14:00 HOUR	0.0046	0.0049	0.0043
14:00-15:00 HOUR	0.0041	0.0041	0.0043
15:00-16:00 HOUR	0.0044	0.0044	0.0046
16:00-17:00 HOUR	0.0042	0.0046	0.0047
17:00-18:00 HOUR	0.0041	0.0045	0.0043
18:00-19:00 HOUR	0.0040	0.0041	0.0043
19:00-20:00 HOUR	0.0039	0.0040	0.0046
20:00-21:00 HOUR	0.0038	0.0039	0.0043
21:00-22:00 HOUR	0.0037	0.0038	0.0041
22:00-23:00 HOUR	0.0035	0.0036	0.0040
23:00-00:00 HOUR	0.0033	0.0032	0.0039
00:00-01:00 HOUR	0.0032	0.0034	0.0037
01:00-02:00 HOUR	0.0035	0.0036	0.0038
02:00-03:00 HOUR	0.0034	0.0037	0.0036
03:00-04:00 HOUR	0.0032	0.0037	0.0033
04:00-05:00 HOUR	0.0034	0.0037	0.0032
05:00-06:00 HOUR	0.0035	0.0039	0.0032
06:00-07:00 HOUR	0.0037	0.0039	0.0037
07:00-08:00 HOUR	0.0039	0.0040	0.0039
AVERAGE 24 HOUR	0.0039	0.0040	0.0040



เวลา *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	บ้านทุ่งเต๋อรั้ว			
	MAY 8-9, 2022 T22AI980-0025	MAY 9-10, 2022 T22AI980-0026	MAY 10-11, 2022 T22AI980-0027	MAY 11-12, 2022 T22AI980-0028
08:00-09:00 HOUR	0.0041	0.0041	0.0041	0.0043
09:00-10:00 HOUR	0.0042	0.0045	0.0046	0.0041
10:00-11:00 HOUR	0.0043	0.0047	0.0041	0.0042
11:00-12:00 HOUR	0.0042	0.0043	0.0046	0.0049
12:00-13:00 HOUR	0.0043	0.0046	0.0043	0.0048
13:00-14:00 HOUR	0.0043	0.0045	0.0043	0.0047
14:00-15:00 HOUR	0.0044	0.0042	0.0044	0.0049
15:00-16:00 HOUR	0.0048	0.0047	0.0046	0.0045
16:00-17:00 HOUR	0.0048	0.0045	0.0047	0.0046
17:00-18:00 HOUR	0.0048	0.0041	0.0046	0.0045
18:00-19:00 HOUR	0.0045	0.0043	0.0048	0.0042
19:00-20:00 HOUR	0.0044	0.0047	0.0049	0.0041
20:00-21:00 HOUR	0.0042	0.0042	0.0049	0.0039
21:00-22:00 HOUR	0.0041	0.0038	0.0042	0.0032
22:00-23:00 HOUR	0.0038	0.0034	0.0039	0.0038
23:00-00:00 HOUR	0.0037	0.0034	0.0036	0.0037
00:00-01:00 HOUR	0.0034	0.0039	0.0037	0.0032
01:00-02:00 HOUR	0.0037	0.0038	0.0035	0.0036
02:00-03:00 HOUR	0.0035	0.0039	0.0038	0.0038
03:00-04:00 HOUR	0.0032	0.0032	0.0039	0.0038
04:00-05:00 HOUR	0.0038	0.0035	0.0039	0.0035
05:00-06:00 HOUR	0.0037	0.0038	0.0040	0.0039
06:00-07:00 HOUR	0.0034	0.0039	0.0041	0.0041
07:00-08:00 HOUR	0.0039	0.0041	0.0042	0.0042
AVERAGE 24 HOUR	0.0041	0.0041	0.0042	0.0041

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## 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** : บริเวณพื้นที่โครงการ GPSC  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : MAY 5-12, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : UV FLUORESCENCE  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : MAY 5-12, 2022  
**ANALYTICAL DATE** : MAY 5-12, 2022  
**REPORT NO.** : 2022-U041100  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0029 - T22AI980-0035

เวลา *	RESULT (ppm)		
	SULPHUR DIOXIDE		
	บริเวณพื้นที่โครงการ GPSC		
	MAY 5-6, 2022 T22AI980-0029	MAY 6-7, 2022 T22AI980-0030	MAY 7-8, 2022 T22AI980-0031
08:00-09:00 HOUR	0.0052	0.0054	0.0059
09:00-10:00 HOUR	0.0052	0.0054	0.0053
10:00-11:00 HOUR	0.0056	0.0054	0.0055
11:00-12:00 HOUR	0.0058	0.0059	0.0058
12:00-13:00 HOUR	0.0057	0.0053	0.0057
13:00-14:00 HOUR	0.0056	0.0055	0.0055
14:00-15:00 HOUR	0.0059	0.0051	0.0058
15:00-16:00 HOUR	0.0058	0.0051	0.0058
16:00-17:00 HOUR	0.0057	0.0057	0.0056
17:00-18:00 HOUR	0.0056	0.0053	0.0052
18:00-19:00 HOUR	0.0059	0.0054	0.0059
19:00-20:00 HOUR	0.0057	0.0055	0.0059
20:00-21:00 HOUR	0.0059	0.0054	0.0054
21:00-22:00 HOUR	0.0053	0.0058	0.0051
22:00-23:00 HOUR	0.0046	0.0051	0.0048
23:00-00:00 HOUR	0.0046	0.0049	0.0048
00:00-01:00 HOUR	0.0043	0.0045	0.0046
01:00-02:00 HOUR	0.0043	0.0048	0.0048
02:00-03:00 HOUR	0.0049	0.0045	0.0043
03:00-04:00 HOUR	0.0052	0.0049	0.0042
04:00-05:00 HOUR	0.0054	0.0053	0.0044
05:00-06:00 HOUR	0.0056	0.0052	0.0047
06:00-07:00 HOUR	0.0057	0.0059	0.0049
07:00-08:00 HOUR	0.0055	0.0051	0.0051
AVERAGE 24 HOUR	0.0054	0.0053	0.0052



เวลา *	RESULT (ppm)			
	SULPHUR DIOXIDE			
	บริเวณพื้นที่โครงการ GPSC			
	MAY 8-9, 2022 T22AI980-0032	MAY 9-10, 2022 T22AI980-0033	MAY 10-11, 2022 T22AI980-0034	MAY 11-12, 2022 T22AI980-0035
08:00-09:00 HOUR	0.0052	0.0059	0.0052	0.0055
09:00-10:00 HOUR	0.0055	0.0057	0.0052	0.0053
10:00-11:00 HOUR	0.0059	0.0055	0.0052	0.0054
11:00-12:00 HOUR	0.0053	0.0055	0.0057	0.0051
12:00-13:00 HOUR	0.0054	0.0055	0.0059	0.0055
13:00-14:00 HOUR	0.0056	0.0051	0.0059	0.0053
14:00-15:00 HOUR	0.0059	0.0056	0.0059	0.0057
15:00-16:00 HOUR	0.0051	0.0051	0.0053	0.0057
16:00-17:00 HOUR	0.0052	0.0055	0.0052	0.0051
17:00-18:00 HOUR	0.0053	0.0059	0.0059	0.0051
18:00-19:00 HOUR	0.0052	0.0058	0.0051	0.0052
19:00-20:00 HOUR	0.0055	0.0053	0.0057	0.0057
20:00-21:00 HOUR	0.0052	0.0053	0.0056	0.0052
21:00-22:00 HOUR	0.0053	0.0055	0.0052	0.0048
22:00-23:00 HOUR	0.0053	0.0049	0.0053	0.0045
23:00-00:00 HOUR	0.0048	0.0044	0.0054	0.0047
00:00-01:00 HOUR	0.0045	0.0041	0.0052	0.0045
01:00-02:00 HOUR	0.0048	0.0048	0.0053	0.0049
02:00-03:00 HOUR	0.0041	0.0044	0.0048	0.0043
03:00-04:00 HOUR	0.0046	0.0045	0.0049	0.0049
04:00-05:00 HOUR	0.0045	0.0045	0.0051	0.0050
05:00-06:00 HOUR	0.0048	0.0047	0.0052	0.0051
06:00-07:00 HOUR	0.0052	0.0050	0.0053	0.0055
07:00-08:00 HOUR	0.0055	0.0051	0.0051	0.0055
AVERAGE 24 HOUR	0.0052	0.0052	0.0054	0.0051

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## 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** : บริเวณพื้นที่โครงการ GPSC  
**MEASURING TYPE** : AMBIENT (AIR)  
**MEASURING DATE** : MAY 5-12, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : WIND SPEED & WIND DIRECTION EQUIPMENT  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : MAY 5-12, 2022  
**ANALYTICAL DATE** : MAY 5-12, 2022  
**REPORT NO.** : 2022-U041104  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI980-0029 - T22AI980-0035

TIME *	RESULT (m/s)					
	บริเวณพื้นที่โครงการ GPSC					
	MAY 5-6, 2022 T22AI980-0029		MAY 6-7, 2022 T22AI980-0030		MAY 7-8, 2022 T22AI980-0031	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	2.9	SSE	0.9	E	2.2	ENE
09:00-10:00 HOUR	2.7	SSE	1.7	E	2.2	ENE
10:00-11:00 HOUR	2.7	S	1.6	S	1.2	ENE
11:00-12:00 HOUR	1.8	SSE	2.8	ESE	2.0	NNE
12:00-13:00 HOUR	0.9	SE	2.6	ESE	2.4	N
13:00-14:00 HOUR	1.6	S	0.9	ESE	2.9	NNE
14:00-15:00 HOUR	2.9	S	0.7	SE	2.7	NNE
15:00-16:00 HOUR	3.1	S	0.4	SE	2.3	E
16:00-17:00 HOUR	3.2	SSE	2.6	SE	2.1	ESE
17:00-18:00 HOUR	3.0	SE	1.2	E	2.7	SSE
18:00-19:00 HOUR	2.5	SSW	2.1	SSW	0.4	S
19:00-20:00 HOUR	0.3	S	2.8	ESE	1.4	ESE
20:00-21:00 HOUR	1.3	S	1.9	ESE	1.2	S
21:00-22:00 HOUR	1.8	ESE	0.8	SSE	3.1	ESE
22:00-23:00 HOUR	2.3	S	2.4	SSE	1.1	ESE
23:00-00:00 HOUR	1.2	SSE	0.9	S	1.9	ESE
00:00-01:00 HOUR	2.3	ESE	2.2	ESE	0.5	S
01:00-02:00 HOUR	1.9	SSE	1.7	ESE	2.8	S
02:00-03:00 HOUR	1.5	S	1.3	E	3.4	S
03:00-04:00 HOUR	1.9	SSE	1.9	ESE	2.0	SW
04:00-05:00 HOUR	2.6	S	2.1	E	2.5	W
05:00-06:00 HOUR	2.0	S	0.5	E	0.5	WNW
06:00-07:00 HOUR	1.4	ESE	0.7	NE	1.1	SW
07:00-08:00 HOUR	2.3	ESE	0.5	NE	1.6	SW





TIME *	RESULT (m/s)							
	บริเวณพื้นที่โครงการ GPSC							
	MAY 8-9, 2022		MAY 9-10, 2022		MAY 10-11, 2022		MAY 11-12, 2022	
	T22AI980-0032		T22AI980-0033		T22AI980-0034		T22AI980-0035	
	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION	WIND SPEED	WIND DIRECTION
08:00-09:00 HOUR	1.6	SSW	2.4	NW	1.2	SSW	2.6	W
09:00-10:00 HOUR	1.0	W	1.9	WNW	3.3	SW	0.9	SSW
10:00-11:00 HOUR	2.0	SSW	1.9	WNW	3.2	SW	0.9	WSW
11:00-12:00 HOUR	2.9	WSW	2.1	W	2.1	WSW	1.1	WSW
12:00-13:00 HOUR	0.8	W	2.4	WSW	1.0	SSW	1.7	SW
13:00-14:00 HOUR	1.3	SSW	2.9	WSW	0.5	W	2.9	W
14:00-15:00 HOUR	1.4	SW	2.5	SW	1.0	W	0.7	SSW
15:00-16:00 HOUR	3.0	SSW	0.9	W	3.2	WSW	1.2	WNW
16:00-17:00 HOUR	3.4	W	0.9	WNW	1.9	WSW	1.8	WNW
17:00-18:00 HOUR	0.5	NNW	3.2	WSW	1.8	W	2.0	SW
18:00-19:00 HOUR	0.5	WNW	0.4	WNW	1.7	WSW	0.4	W
19:00-20:00 HOUR	2.2	N	0.6	SW	3.4	SSW	3.3	W
20:00-21:00 HOUR	0.8	N	1.4	WSW	1.7	WNW	1.2	WSW
21:00-22:00 HOUR	2.8	WNW	1.3	SW	2.7	WNW	0.7	WSW
22:00-23:00 HOUR	3.4	NNW	3.3	SW	3.2	SSW	1.2	SW
23:00-00:00 HOUR	0.7	NW	1.8	WNW	2.4	SSW	0.5	SW
00:00-01:00 HOUR	1.3	NNW	2.8	SW	0.5	W	3.1	WSW
01:00-02:00 HOUR	1.4	NW	2.4	SW	3.4	SW	2.5	SSW
02:00-03:00 HOUR	2.2	NW	2.5	WNW	0.7	WSW	0.4	W
03:00-04:00 HOUR	2.2	NNW	1.2	WNW	3.1	W	2.7	WNW
04:00-05:00 HOUR	2.8	NW	2.4	WNW	0.5	W	3.0	SSW
05:00-06:00 HOUR	2.3	NNW	1.7	SW	2.0	W	2.1	WSW
06:00-07:00 HOUR	0.5	N	3.3	WSW	2.3	WSW	0.8	W
07:00-08:00 HOUR	0.6	WNW	0.8	WSW	1.5	SW	0.6	WSW

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## ภาคผนวก ก-2

ผลการติดตามตรวจสอบคุณภาพอากาศจากปล่อง





## 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** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : MAY 8, 2022  
**SAMPLING TIME** : 09:30-10:40 HOUR  
**SAMPLING BY** : MR PARINYA KLOMKLIAO ๖-145-๖-0039  
**ANALYZED BY** : MISS SUWAN KONGTHONG ๖-145-๖-0025

**RECEIVED DATE** : MAY 13, 2022  
**ANALYTICAL DATE** : MAY 13-19, 2022  
**REPORT NO.** : 2022-U038870  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AJ154-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			HRSGS-1 T22AJ154-0001	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	0.64	1.50
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)	31.4	73.5
<b>SAMPLE CONDITION</b>			COMPLETE	

**REMARK**

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

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
๖-145-๖-0011  
JUNE 6, 2022



## 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 SOURCE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**MEASURING TYPE** : STACK  
**MEASURING DATE** : MAY 8, 2022  
**MEASURING TIME** : 09:35-09:45 HOUR  
**MEASURING METHOD** : U.S. EPA METHOD 10  
**MEASURED BY** : MR PARINYA KLOMKLIAO ๓-145-๓-0039

**RECEIVED DATE** : MAY 8, 2022  
**ANALYTICAL DATE** : MAY 8, 2022  
**REPORT NO.** : 2022-U038871  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AJ154-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			HRSGS-1 T22AJ154-0001	
			ACTUAL OXYGEN	7% OXYGEN
CARBON MONOXIDE	ppm	PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 10)	73	171
<b>SAMPLE CONDITION</b>			COMPLETE	

**REMARK**

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
๓-145-๓-0021  
JUNE 6, 2022



## 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** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**SAMPLE TYPE** : STACK  
**SAMPLING DATE** : MAY 8, 2022  
**SAMPLING TIME** : 11:10-12:20 HOUR  
**SAMPLING BY** : MR PARINYA KLOMKLIAO ๖-145-๖-0039  
**ANALYZED BY** : MISS SUWAN KONGTHONG ๖-145-๖-0025

**RECEIVED DATE** : MAY 13, 2022  
**ANALYTICAL DATE** : MAY 13-19, 2022  
**REPORT NO.** : 2022-U038872  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AJ154-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			HRSGS-2 T22AJ154-0002	
			ACTUAL OXYGEN	7% OXYGEN
TOTAL SUSPENDED PARTICULATE	mg/m <sup>3</sup>	ISOKINETIC, GRAVIMETRIC METHOD (US EPA METHOD 5)	0.96	2.11
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)	21.0	46.0
<b>SAMPLE CONDITION</b>			COMPLETE	

REMARK

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

*Budsakorn ✓*

(MISS BUDSAKORN LERDPANUMAS)  
LABORATORY SUPERVISOR  
๖-145-๖-0011  
JUNE 6, 2022



## 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 SOURCE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**MEASURING TYPE** : STACK  
**MEASURING DATE** : MAY 8, 2022  
**MEASURING TIME** : 11:15-11:25 HOUR  
**MEASURING METHOD** : U.S. EPA METHOD 10  
**MEASURED BY** : MR PARINYA KLOMKLIAO ๓-145-๓-0039

**RECEIVED DATE** : MAY 8, 2022  
**ANALYTICAL DATE** : MAY 8, 2022  
**REPORT NO.** : 2022-U038873  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AJ154-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	
			HRSGS-2 T22AJ154-0002	
			ACTUAL OXYGEN	7% OXYGEN
CARBON MONOXIDE	ppm	PORTABLE ANALYZER, ELECTROCHEMICAL METHOD AT SITE (US EPA METHOD 10)	155	340
<b>SAMPLE CONDITION</b>			COMPLETE	

**REMARK**

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

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR  
๓-145-๓-0021  
JUNE 6, 2022



## ภาคผนวก ก-3

ผลการติดตามตรวจสอบคุณภาพอากาศ  
ที่ระบายออกจากปล่องแบบต่อเนื่อง (CEMs Data)



ม.ค.-22

Stack	SOx	NOx	PM
Unit	ppm	ppm	ppm
GPSC-HRSG-1	ND ( $\leq 1.3$ )/2.4	108.30/148	-
GPSC-HRSG-2	ND ( $\leq 1.3$ )/2.4	124.40/148	-

หมายเหตุ;

ก.พ.-22

Stack	SOx	NOx	PM
Unit	ppm	ppm	ppm
GPSC-HRSG-1	ND ( $\leq 1.3$ )/2.4	119.30/148	-
GPSC-HRSG-2	ND ( $\leq 1.3$ )/2.4	99.39/148	-

หมายเหตุ;



มี.ค.-22

Stack	SOx	NOx	PM
Unit	ppm	ppm	ppm
GPSC-HRSG-1	ND ( $\leq 1.3$ )/2.4	137.18/148	-
GPSC-HRSG-2	ND ( $\leq 1.3$ )/2.4	132.66/148	-

หมายเหตุ;

เม.ย.-22

Stack	SOx	NOx	PM
Unit	ppm	ppm	ppm
GPSC-HRSG-1	ND ( $\leq 1.3$ )/2.4	99.34/148	-
GPSC-HRSG-2	ND ( $\leq 1.3$ )/2.4	93.81/148	-

หมายเหตุ;

พ.ด.-22

Stack	SOx	NOx	PM
Unit	ppm	ppm	ppm
GPSC-HRSG-1	ND ( $\leq 1.3$ )/2.4	69.49/148	-
GPSC-HRSG-2	ND ( $\leq 1.3$ )/2.4	42.65/148	-

หมายเหตุ;

ถ.บ.-22

Stack	SOx	NOx	PM
Unit	ppm	ppm	ppm
GPSC-HRSG-1	ND ( $\leq 1.3$ )/2.4	SD/148	-
GPSC-HRSG-2	ND ( $\leq 1.3$ )/2.4	SD/148	-

**หมายเหตุ;** Reserve Shutdown

## ภาคผนวก ก-4

ผลการติดตามตรวจสอบระดับเสียงโดยทั่วไป



## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: MAY 5-12, 2022
<b>ADDRESS</b>	: 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: MAY 5-12, 2022
<b>CONTACT INFORMATION</b>	: TEL : 08 5314 3115 e-mail : kingkarn.kh@gpscgroup.com	<b>REPORT NO.</b>	: 2022-U041107
<b>MEASURING SOURCE</b>	: บ้านทุ่งเทครัว	<b>WORK NO.</b>	: 2021-003478
<b>MEASURING TYPE</b>	: AMBIENT (NOISE)	<b>ANALYSIS NO.</b>	: T22AI974-0001 - T22AI974-0007
<b>MEASURING DATE</b>	: MAY 5-12, 2022		
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: INTEGRATED SOUND LEVEL METER		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME*	RESULT dB(A)		
	บ้านทุ่งเทครัว		
	MAY 5-6, 2022		
	T22AI974-0001		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	63.4	78.2	56.7
08:00-09:00 HOUR	63.7	79.0	57.2
09:00-10:00 HOUR	58.0	79.7	55.7
10:00-11:00 HOUR	59.3	72.1	54.9
11:00-12:00 HOUR	62.2	74.3	55.8
12:00-13:00 HOUR	57.3	70.8	53.6
13:00-14:00 HOUR	61.1	81.6	54.8
14:00-15:00 HOUR	62.1	80.6	54.3
15:00-16:00 HOUR	57.1	75.3	52.8
16:00-17:00 HOUR	60.5	77.4	52.8
17:00-18:00 HOUR	57.4	76.9	53.6
18:00-19:00 HOUR	59.0	72.4	54.4
19:00-20:00 HOUR	58.8	73.1	53.0
20:00-21:00 HOUR	53.7	78.0	50.9
21:00-22:00 HOUR	51.3	60.4	50.5
22:00-23:00 HOUR	52.3	66.1	50.4
23:00-00:00 HOUR	51.7	64.3	50.9
00:00-01:00 HOUR	52.8	81.2	50.8
01:00-02:00 HOUR	51.9	65.6	50.4
02:00-03:00 HOUR	51.9	60.3	50.8
03:00-04:00 HOUR	54.9	63.8	51.4
04:00-05:00 HOUR	53.2	62.7	51.0
05:00-06:00 HOUR	52.8	65.2	50.9
06:00-07:00 HOUR	53.4	79.1	52.1
L <sub>Aeq</sub> 24 hours		58.5	
L <sub>Adn</sub>		61.3	



TIME*	RESULT dB(A)		
	บ้านทุ่งเตยรั้ว		
	MAY 6-7, 2022		
	T22AI974-0002		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	60.2	74.5	53.7
08:00-09:00 HOUR	60.1	76.4	55.2
09:00-10:00 HOUR	56.4	78.0	52.4
10:00-11:00 HOUR	53.3	70.6	51.3
11:00-12:00 HOUR	54.2	68.8	51.6
12:00-13:00 HOUR	61.6	79.7	54.4
13:00-14:00 HOUR	58.2	72.7	53.4
14:00-15:00 HOUR	57.3	76.8	53.0
15:00-16:00 HOUR	57.8	71.2	53.3
16:00-17:00 HOUR	58.0	79.6	53.6
17:00-18:00 HOUR	60.0	77.4	55.1
18:00-19:00 HOUR	55.5	69.0	53.0
19:00-20:00 HOUR	58.7	79.5	54.1
20:00-21:00 HOUR	59.1	75.3	53.7
21:00-22:00 HOUR	59.6	74.5	52.6
22:00-23:00 HOUR	58.3	70.8	52.2
23:00-00:00 HOUR	56.0	75.4	51.4
00:00-01:00 HOUR	52.0	62.5	50.6
01:00-02:00 HOUR	52.2	67.0	50.7
02:00-03:00 HOUR	51.8	73.7	50.4
03:00-04:00 HOUR	53.2	76.4	50.4
04:00-05:00 HOUR	51.9	72.0	50.7
05:00-06:00 HOUR	52.7	74.6	50.7
06:00-07:00 HOUR	51.5	66.0	50.6
L <sub>Aeq</sub> 24 hours		57.3	
L <sub>Adn</sub>		61.4	



TIME*	RESULT dB(A)		
	บ้านทุ่งเต๋อรั้ว		
	MAY 7-8, 2022		
	T22AI974-0003		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	53.2	76.2	50.6
08:00-09:00 HOUR	62.8	78.4	52.5
09:00-10:00 HOUR	59.8	78.4	53.2
10:00-11:00 HOUR	56.2	75.5	52.8
11:00-12:00 HOUR	60.4	80.6	53.7
12:00-13:00 HOUR	58.1	75.4	52.0
13:00-14:00 HOUR	54.0	73.4	51.4
14:00-15:00 HOUR	55.4	71.8	50.9
15:00-16:00 HOUR	54.2	65.4	52.5
16:00-17:00 HOUR	60.1	77.4	54.1
17:00-18:00 HOUR	59.8	83.7	53.5
18:00-19:00 HOUR	55.8	81.7	52.4
19:00-20:00 HOUR	58.6	74.6	52.5
20:00-21:00 HOUR	52.8	67.1	51.7
21:00-22:00 HOUR	53.0	70.0	51.7
22:00-23:00 HOUR	53.2	72.4	51.9
23:00-00:00 HOUR	52.6	71.7	51.5
00:00-01:00 HOUR	52.7	75.8	51.4
01:00-02:00 HOUR	52.8	75.0	51.2
02:00-03:00 HOUR	52.3	73.2	50.8
03:00-04:00 HOUR	54.9	69.1	52.6
04:00-05:00 HOUR	57.9	75.7	52.8
05:00-06:00 HOUR	54.8	70.0	52.6
06:00-07:00 HOUR	55.2	71.0	52.1
L <sub>Aeq</sub> 24 hours		57.0	
L <sub>Adn</sub>		61.6	

TIME*	RESULT dB(A)		
	บ้านทุ่งเทครัว		
	MAY 8-9, 2022		
	T22AI974-0004		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	60.3	80.1	53.2
08:00-09:00 HOUR	57.7	72.3	52.0
09:00-10:00 HOUR	58.4	77.4	52.1
10:00-11:00 HOUR	58.9	79.4	52.3
11:00-12:00 HOUR	55.8	67.5	51.0
12:00-13:00 HOUR	57.1	76.4	52.7
13:00-14:00 HOUR	58.1	74.4	53.0
14:00-15:00 HOUR	56.6	75.7	53.0
15:00-16:00 HOUR	56.4	73.3	52.9
16:00-17:00 HOUR	58.6	77.9	54.1
17:00-18:00 HOUR	58.7	76.7	55.3
18:00-19:00 HOUR	58.8	75.3	54.2
19:00-20:00 HOUR	62.8	79.9	54.8
20:00-21:00 HOUR	60.4	68.7	55.2
21:00-22:00 HOUR	57.6	74.9	53.3
22:00-23:00 HOUR	56.7	75.7	53.0
23:00-00:00 HOUR	58.2	73.0	53.7
00:00-01:00 HOUR	56.9	68.8	53.4
01:00-02:00 HOUR	53.9	65.7	52.5
02:00-03:00 HOUR	53.7	67.1	52.2
03:00-04:00 HOUR	52.8	62.4	51.9
04:00-05:00 HOUR	52.1	63.1	50.8
05:00-06:00 HOUR	52.4	58.9	51.4
06:00-07:00 HOUR	53.7	78.2	51.7
L <sub>Aeq</sub> 24 hours		57.7	
L <sub>Adn</sub>		62.2	

TIME*	RESULT dB(A)		
	บ้านทุ่งเทครัว		
	MAY 9-10, 2022		
	T22AI974-0005		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	52.4	60.5	51.5
08:00-09:00 HOUR	54.1	78.1	51.9
09:00-10:00 HOUR	60.1	84.3	53.2
10:00-11:00 HOUR	60.0	69.9	52.6
11:00-12:00 HOUR	56.1	69.4	53.4
12:00-13:00 HOUR	57.2	72.3	54.0
13:00-14:00 HOUR	60.9	79.0	53.7
14:00-15:00 HOUR	63.8	75.2	57.1
15:00-16:00 HOUR	64.2	77.8	57.2
16:00-17:00 HOUR	59.5	79.5	55.0
17:00-18:00 HOUR	61.4	85.9	55.6
18:00-19:00 HOUR	60.4	72.9	54.5
19:00-20:00 HOUR	59.7	75.0	54.2
20:00-21:00 HOUR	58.3	81.0	54.5
21:00-22:00 HOUR	58.7	72.7	54.6
22:00-23:00 HOUR	55.2	69.8	53.8
23:00-00:00 HOUR	55.6	65.8	54.1
00:00-01:00 HOUR	54.8	72.4	52.7
01:00-02:00 HOUR	53.0	65.2	51.7
02:00-03:00 HOUR	53.2	63.9	51.5
03:00-04:00 HOUR	52.6	64.9	51.5
04:00-05:00 HOUR	53.0	63.6	51.6
05:00-06:00 HOUR	52.8	65.9	51.2
06:00-07:00 HOUR	53.8	73.3	52.1
L <sub>Aeq</sub> 24 hours		58.6	
L <sub>Adn</sub>		61.9	

TIME*	RESULT dB(A)		
	บ้านทุ่งเทครัว		
	MAY 10-11, 2022		
	T22AI974-0006		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	55.1	62.9	52.9
08:00-09:00 HOUR	56.8	71.0	53.1
09:00-10:00 HOUR	58.2	73.1	53.4
10:00-11:00 HOUR	56.0	70.7	53.3
11:00-12:00 HOUR	55.7	72.2	53.2
12:00-13:00 HOUR	60.8	80.1	53.3
13:00-14:00 HOUR	61.3	81.1	55.0
14:00-15:00 HOUR	61.6	80.0	55.6
15:00-16:00 HOUR	58.0	81.9	53.8
16:00-17:00 HOUR	60.1	78.6	54.9
17:00-18:00 HOUR	62.4	79.3	55.4
18:00-19:00 HOUR	56.1	74.2	52.9
19:00-20:00 HOUR	56.2	75.5	53.0
20:00-21:00 HOUR	55.9	74.1	53.0
21:00-22:00 HOUR	55.1	71.0	52.3
22:00-23:00 HOUR	57.1	73.2	53.2
23:00-00:00 HOUR	54.3	72.8	52.1
00:00-01:00 HOUR	53.5	69.6	51.3
01:00-02:00 HOUR	53.9	70.0	51.3
02:00-03:00 HOUR	52.9	68.3	50.7
03:00-04:00 HOUR	52.7	67.4	50.8
04:00-05:00 HOUR	52.4	66.4	50.2
05:00-06:00 HOUR	54.5	63.9	51.1
06:00-07:00 HOUR	52.1	61.0	51.3
L <sub>Aeq</sub> 24 hours		57.5	
L <sub>Adn</sub>		61.5	

TIME*	RESULT dB(A)		
	บ้านทุ่งเทครัว		
	MAY 11-12, 2022		
	T22AI974-0007		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	53.4	74.6	52.3
08:00-09:00 HOUR	58.6	71.4	55.3
09:00-10:00 HOUR	59.1	81.3	55.4
10:00-11:00 HOUR	61.4	77.5	57.0
11:00-12:00 HOUR	61.7	75.0	57.6
12:00-13:00 HOUR	60.8	72.0	56.2
13:00-14:00 HOUR	61.2	79.5	57.5
14:00-15:00 HOUR	62.2	77.4	58.0
15:00-16:00 HOUR	61.3	75.3	55.7
16:00-17:00 HOUR	60.4	70.2	55.9
17:00-18:00 HOUR	60.0	72.7	54.8
18:00-19:00 HOUR	61.9	80.9	55.8
19:00-20:00 HOUR	55.6	73.1	52.9
20:00-21:00 HOUR	54.7	65.9	53.1
21:00-22:00 HOUR	56.1	69.3	53.8
22:00-23:00 HOUR	52.8	64.0	51.4
23:00-00:00 HOUR	52.5	62.6	51.6
00:00-01:00 HOUR	52.5	71.5	51.4
01:00-02:00 HOUR	52.2	72.3	50.7
02:00-03:00 HOUR	51.4	59.7	50.6
03:00-04:00 HOUR	51.6	60.5	51.0
04:00-05:00 HOUR	52.8	69.7	51.1
05:00-06:00 HOUR	52.0	65.6	50.9
06:00-07:00 HOUR	51.7	76.0	50.9
L <sub>Aeq</sub> 24 hours		58.3	
L <sub>Adn</sub>		60.9	

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## ANALYSIS REPORT

<b>CUSTOMER NAME</b>	: GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED	<b>RECEIVED DATE</b>	: MAY 5-12, 2022
<b>ADDRESS</b>	: 42/3 MOO 1, SUKHUMVIT ROAD KM. 124 THUNG SUKHLA SI RACHA CHON BURI 20230	<b>ANALYTICAL DATE</b>	: MAY 5-12, 2022
<b>CONTACT INFORMATION</b>	: TEL : 08 5314 3115 e-mail : kingkam.kh@gpscgroup.com	<b>REPORT NO.</b>	: 2022-U041108
<b>MEASURING SOURCE</b>	: จักรจักร GPSC	<b>WORK NO.</b>	: 2021-003478
<b>MEASURING TYPE</b>	: AMBIENT (NOISE)	<b>ANALYSIS NO.</b>	: T22AI974-0008 - T22AI974-0014
<b>MEASURING DATE</b>	: MAY 5-12, 2022		
<b>MEASURING TIME</b>	: *		
<b>MEASURING METHOD</b>	: INTEGRATED SOUND LEVEL METER		
<b>MEASURED BY</b>	: MR SIRAPAT JONGPHADUNGKIET		

TIME*	RESULT dB(A)		
	จักรจักร GPSC		
	MAY 5-6, 2022		
	T22AI974-0008		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	61.1	78.5	60.2
08:00-09:00 HOUR	61.1	72.9	60.0
09:00-10:00 HOUR	60.8	69.1	60.1
10:00-11:00 HOUR	61.1	67.7	60.4
11:00-12:00 HOUR	61.0	72.7	60.1
12:00-13:00 HOUR	60.8	71.2	59.8
13:00-14:00 HOUR	60.2	72.3	59.4
14:00-15:00 HOUR	59.6	64.6	59.1
15:00-16:00 HOUR	59.4	64.3	58.9
16:00-17:00 HOUR	59.6	65.3	59.1
17:00-18:00 HOUR	59.4	62.5	58.9
18:00-19:00 HOUR	59.4	62.3	59.0
19:00-20:00 HOUR	59.4	67.3	59.0
20:00-21:00 HOUR	59.3	66.6	58.9
21:00-22:00 HOUR	59.3	66.4	58.8
22:00-23:00 HOUR	59.6	64.8	58.9
23:00-00:00 HOUR	59.8	65.4	59.2
00:00-01:00 HOUR	59.6	63.3	59.1
01:00-02:00 HOUR	59.7	63.2	59.1
02:00-03:00 HOUR	59.5	62.6	59.0
03:00-04:00 HOUR	59.1	62.4	58.7
04:00-05:00 HOUR	59.2	64.8	58.6
05:00-06:00 HOUR	59.1	61.9	58.6
06:00-07:00 HOUR	59.0	61.6	58.6
L <sub>Aeq</sub> 24 hours		59.9	
L <sub>Adn</sub>		65.9	



TIME*	RESULT dB(A)		
	ฉบับที่ GPSC		
	MAY 6-7, 2022		
	T22AI974-0009		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	58.8	64.2	58.4
08:00-09:00 HOUR	58.9	60.1	58.6
09:00-10:00 HOUR	58.8	59.9	58.4
10:00-11:00 HOUR	59.2	64.1	58.7
11:00-12:00 HOUR	60.7	69.6	59.3
12:00-13:00 HOUR	61.8	67.2	60.9
13:00-14:00 HOUR	63.9	73.1	62.7
14:00-15:00 HOUR	65.5	72.8	64.4
15:00-16:00 HOUR	66.8	78.0	66.1
16:00-17:00 HOUR	68.9	75.6	63.2
17:00-18:00 HOUR	67.1	74.0	65.1
18:00-19:00 HOUR	67.6	79.2	66.3
19:00-20:00 HOUR	67.1	72.4	65.8
20:00-21:00 HOUR	66.0	72.7	65.4
21:00-22:00 HOUR	65.5	73.7	64.8
22:00-23:00 HOUR	64.3	72.7	62.8
23:00-00:00 HOUR	64.7	76.3	63.4
00:00-01:00 HOUR	64.7	71.0	63.4
01:00-02:00 HOUR	64.6	73.1	62.6
02:00-03:00 HOUR	63.4	72.2	61.9
03:00-04:00 HOUR	64.3	81.7	62.8
04:00-05:00 HOUR	64.6	74.4	63.0
05:00-06:00 HOUR	64.1	76.5	62.5
06:00-07:00 HOUR	66.1	76.1	64.3
L <sub>Aeq</sub> 24 hours		64.9	
L <sub>Adn</sub>		71.1	



TIME*	RESULT dB(A)		
	จังหวัด GPSC		
	MAY 7-8, 2022		
	T22AI974-0010		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	65.8	79.5	64.1
08:00-09:00 HOUR	65.0	72.3	63.6
09:00-10:00 HOUR	62.8	71.1	61.7
10:00-11:00 HOUR	63.4	68.6	61.6
11:00-12:00 HOUR	64.5	67.6	63.1
12:00-13:00 HOUR	63.4	74.2	62.7
13:00-14:00 HOUR	63.5	71.7	62.9
14:00-15:00 HOUR	63.8	67.2	63.0
15:00-16:00 HOUR	63.2	73.2	62.4
16:00-17:00 HOUR	63.4	67.8	62.6
17:00-18:00 HOUR	63.7	68.9	63.0
18:00-19:00 HOUR	63.3	66.5	62.6
19:00-20:00 HOUR	63.2	66.4	62.6
20:00-21:00 HOUR	62.1	65.6	61.5
21:00-22:00 HOUR	62.1	64.1	61.6
22:00-23:00 HOUR	62.2	64.6	61.7
23:00-00:00 HOUR	62.2	64.6	61.6
00:00-01:00 HOUR	62.3	70.5	61.9
01:00-02:00 HOUR	62.5	64.8	62.1
02:00-03:00 HOUR	62.6	64.5	62.2
03:00-04:00 HOUR	62.5	64.5	62.0
04:00-05:00 HOUR	62.5	73.2	62.0
05:00-06:00 HOUR	62.5	65.6	62.0
06:00-07:00 HOUR	62.9	66.0	62.4
L <sub>Aeq</sub> 24 hours	63.2		
L <sub>Adn</sub>	69.1		

TIME*	RESULT dB(A)		
	จังหวัด GPSC		
	MAY 8-9, 2022		
	T22AI974-0011		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	62.7	65.0	62.2
08:00-09:00 HOUR	63.1	66.6	62.4
09:00-10:00 HOUR	63.4	66.7	62.7
10:00-11:00 HOUR	63.5	68.7	62.9
11:00-12:00 HOUR	63.9	71.1	63.1
12:00-13:00 HOUR	63.7	77.6	63.0
13:00-14:00 HOUR	63.4	69.4	62.8
14:00-15:00 HOUR	63.7	73.9	63.0
15:00-16:00 HOUR	63.5	74.0	62.8
16:00-17:00 HOUR	66.5	77.2	62.9
17:00-18:00 HOUR	65.7	75.0	63.3
18:00-19:00 HOUR	64.8	72.7	63.0
19:00-20:00 HOUR	64.3	93.2	62.7
20:00-21:00 HOUR	62.6	68.9	61.8
21:00-22:00 HOUR	66.9	90.9	61.8
22:00-23:00 HOUR	62.5	73.1	61.0
23:00-00:00 HOUR	61.2	67.7	60.4
00:00-01:00 HOUR	62.4	66.3	60.6
01:00-02:00 HOUR	65.3	75.5	62.9
02:00-03:00 HOUR	66.2	90.4	61.6
03:00-04:00 HOUR	63.6	81.0	62.3
04:00-05:00 HOUR	64.0	74.3	63.3
05:00-06:00 HOUR	64.3	73.0	62.3
06:00-07:00 HOUR	63.2	69.8	62.4
L <sub>Aeq</sub> 24 hours		64.2	
L <sub>Adn</sub>		70.4	

TIME*	RESULT dB(A)		
	บริษัท GPSC		
	MAY 9-10, 2022		
	T22AI974-0012		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	63.3	70.4	62.7
08:00-09:00 HOUR	66.5	87.1	62.2
09:00-10:00 HOUR	62.2	74.7	61.2
10:00-11:00 HOUR	62.2	74.6	61.4
11:00-12:00 HOUR	62.5	69.4	61.8
12:00-13:00 HOUR	62.9	71.1	62.3
13:00-14:00 HOUR	63.1	68.2	62.5
14:00-15:00 HOUR	63.0	66.6	62.5
15:00-16:00 HOUR	62.8	66.6	62.1
16:00-17:00 HOUR	62.8	71.9	62.1
17:00-18:00 HOUR	62.7	73.1	62.2
18:00-19:00 HOUR	63.5	68.2	62.6
19:00-20:00 HOUR	68.1	81.3	63.4
20:00-21:00 HOUR	66.5	79.6	62.0
21:00-22:00 HOUR	61.7	67.9	61.0
22:00-23:00 HOUR	61.1	66.3	60.6
23:00-00:00 HOUR	61.8	67.0	61.0
00:00-01:00 HOUR	62.9	66.9	62.5
01:00-02:00 HOUR	62.9	69.4	62.5
02:00-03:00 HOUR	62.9	68.8	62.3
03:00-04:00 HOUR	62.7	69.2	62.2
04:00-05:00 HOUR	62.3	64.9	62.1
05:00-06:00 HOUR	62.4	65.8	62.1
06:00-07:00 HOUR	62.2	65.1	61.9
L <sub>Aeq</sub> 24 hours		63.5	
L <sub>Adn</sub>		69.1	

TIME*	RESULT dB(A)		
	กรุงเทพมหานคร GPSC		
	MAY 10-11, 2022		
	T22AI974-0013		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	62.4	65.9	61.9
08:00-09:00 HOUR	62.1	63.7	61.7
09:00-10:00 HOUR	62.7	65.7	62.3
10:00-11:00 HOUR	62.8	71.0	62.3
11:00-12:00 HOUR	62.7	64.7	62.4
12:00-13:00 HOUR	62.8	66.3	62.5
13:00-14:00 HOUR	62.8	64.5	62.5
14:00-15:00 HOUR	62.3	66.6	61.5
15:00-16:00 HOUR	62.0	63.4	61.6
16:00-17:00 HOUR	62.2	65.8	61.9
17:00-18:00 HOUR	62.0	63.9	61.5
18:00-19:00 HOUR	61.8	63.4	61.5
19:00-20:00 HOUR	62.3	64.0	61.9
20:00-21:00 HOUR	62.2	63.4	62.0
21:00-22:00 HOUR	62.0	63.9	61.7
22:00-23:00 HOUR	62.4	63.8	62.1
23:00-00:00 HOUR	62.4	63.8	62.1
00:00-01:00 HOUR	62.8	68.2	62.2
01:00-02:00 HOUR	63.6	70.7	62.7
02:00-03:00 HOUR	64.1	71.3	63.6
03:00-04:00 HOUR	63.5	75.5	62.6
04:00-05:00 HOUR	63.6	71.3	62.5
05:00-06:00 HOUR	64.4	76.0	63.3
06:00-07:00 HOUR	64.0	76.5	63.0
L <sub>Aeq</sub> 24 hours		62.8	
L <sub>Adn</sub>		69.7	

TIME*	RESULT dB(A)		
	จังหวัด GPSC		
	MAY 11-12, 2022		
	T22AI974-0014		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	66.7	79.7	63.6
08:00-09:00 HOUR	65.1	78.1	62.1
09:00-10:00 HOUR	63.0	76.9	61.8
10:00-11:00 HOUR	62.9	70.4	61.6
11:00-12:00 HOUR	63.6	72.6	61.7
12:00-13:00 HOUR	62.8	69.8	61.3
13:00-14:00 HOUR	61.8	78.1	60.9
14:00-15:00 HOUR	61.5	67.1	60.8
15:00-16:00 HOUR	61.4	67.5	60.6
16:00-17:00 HOUR	62.4	71.4	60.7
17:00-18:00 HOUR	65.0	74.0	61.9
18:00-19:00 HOUR	63.1	74.9	61.4
19:00-20:00 HOUR	63.7	72.5	61.8
20:00-21:00 HOUR	65.1	76.4	61.5
21:00-22:00 HOUR	63.8	74.8	61.3
22:00-23:00 HOUR	65.0	77.8	61.6
23:00-00:00 HOUR	63.9	76.2	60.9
00:00-01:00 HOUR	61.6	70.4	61.0
01:00-02:00 HOUR	61.8	70.6	61.2
02:00-03:00 HOUR	61.8	71.4	61.2
03:00-04:00 HOUR	61.9	73.6	61.3
04:00-05:00 HOUR	61.8	66.2	61.4
05:00-06:00 HOUR	62.2	70.3	61.7
06:00-07:00 HOUR	61.9	65.5	61.5
L <sub>Aeq</sub> 24 hours		63.3	
L <sub>Adn</sub>		69.2	

*Sila*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## 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 SOURCE** : บ้านอ่าวอุดม  
**MEASURING TYPE** : AMBIENT (NOISE)  
**MEASURING DATE** : MAY 5-12, 2022  
**MEASURING TIME** : \*  
**MEASURING METHOD** : INTEGRATED SOUND LEVEL METER  
**MEASURED BY** : MR SIRAPAT JONGPHADUNGKIET

**RECEIVED DATE** : MAY 5-12, 2022  
**ANALYTICAL DATE** : MAY 5-12, 2022  
**REPORT NO.** : 2022-U041109  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AI974-0015 - T22AI974-0021

TIME*	RESULT dB(A)		
	บ้านอ่าวอุดม		
	MAY 5-6, 2022		
	T22AI974-0015		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	51.4	59.1	50.2
08:00-09:00 HOUR	50.9	54.2	50.2
09:00-10:00 HOUR	52.8	64.9	50.0
10:00-11:00 HOUR	52.9	71.3	51.2
11:00-12:00 HOUR	52.5	65.2	51.2
12:00-13:00 HOUR	52.3	63.1	51.3
13:00-14:00 HOUR	52.5	60.4	51.5
14:00-15:00 HOUR	52.3	61.2	51.4
15:00-16:00 HOUR	52.0	57.3	51.1
16:00-17:00 HOUR	51.9	55.6	51.0
17:00-18:00 HOUR	52.1	60.7	51.3
18:00-19:00 HOUR	51.9	56.5	51.0
19:00-20:00 HOUR	52.7	57.6	51.8
20:00-21:00 HOUR	54.7	65.7	52.6
21:00-22:00 HOUR	54.1	65.9	52.7
22:00-23:00 HOUR	54.2	67.3	52.9
23:00-00:00 HOUR	54.1	66.4	52.7
00:00-01:00 HOUR	54.1	66.2	51.4
01:00-02:00 HOUR	52.2	60.5	51.2
02:00-03:00 HOUR	51.9	57.3	51.1
03:00-04:00 HOUR	54.7	66.0	53.4
04:00-05:00 HOUR	54.4	60.6	53.5
05:00-06:00 HOUR	54.5	66.4	53.3
06:00-07:00 HOUR	54.8	67.5	52.8
L <sub>Aeq</sub> 24 hours	53.2		
L <sub>Adn</sub>	60.2		



TIME*	RESULT dB(A)		
	มาตรฐาน		
	MAY 6-7, 2022		
	T22AI974-0016		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	50.1	75.1	46.3
08:00-09:00 HOUR	49.1	76.0	45.7
09:00-10:00 HOUR	48.5	74.4	45.2
10:00-11:00 HOUR	48.3	72.8	44.9
11:00-12:00 HOUR	49.2	75.3	45.7
12:00-13:00 HOUR	49.4	75.5	46.3
13:00-14:00 HOUR	49.1	74.6	45.0
14:00-15:00 HOUR	49.9	77.2	46.4
15:00-16:00 HOUR	48.8	74.6	45.5
16:00-17:00 HOUR	49.3	74.9	45.6
17:00-18:00 HOUR	49.8	76.0	45.9
18:00-19:00 HOUR	49.2	76.9	45.3
19:00-20:00 HOUR	48.9	75.1	45.6
20:00-21:00 HOUR	49.0	74.1	45.0
21:00-22:00 HOUR	52.8	79.1	47.8
22:00-23:00 HOUR	46.3	73.4	42.9
23:00-00:00 HOUR	45.8	72.4	42.0
00:00-01:00 HOUR	45.7	72.6	41.8
01:00-02:00 HOUR	45.0	69.3	41.2
02:00-03:00 HOUR	45.0	70.6	41.2
03:00-04:00 HOUR	45.3	70.2	41.6
04:00-05:00 HOUR	45.5	71.3	42.0
05:00-06:00 HOUR	45.1	72.2	41.6
06:00-07:00 HOUR	50.0	70.4	41.9
L <sub>Aeq</sub> 24 hours		48.6	
L <sub>Adn</sub>		53.3	



TIME*	RESULT dB(A)		
	บ้านลาวอุดม		
	MAY 7-8, 2022		
	T22AI974-0017		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	51.3	73.4	44.6
08:00-09:00 HOUR	51.9	80.2	46.4
09:00-10:00 HOUR	51.3	76.4	47.7
10:00-11:00 HOUR	52.2	77.8	48.6
11:00-12:00 HOUR	52.8	78.5	49.2
12:00-13:00 HOUR	52.9	79.2	49.1
13:00-14:00 HOUR	54.4	80.0	50.7
14:00-15:00 HOUR	54.7	79.0	51.2
15:00-16:00 HOUR	52.8	77.9	48.7
16:00-17:00 HOUR	52.2	79.6	47.6
17:00-18:00 HOUR	52.8	78.5	49.2
18:00-19:00 HOUR	51.3	77.0	47.4
19:00-20:00 HOUR	52.0	76.4	48.6
20:00-21:00 HOUR	51.1	75.2	47.4
21:00-22:00 HOUR	51.7	81.7	47.3
22:00-23:00 HOUR	46.1	71.8	42.2
23:00-00:00 HOUR	46.3	74.3	42.6
00:00-01:00 HOUR	45.7	71.6	42.1
01:00-02:00 HOUR	45.5	71.1	41.7
02:00-03:00 HOUR	45.7	71.7	42.0
03:00-04:00 HOUR	45.6	73.4	41.5
04:00-05:00 HOUR	45.7	71.4	42.1
05:00-06:00 HOUR	46.6	73.0	42.5
06:00-07:00 HOUR	53.5	76.5	46.8
L <sub>Aeq</sub> 24 hours		51.2	
L <sub>Adn</sub>		55.2	

TIME*	RESULT dB(A)		
	มาตรฐาน		
	MAY 8-9, 2022		
	T22AI974-0018		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	52.1	78.4	47.7
08:00-09:00 HOUR	50.1	77.5	45.8
09:00-10:00 HOUR	49.5	76.0	45.9
10:00-11:00 HOUR	51.2	77.9	47.8
11:00-12:00 HOUR	51.5	77.2	47.7
12:00-13:00 HOUR	50.6	78.0	46.5
13:00-14:00 HOUR	52.0	78.2	48.3
14:00-15:00 HOUR	51.8	79.1	48.0
15:00-16:00 HOUR	51.0	77.0	47.5
16:00-17:00 HOUR	52.3	80.5	48.1
17:00-18:00 HOUR	52.9	82.0	47.9
18:00-19:00 HOUR	51.5	80.5	47.8
19:00-20:00 HOUR	51.1	77.2	46.7
20:00-21:00 HOUR	51.0	77.6	47.0
21:00-22:00 HOUR	49.6	77.9	45.6
22:00-23:00 HOUR	45.0	71.6	41.2
23:00-00:00 HOUR	45.5	71.9	42.0
00:00-01:00 HOUR	45.3	71.1	41.5
01:00-02:00 HOUR	45.9	72.2	42.2
02:00-03:00 HOUR	45.0	71.9	41.6
03:00-04:00 HOUR	45.7	71.3	42.3
04:00-05:00 HOUR	45.2	70.5	41.3
05:00-06:00 HOUR	44.9	69.0	41.1
06:00-07:00 HOUR	49.7	75.4	45.5
L <sub>Aeq</sub> 24 hours		50.0	
L <sub>Adn</sub>		53.7	

TIME*	RESULT dB(A)		
	บ้านลาวอุดม		
	MAY 9-10, 2022		
	T22AI974-0019		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	48.8	76.6	44.6
08:00-09:00 HOUR	51.1	81.9	45.5
09:00-10:00 HOUR	50.8	77.7	47.1
10:00-11:00 HOUR	49.5	79.1	44.1
11:00-12:00 HOUR	48.3	75.9	44.2
12:00-13:00 HOUR	49.3	76.8	45.9
13:00-14:00 HOUR	50.2	76.5	46.4
14:00-15:00 HOUR	51.0	78.0	46.7
15:00-16:00 HOUR	48.6	73.5	44.7
16:00-17:00 HOUR	49.3	75.9	46.3
17:00-18:00 HOUR	50.0	76.0	46.8
18:00-19:00 HOUR	50.9	77.6	47.0
19:00-20:00 HOUR	52.2	81.0	48.1
20:00-21:00 HOUR	51.0	76.9	47.8
21:00-22:00 HOUR	54.7	82.6	49.3
22:00-23:00 HOUR	46.0	72.1	42.3
23:00-00:00 HOUR	45.4	70.8	41.7
00:00-01:00 HOUR	45.2	70.5	41.4
01:00-02:00 HOUR	45.2	71.3	41.2
02:00-03:00 HOUR	45.1	70.7	41.7
03:00-04:00 HOUR	45.1	70.6	41.4
04:00-05:00 HOUR	45.0	71.0	41.5
05:00-06:00 HOUR	45.7	71.2	41.5
06:00-07:00 HOUR	51.0	72.9	43.0
L <sub>Aeq</sub> 24 hours		49.6	
L <sub>Adn</sub>		53.8	

TIME*	RESULT dB(A)		
	บ้านลาวอุดม		
	MAY 10-11, 2022		
	T22A1974-0020		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	49.2	76.7	46.0
08:00-09:00 HOUR	49.1	74.8	44.4
09:00-10:00 HOUR	48.7	76.1	45.2
10:00-11:00 HOUR	49.8	73.8	45.0
11:00-12:00 HOUR	49.7	76.6	45.6
12:00-13:00 HOUR	50.2	75.0	46.8
13:00-14:00 HOUR	49.5	76.2	45.9
14:00-15:00 HOUR	50.1	77.5	46.7
15:00-16:00 HOUR	50.8	76.9	47.2
16:00-17:00 HOUR	49.8	74.2	45.7
17:00-18:00 HOUR	49.1	75.0	45.4
18:00-19:00 HOUR	50.9	78.3	46.7
19:00-20:00 HOUR	49.8	75.4	45.4
20:00-21:00 HOUR	49.6	74.8	43.6
21:00-22:00 HOUR	48.8	74.7	46.1
22:00-23:00 HOUR	45.4	73.5	42.4
23:00-00:00 HOUR	45.1	71.9	41.6
00:00-01:00 HOUR	44.9	71.5	41.5
01:00-02:00 HOUR	45.2	69.8	41.8
02:00-03:00 HOUR	45.2	70.3	41.7
03:00-04:00 HOUR	45.3	71.0	41.5
04:00-05:00 HOUR	45.3	71.6	41.4
05:00-06:00 HOUR	45.2	70.3	41.7
06:00-07:00 HOUR	48.8	74.1	45.3
L <sub>Aeq</sub> 24 hours		48.6	
L <sub>Adn</sub>		53.0	

TIME*	RESULT dB(A)		
	แบบจำลอง		
	MAY 11-12, 2022		
	T22AI974-0021		
	L <sub>Aeq</sub> 1 hour	L <sub>Amax</sub> 1 hour	L <sub>A90</sub> 1 hour
07:00-08:00 HOUR	50.6	75.9	46.8
08:00-09:00 HOUR	49.1	74.4	45.4
09:00-10:00 HOUR	48.9	75.1	45.1
10:00-11:00 HOUR	48.5	73.3	45.4
11:00-12:00 HOUR	48.4	72.6	44.6
12:00-13:00 HOUR	49.2	77.4	45.6
13:00-14:00 HOUR	48.5	76.9	44.4
14:00-15:00 HOUR	50.4	77.3	46.4
15:00-16:00 HOUR	49.0	76.0	45.3
16:00-17:00 HOUR	48.6	73.5	45.0
17:00-18:00 HOUR	49.4	75.2	45.8
18:00-19:00 HOUR	49.3	72.6	45.4
19:00-20:00 HOUR	48.8	76.8	45.6
20:00-21:00 HOUR	48.3	73.4	45.1
21:00-22:00 HOUR	52.5	83.0	47.5
22:00-23:00 HOUR	45.5	71.8	42.0
23:00-00:00 HOUR	45.4	71.6	41.9
00:00-01:00 HOUR	45.4	70.0	42.0
01:00-02:00 HOUR	44.9	70.3	41.5
02:00-03:00 HOUR	45.0	71.6	41.5
03:00-04:00 HOUR	45.3	70.5	42.0
04:00-05:00 HOUR	45.1	71.5	42.0
05:00-06:00 HOUR	45.1	70.3	41.2
06:00-07:00 HOUR	50.6	72.8	44.0
L <sub>Aeq</sub> 24 hours		48.5	
L <sub>Adn</sub>		53.3	

*Sila Banjongjairuk*

(MR SILA BANJONGJAIKUK)  
LABORATORY SUPERVISOR

JUNE 3, 2022

## ภาคผนวก ก-5

ผลการติดตามตรวจสอบ  
คุณภาพน้ำทิ้งที่ปล่อยออกจากพื้นที่โครงการ



### 3.4 Waste Water Quality

#### Waste Water Effluent

Sampling Date :

11 Jan 2022, 10:40 AM

Parameter	Unit	Effluent	Standard Values <sup>1</sup>	Method of Analysis
1. Temperature	° C	29.2	40 ° C	Based on APHA (2017), 2550 B
2. pH		8.70	5.5 - 9.0	Based on APHA (2017), 4500-H (B)
3. Conductivity	µS/cm	1,367	-	Based on APHA (2017), 2510 B
4. Total Dissolved Solids (TDS)	mg/l	952	Not more than 3,000	Based on APHA (2017), 2540 C
5. Suspended Solids (SS)	mg/l	<5	Not more than 50	Based on APHA (2017), 2540 D
6. Sulfide as H <sub>2</sub> S	mg/l	<0.5	Not more than 1.0	Based on APHA (2017), 4500-S2(C), (F)
7. Cyanide as HCN	mg/l	Not detected	Not more than 0.2	Based on APHA (2017), 4500-CN(C), (E)
8. Formaldehyde	mg/l	Not detected	Not more than 1.0	Based on Wastewater Analysis
9. Phenols	mg/l	Not detected	Not more than 1.0	Based on APHA (2017), 5530 D
10. Biochemical Oxygen Demand (BOD)	mg/l	<2	Not more than 20	Based on APHA (2017), 5210 B
11. Total Kjeldahl Nitrogen (TKN)	mg/l	<1.0	Not more than 100	Based on APHA (2017), 4500-Norg (D)
12. Chemical Oxygen Demand (COD)	mg/l	38.0	Not more than 120	Based on APHA (2017), 5220 D
13. Fat , Oil and Grease (F-O-G)	mg/l	<3	Not more than 5.0	Based on APHA (2017), 5520 B
14. Total Phosphate ( as PO <sub>4</sub> <sup>3-</sup> )	mg/l	0.103	-	Based on APHA (2017), 4500-PE
15. Free Residual Chlorine	mg/l	<0.1	Not more than 1.0	Based on APHA (2017), 4500-Cl(F)
16. Heavy Metal				
1. Chromium Hexavalent (Cr <sup>6+</sup> )	mg/l	Not detected	Not more than 0.25	Based on APHA (2017), 3500-Cr (B)
2. Chromium trivalent (Cr <sup>3+</sup> )	mg/l	<0.01	Not more than 0.75	Based on APHA (2017), Calculated
3. Zinc (Zn)	mg/l	0.02	Not more than 5.0	Based on APHA (2017), 3125
4. Copper (Cu)	mg/l	0.004	Not more than 2.0	Based on APHA (2017), 3125
5. Cadmium (Cd)	mg/l	Not detected	Not more than 0.03	Based on APHA (2017), 3125
6. Barium (Ba)	mg/l	0.19	Not more than 1.0	Based on APHA (2017), 3125
7. Lead (Pb)	mg/l	Not detected	Not more than 0.2	Based on APHA (2017), 3125
8. Nickel (Ni)	mg/l	0.005	Not more than 1.0	Based on APHA (2017), 3125
9. Manganese (Mn)	mg/l	0.030	Not more than 5.0	Based on APHA (2017), 3125
10. Arsenic (As)	mg/l	0.005	Not more than 0.25	Based on APHA (2017), 3125
11. Selenium (Se)	mg/l	0.0006	Not more than 0.02	Based on APHA (2017), 3125
12. Mercury (Hg)	mg/l	Not detected	Not more than 0.005	Based on US EPA, Method 1631 Rev.E

**Remarks:** 1. Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

2. The above results are valid only for the analyzed/tested sample(s) as indicated in this report.

## Neutralizing Pit

Sampling Date :

11 Jan 2022, 10:50 AM

Analyzed by ALS

Parameter	Unit	Neutralizing Pit	Oily Waste	Standard Values <sup>1</sup>	Method of Analysis
1. Appearance	-	-	Clear	-	Observation method
2. pH		-	8.3	5.5 - 9.0	Based on APHA (2017), 4500-H (B)
3. Total Dissolved Solids (TDS)	mg/l	-	1,004	Not more than 3,000	Based on APHA (2017), 2540 C
4. Biochemical Oxygen Demand (BOD)	mg/l	-	6	Not more than 20	Based on APHA (2017), 2540 D
5. Chemical Oxygen Demand (COD)	mg/l	-	52	Not more than 120	Based on APHA (2017), 5220 D
6. Fat, Oil and Grease (F-O-G)	mg/l	-	4	Not more than 5.0	Based on APHA (2017), 5210 B

- Remarks:**
1. Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
  2. The above results are valid only for the analyzed/tested sample(s) as indicated in this report.
  3. The neutralizing pit was at very low level while acid being discharged in Cation Regeneration step, so no sampling by ALS.



### 3.4 Waste Water Quality

#### Waste Water Effluent

Sampling Date :

8 Feb 2022, 10:55 AM

Parameter	Unit	Effluent	Standard Values <sup>1</sup>	Method of Analysis
1. Temperature	° C	30.5	40 ° C	Based on APHA (2017), 2550 B
2. pH		8.60	5.5 - 9.0	Based on APHA (2017), 4500-H (B)
3. Conductivity	µS/cm	1,201	-	Based on APHA (2017), 2510 B
4. Total Dissolved Solids (TDS)	mg/l	812	Not more than 3,000	Based on APHA (2017), 2540 C
5. Suspended Solids (SS)	mg/l	6	Not more than 50	Based on APHA (2017), 2540 D
6. Sulfide as H <sub>2</sub> S	mg/l	0.6	Not more than 1.0	Based on APHA (2017), 4500-S <sub>2</sub> (C), (F)
7. Cyanide as HCN	mg/l	Not detected	Not more than 0.2	Based on APHA (2017), 4500-CN(C), (E)
8. Formaldehyde	mg/l	<0.1	Not more than 1.0	Based on Wastewater Analysis
9. Phenols	mg/l	Not detected	Not more than 1.0	Based on APHA (2017), 5530 D
10. Biochemical Oxygen Demand (BOD)	mg/l	<2	Not more than 20	Based on APHA (2017), 5210 B
11. Total Kjeldahl Nitrogen (TKN)	mg/l	<1.0	Not more than 100	Based on APHA (2017), 4500-Norg (D)
12. Chemical Oxygen Demand (COD)	mg/l	32.0	Not more than 120	Based on APHA (2017), 5220 D
13. Fat , Oil and Grease (F-O-G)	mg/l	<3	Not more than 5.0	Based on APHA (2017), 5520 B
14. Total Phosphate ( as PO <sub>4</sub> <sup>3-</sup> )	mg/l	0.08	-	Based on APHA (2017), 4500-PO <sub>4</sub>
15. Free Residual Chlorine	mg/l	<0.1	Not more than 1.0	Based on APHA (2017), 4500-Cl(F)
16. Heavy Metal				
1. Chromium Hexavalent (Cr <sup>6+</sup> )	mg/l	Not detected	Not more than 0.25	Based on APHA (2017), 3500-Cr (B)
2. Chromium trivalent (Cr <sup>3+</sup> )	mg/l	<0.01	Not more than 0.75	Based on APHA (2017), Calculated
3. Zinc (Zn)	mg/l	0.02	Not more than 5.0	Based on APHA (2017), 3125
4. Copper (Cu)	mg/l	0.003	Not more than 2.0	Based on APHA (2017), 3125
5. Cadmium (Cd)	mg/l	Not detected	Not more than 0.03	Based on APHA (2017), 3125
6. Barium (Ba)	mg/l	0.20	Not more than 1.0	Based on APHA (2017), 3125
7. Lead (Pb)	mg/l	<0.0005	Not more than 0.2	Based on APHA (2017), 3125
8. Nickel (Ni)	mg/l	0.005	Not more than 1.0	Based on APHA (2017), 3125
9. Manganese (Mn)	mg/l	0.060	Not more than 5.0	Based on APHA (2017), 3125
10. Arsenic (As)	mg/l	0.005	Not more than 0.25	Based on APHA (2017), 3125
11. Selenium (Se)	mg/l	0.0006	Not more than 0.02	Based on APHA (2017), 3125
12. Mercury (Hg)	mg/l	Not detected	Not more than 0.005	Based on US EPA, Method 1631 Rev.E

**Remarks:** 1. Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

2. The above results are valid only for the analyzed/tested sample(s) as indicated in this report.

## Neutralizing Pit

Sampling Date :

8 Feb 2022, 10:45 AM

Analyzed by ALS

Parameter	Unit	Neutralizing Pit	Oily Waste	Standard Values <sup>1</sup>	Method of Analysis
1. Appearance	-	Clear	Clear	-	Observation method
2. pH		7.7	8.4	5.5 - 9.0	Based on APHA (2017), 4500-H (B)
3. Total Dissolved Solids (TDS)	mg/l	6,400	968	Not more than 3,000	Based on APHA (2017), 2540 C
4. Biochemical Oxygen Demand (BOD)	mg/l	<2	3	Not more than 20	Based on APHA (2017), 2540 D
5. Chemical Oxygen Demand (COD)	mg/l	13	41	Not more than 120	Based on APHA (2017), 5220 D
6. Fat, Oil and Grease (F-O-G)	mg/l	<3	<3	Not more than 5.0	Based on APHA (2017), 5210 B

- Remarks:**
1. Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
  2. The above results are valid only for the analyzed/tested sample(s) as indicated in this report.

### 3.4 Waste Water Quality

#### Waste Water Effluent

Sampling Date :

8 Mar 2022, 10:40 AM

No sample (reserved shutdown)

Parameter	Unit	Effluent	Standard Values <sup>1</sup>	Method of Analysis
1. Temperature	° C		40 ° C	Based on APHA (2017), 2550 B
2. pH			5.5 - 9.0	Based on APHA (2017), 4500-H (B)
3. Conductivity	µS/cm		-	Based on APHA (2017), 2510 B
4. Total Dissolved Solids (TDS)	mg/l		Not more than 3,000	Based on APHA (2017), 2540 C
5. Suspended Solids (SS)	mg/l		Not more than 50	Based on APHA (2017), 2540 D
6. Sulfide as H <sub>2</sub> S	mg/l		Not more than 1.0	Based on APHA (2017), 4500-S2(C), (F)
7. Cyanide as HCN	mg/l		Not more than 0.2	Based on APHA (2017), 4500-CN(C), €
8. Formaldehyde	mg/l		Not more than 1.0	Based on Wastewater Analysis
9. Phenols	mg/l		Not more than 1.0	Based on APHA (2017), 5530 D
10. Biochemical Oxygen Demand (BOD)	mg/l		Not more than 20	Based on APHA (2017), 5210 B
11. Total Kjeldahl Nitrogen (TKN)	mg/l		Not more than 100	Based on APHA (2017), 4500-Norg (D)
12. Chemical Oxygen Demand (COD)	mg/l		Not more than 120	Based on APHA (2017), 5220 D
13. Fat , Oil and Grease (F-O-G)	mg/l		Not more than 5.0	Based on APHA (2017), 5520 B
14. Total Phosphate ( as PO <sub>4</sub> <sup>3-</sup> )	mg/l		-	Based on APHA (2017), 4500-P€
15. Free Residual Chlorine	mg/l		Not more than 1.0	Based on APHA (2017), 4500-Cl(F)
16. Heavy Metal				
1. Chromium Hexavalent (Cr <sup>6+</sup> )	mg/l		Not more than 0.25	Based on APHA (2017), 3500-Cr (B)
2. Chromium trivalent (Cr <sup>3+</sup> )	mg/l		Not more than 0.75	Based on APHA (2017), Calculated
3. Zinc (Zn)	mg/l		Not more than 5.0	Based on APHA (2017), 3125
4. Copper (Cu)	mg/l		Not more than 2.0	Based on APHA (2017), 3125
5. Cadmium (Cd)	mg/l		Not more than 0.03	Based on APHA (2017), 3125
6. Barium (Ba)	mg/l		Not more than 1.0	Based on APHA (2017), 3125
7. Lead (Pb)	mg/l		Not more than 0.2	Based on APHA (2017), 3125
8. Nickel (Ni)	mg/l		Not more than 1.0	Based on APHA (2017), 3125
9. Manganese (Mn)	mg/l		Not more than 5.0	Based on APHA (2017), 3125
10. Arsenic (As)	mg/l		Not more than 0.25	Based on APHA (2017), 3125
11. Selenium (Se)	mg/l		Not more than 0.02	Based on APHA (2017), 3125
12. Mercury (Hg)	mg/l		Not more than 0.005	Based on US EPA, Method 1631 Rev.E

**Remarks:** 1. Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

2. The above results are valid only for the analyzed/tested sample(s) as indicated in this report.

## Neutralizing Pit

Sampling Date : 8 Mar 2022, 10:40 AM

Parameter	Unit	Neutralizing Pit	Oily Waste	Standard Values <sup>1</sup>	Method of Analysis
1. Appearance	-	No sample	Clear	-	Observation method
2. pH			7.5	5.5 - 9.0	Based on APHA (2017), 4500-H (B)
3. Total Dissolved Solids (TDS)	mg/l		206	Not more than 3,000	Based on APHA (2017), 2540 C
4. Biochemical Oxygen Demand (BOD)	mg/l		<2	Not more than 20	Based on APHA (2017), 2540 D
5. Chemical Oxygen Demand (COD)	mg/l		16	Not more than 120	Based on APHA (2017), 5220 D
6. Fat, Oil and Grease (F-O-G)	mg/l		<3	Not more than 5.0	Based on APHA (2017), 5210 B

- Remarks:**
1. Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
  2. The above results are valid only for the analyzed/tested sample(s) as indicated in this report.

### 3.4 Waste Water Quality

#### Waste Water Effluent

Sampling Date :

12 Apr 2022, 10:40 AM

Parameter	Unit	Effluent	Standard Values <sup>1</sup>	Method of Analysis
1. Temperature	° C	29.6	40 ° C	Based on APHA (2017), 2550 B
2. pH		8.50	5.5 - 9.0	Based on APHA (2017), 4500-H (B)
3. Conductivity	µS/cm	1,441	-	Based on APHA (2017), 2510 B
4. Total Dissolved Solids (TDS)	mg/l	992	Not more than 3,000	Based on APHA (2017), 2540 C
5. Suspended Solids (SS)	mg/l	6	Not more than 50	Based on APHA (2017), 2540 D
6. Sulfide as H <sub>2</sub> S	mg/l	<0.5	Not more than 1.0	Based on APHA (2017), 4500-S2(C), (F)
7. Cyanide as HCN	mg/l	<0.005	Not more than 0.2	Based on APHA (2017), 4500-CN(C), (F)
8. Formaldehyde	mg/l	Not detected	Not more than 1.0	Based on Wastewater Analysis
9. Phenols	mg/l	Not detected	Not more than 1.0	Based on APHA (2017), 5530 D
10. Biochemical Oxygen Demand (BOD)	mg/l	2	Not more than 20	Based on APHA (2017), 5210 B
11. Total Kjeldahl Nitrogen (TKN)	mg/l	<1.0	Not more than 100	Based on APHA (2017), 4500-Norg (D)
12. Chemical Oxygen Demand (COD)	mg/l	37.0	Not more than 120	Based on APHA (2017), 5220 D
13. Fat , Oil and Grease (F-O-G)	mg/l	<3	Not more than 5.0	Based on APHA (2017), 5520 B
14. Total Phosphate ( as PO <sub>4</sub> <sup>3-</sup> )	mg/l	0.35	-	Based on APHA (2017), 4500-P€
15. Free Residual Chlorine	mg/l	<0.1	Not more than 1.0	Based on APHA (2017), 4500-Cl(F)
16. Heavy Metal				
1. Chromium Hexavalent (Cr <sup>6+</sup> )	mg/l	Not detected	Not more than 0.25	Based on APHA (2017), 3500-Cr (B)
2. Chromium trivalent (Cr <sup>3+</sup> )	mg/l	<0.01	Not more than 0.75	Based on APHA (2017), Calculated
3. Zinc (Zn)	mg/l	0.02	Not more than 5.0	Based on APHA (2017), 3125
4. Copper (Cu)	mg/l	0.006	Not more than 2.0	Based on APHA (2017), 3125
5. Cadmium (Cd)	mg/l	Not detected	Not more than 0.03	Based on APHA (2017), 3125
6. Barium (Ba)	mg/l	0.21	Not more than 1.0	Based on APHA (2017), 3125
7. Lead (Pb)	mg/l	Not detected	Not more than 0.2	Based on APHA (2017), 3125
8. Nickel (Ni)	mg/l	0.007	Not more than 1.0	Based on APHA (2017), 3125
9. Manganese (Mn)	mg/l	0.050	Not more than 5.0	Based on APHA (2017), 3125
10. Arsenic (As)	mg/l	0.005	Not more than 0.25	Based on APHA (2017), 3125
11. Selenium (Se)	mg/l	0.0006	Not more than 0.02	Based on APHA (2017), 3125
12. Mercury (Hg)	mg/l	Not detected	Not more than 0.005	Based on US EPA, Method 1631 Rev.E

**Remarks:** 1. Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

2. The above results are valid only for the analyzed/tested sample(s) as indicated in this report.

## Neutralizing Pit

Sampling Date : 12 Apr 2022, 10:30 AM & 10:20 AM, respectively

Parameter	Unit	Neutralizing Pit	Oily Waste	Standard Values <sup>1</sup>	Method of Analysis
1. Appearance	-	Clear	Clear	-	Observation method
2. pH		7.9	8.2	5.5 - 9.0	Based on APHA (2017), 4500-H (B)
3. Total Dissolved Solids (TDS)	mg/l	860	1,092	Not more than 3,000	Based on APHA (2017), 2540 C
4. Biochemical Oxygen Demand (BOD)	mg/l	<2	6	Not more than 20	Based on APHA (2017), 2540 D
5. Chemical Oxygen Demand (COD)	mg/l	16	52	Not more than 120	Based on APHA (2017), 5220 D
6. Fat, Oil and Grease (F-O-G)	mg/l	<3	5	Not more than 5.0	Based on APHA (2017), 5210 B

- Remarks:**
1. Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
  2. The above results are valid only for the analyzed/tested sample(s) as indicated in this report.

### 3.4 Waste Water Quality

#### Waste Water Effluent

Sampling Date : 10 May 2022, 10:40 AM

Parameter	Unit	Effluent	Standard Values <sup>1</sup>	Method of Analysis
1. Temperature	° C	32.4	40 ° C	Based on APHA (2017), 2550 B
2. pH		8.60	5.5 - 9.0	Based on APHA (2017), 4500-H (B)
3. Conductivity	µS/cm	1,406	-	Based on APHA (2017), 2510 B
4. Total Dissolved Solids (TDS)	mg/l	928	Not more than 3,000	Based on APHA (2017), 2540 C
5. Suspended Solids (SS)	mg/l	<5	Not more than 50	Based on APHA (2017), 2540 D
6. Sulfide as H <sub>2</sub> S	mg/l	<0.5	Not more than 1.0	Based on APHA (2017), 4500-S2(C), (F)
7. Cyanide as HCN	mg/l	Not detected	Not more than 0.2	Based on APHA (2017), 4500-CN(C), (E)
8. Formaldehyde	mg/l	Not detected	Not more than 1.0	Based on Wastewater Analysis
9. Phenols	mg/l	<0.01	Not more than 1.0	Based on APHA (2017), 5530 D
10. Biochemical Oxygen Demand (BOD)	mg/l	<2	Not more than 20	Based on APHA (2017), 5210 B
11. Total Kjeldahl Nitrogen (TKN)	mg/l	1.00	Not more than 100	Based on APHA (2017), 4500-Norg (D)
12. Chemical Oxygen Demand (COD)	mg/l	30.0	Not more than 120	Based on APHA (2017), 5220 D
13. Fat , Oil and Grease (F-O-G)	mg/l	<3	Not more than 5.0	Based on APHA (2017), 5520 B
14. Total Phosphate ( as PO <sub>4</sub> <sup>3-</sup> )	mg/l	0.184	-	Based on APHA (2017), 4500-P€
15. Free Residual Chlorine	mg/l	<0.1	Not more than 1.0	Based on APHA (2017), 4500-Cl(F)
16. Heavy Metal				
1. Chromium Hexavalent (Cr <sup>6+</sup> )	mg/l	Not detected	Not more than 0.25	Based on APHA (2017), 3500-Cr (B)
2. Chromium trivalent (Cr <sup>3+</sup> )	mg/l	<0.01	Not more than 0.75	Based on APHA (2017), Calculated
3. Zinc (Zn)	mg/l	0.02	Not more than 5.0	Based on APHA (2017), 3125
4. Copper (Cu)	mg/l	0.008	Not more than 2.0	Based on APHA (2017), 3125
5. Cadmium (Cd)	mg/l	Not detected	Not more than 0.03	Based on APHA (2017), 3125
6. Barium (Ba)	mg/l	0.18	Not more than 1.0	Based on APHA (2017), 3125
7. Lead (Pb)	mg/l	Not detected	Not more than 0.2	Based on APHA (2017), 3125
8. Nickel (Ni)	mg/l	0.005	Not more than 1.0	Based on APHA (2017), 3125
9. Manganese (Mn)	mg/l	0.040	Not more than 5.0	Based on APHA (2017), 3125
10. Arsenic (As)	mg/l	0.003	Not more than 0.25	Based on APHA (2017), 3125
11. Selenium (Se)	mg/l	0.002	Not more than 0.02	Based on APHA (2017), 3125
12. Mercury (Hg)	mg/l	Not detected	Not more than 0.005	Based on US EPA, Method 1631 Rev.E

**Remarks:** 1. Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

2. The above results are valid only for the analyzed/tested sample(s) as indicated in this report.

## Neutralizing Pit

Sampling Date : 10 May 2022, 10:30 AM & 10:20 AM, respectively

Parameter	Unit	Neutralizing Pit	Oily Waste	Standard Values <sup>1</sup>	Method of Analysis
1. Appearance	-	Clear	Clear	-	Observation method
2. pH		7.5	8.1	5.5 - 9.0	Based on APHA (2017), 4500-H (B)
3. Total Dissolved Solids (TDS)	mg/l	2,060	804	Not more than 3,000	Based on APHA (2017), 2540 C
4. Biochemical Oxygen Demand (BOD)	mg/l	<2	13	Not more than 20	Based on APHA (2017), 2540 D
5. Chemical Oxygen Demand (COD)	mg/l	10	53	Not more than 120	Based on APHA (2017), 5220 D
6. Fat, Oil and Grease (F-O-G)	mg/l	3	4	Not more than 5.0	Based on APHA (2017), 5210 B

- Remarks:**
1. Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).
  2. The above results are valid only for the analyzed/tested sample(s) as indicated in this report.



### 3.4 Waste Water Quality

#### Waste Water Effluent

Sampling Date :

14 June 2022, 2:00 PM

(Reserved Shutdown)

Parameter	Unit	Effluent	Standard Values <sup>1</sup>	Method of Analysis
1. Temperature	° C	-	40 ° C	Based on APHA (2017), 2550 B
2. pH		-	5.5 - 9.0	Based on APHA (2017), 4500-H (B)
3. Conductivity	µS/cm	-	-	Based on APHA (2017), 2510 B
4. Total Dissolved Solids (TDS)	mg/l	-	Not more than 3,000	Based on APHA (2017), 2540 C
5. Suspended Solids (SS)	mg/l	-	Not more than 50	Based on APHA (2017), 2540 D
6. Sulfide as H <sub>2</sub> S	mg/l	-	Not more than 1.0	Based on APHA (2017), 4500-S2(C), (F)
7. Cyanide as HCN	mg/l	-	Not more than 0.2	Based on APHA (2017), 4500-CN(C), €
8. Formaldehyde	mg/l	-	Not more than 1.0	Based on Wastewater Analysis
9. Phenols	mg/l	-	Not more than 1.0	Based on APHA (2017), 5530 D
10. Biochemical Oxygen Demand (BOD)	mg/l	-	Not more than 20	Based on APHA (2017), 5210 B
11. Total Kjeldahl Nitrogen (TKN)	mg/l	-	Not more than 100	Based on APHA (2017), 4500-Norg (D)
12. Chemical Oxygen Demand (COD)	mg/l	-	Not more than 120	Based on APHA (2017), 5220 D
13. Fat , Oil and Grease (F-O-G)	mg/l	-	Not more than 5.0	Based on APHA (2017), 5520 B
14. Total Phosphate ( as PO <sub>4</sub> <sup>3-</sup> )	mg/l	-	-	Based on APHA (2017), 4500-P€
15. Free Residual Chlorine	mg/l	-	Not more than 1.0	Based on APHA (2017), 4500-Cl(F)
16. Heavy Metal		-		
1. Chromium Hexavalent (Cr <sup>6+</sup> )	mg/l	-	Not more than 0.25	Based on APHA (2017), 3500-Cr (B)
2. Chromium trivalent (Cr <sup>3+</sup> )	mg/l	-	Not more than 0.75	Based on APHA (2017), Calculated
3. Zinc (Zn)	mg/l	-	Not more than 5.0	Based on APHA (2017), 3125
4. Copper (Cu)	mg/l	-	Not more than 2.0	Based on APHA (2017), 3125
5. Cadmium (Cd)	mg/l	-	Not more than 0.03	Based on APHA (2017), 3125
6. Barium (Ba)	mg/l	-	Not more than 1.0	Based on APHA (2017), 3125
7. Lead (Pb)	mg/l	-	Not more than 0.2	Based on APHA (2017), 3125
8. Nickel (Ni)	mg/l	-	Not more than 1.0	Based on APHA (2017), 3125
9. Manganese (Mn)	mg/l	-	Not more than 5.0	Based on APHA (2017), 3125
10. Arsenic (As)	mg/l	-	Not more than 0.25	Based on APHA (2017), 3125
11. Selenium (Se)	mg/l	-	Not more than 0.02	Based on APHA (2017), 3125
12. Mercury (Hg)	mg/l	-	Not more than 0.005	Based on US EPA, Method 1631 Rev.E

**Remarks:** 1. Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

2. The above results are valid only for the analyzed/tested sample(s) as indicated in this report.

## Neutralizing Pit

(Reserved

Sampling Date : Shutdown) 14 June 2022, 2:00 PM

Parameter	Unit	Neutralizing Pit	Oily Waste	Standard Values <sup>1</sup>	Method of Analysis
1. Appearance	-	-	Clear	-	Observation method
2. pH	-	-	7.2	5.5 - 9.0	Based on APHA (2017), 4500-H (B)
3. Total Dissolved Solids (TDS)	mg/l	-	198	Not more than 3,000	Based on APHA (2017), 2540 C
4. Biochemical Oxygen Demand (BOD)	mg/l	-	<2	Not more than 20	Based on APHA (2017), 2540 D
5. Chemical Oxygen Demand (COD)	mg/l	-	<5	Not more than 120	Based on APHA (2017), 5220 D
6. Fat, Oil and Grease (F-O-G)	mg/l	-	<3	Not more than 5.0	Based on APHA (2017), 5210 B

**Remarks:** 1. Effluent standard for factories, industrial estate and industrial park set by Notification of the Ministry of Natural Resource and Environment and effluent standard for factories and industrial park set by Notification of The Ministry of Industry dated June 07, B.E.2560 (2017).

2. The above results are valid only for the analyzed/tested sample(s) as indicated in this report.

## ภาคผนวก ก-6

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ผลการติดตามตรวจสอบคุณภาพน้ำทะเล



## 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 12, 2022  
**SAMPLING TIME** : 13:20 HOUR  
**SAMPLING METHOD** : COMPOSITE  
**SAMPLING BY** : MR ANUSART SUAYDEE  
**ANALYZED BY** : MISS KANNIKAR SUMLEETHA

**RECEIVED DATE** : APRIL 12, 2022  
**ANALYTICAL DATE** : APRIL 12-26, 2022  
**REPORT NO.** : 2022-U030767  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AH088-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			REFINERY OUTFALL T22AH088-0001	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.1 (32°C)	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER AT SITE (SM: 2550 B)	32	-
DISSOLVED OXYGEN <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: 4500-O G)	5.0	0.5
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	1.1	0.5
TOTAL AMMONIA <sup>b</sup>	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 <sub>3</sub> H	125	10.0
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

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

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

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

ND : NON-DETECTABLE.



(MISS PAWEENA CHARASCHOTEPINIT)  
LABORATORY SUPERVISOR

APRIL 29, 2022



## 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 12, 2022  
**SAMPLING TIME** : 12:45 HOUR  
**SAMPLING METHOD** : COMPOSITE  
**SAMPLING BY** : MR ANUSART SUAYDEE  
**ANALYZED BY** : MISS KANNIKAR SUMLEETHA

**RECEIVED DATE** : APRIL 12, 2022  
**ANALYTICAL DATE** : APRIL 12-26, 2022  
**REPORT NO.** : 2022-U030768  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AH088-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			JETTY # 3 T22AH088-0002	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.2 (30°C)	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER AT SITE (SM: 2550 B)	30	-
DISSOLVED OXYGEN <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: 4500-O G)	5.2	0.5
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	1.6	0.5
TOTAL AMMONIA <sup>b</sup>	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 <sub>3</sub> H	162	10.0
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

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

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

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

ND : NON-DETECTABLE.

*Paewena Ch.*

(MISS PAWEENA CHARASCHOTEPINIT)  
LABORATORY SUPERVISOR

APRIL 29, 2022





## 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 12, 2022  
**SAMPLING TIME** : 12:00 HOUR  
**SAMPLING METHOD** : COMPOSITE  
**SAMPLING BY** : MR ANUSART SUAYDEE  
**ANALYZED BY** : MISS KANNIKAR SUMLEETHA

**RECEIVED DATE** : APRIL 12, 2022  
**ANALYTICAL DATE** : APRIL 12-26, 2022  
**REPORT NO.** : 2022-U030769  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AH088-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			CONVENTIONAL BUOY MOORING T22AH088-0003	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.2 (30°C)	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER AT SITE (SM: 2550 B)	30	-
DISSOLVED OXYGEN <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: 4500-O G)	5.2	0.5
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	1.4	0.5
TOTAL AMMONIA <sup>b</sup>	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 <sub>3</sub> H	134	10.0
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

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

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

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

ND : NON-DETECTABLE.

*Paewena Ch.*

(MISS PAWEENA CHARASCHOTEPINIT)  
LABORATORY SUPERVISOR

APRIL 29, 2022



## 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 12, 2022  
**SAMPLING TIME** : 11:30 HOUR  
**SAMPLING METHOD** : COMPOSITE  
**SAMPLING BY** : MR ANUSART SUAYDEE  
**ANALYZED BY** : MISS KANNIKAR SUMLEETHA

**RECEIVED DATE** : APRIL 12, 2022  
**ANALYTICAL DATE** : APRIL 12-26, 2022  
**REPORT NO.** : 2022-U030770  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AH088-0004

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT	DETECTION LIMIT
			SINGLE BUOY MOORING 1 T22AH088-0004	
pH <sup>a</sup>	-	ELECTROMETRIC METHOD AT SITE (SM:4500-H <sup>+</sup> B)	8.1 (30°C)	-
TEMPERATURE <sup>c</sup>	°C	THERMOMETER AT SITE (SM: 2550 B)	30	-
DISSOLVED OXYGEN <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD AT SITE (SM: 4500-O G)	4.9	0.5
BIOCHEMICAL OXYGEN DEMAND <sup>c</sup>	mg/L	MEMBRANE ELECTRODE METHOD (SM: 4500-O G AND 5210 B)	0.6	0.5
TOTAL AMMONIA <sup>b</sup>	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 <sub>3</sub> H	106	10.0
FAT, OIL AND GREASE <sup>c</sup>	mg/L	SOXHLET EXTRACTION METHOD (SM: 5520 D)	ND	3
<b>SAMPLE CONDITION</b> WATER'S COLOUR/TURBID SEDIMENT			COLOURLESS/CLEAR YELLOW	

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

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

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

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

ND : NON-DETECTABLE.



(MISS PAWEENA CHARASCHOTEPINIT)  
LABORATORY SUPERVISOR

APRIL 29, 2022



## ภาคผนวก ก-7

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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 : 09 6713 9936 e-mail : angšana.t@gpscgroup.com  
**MEASURING PLACE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**MEASURING TYPE** : WORKPLACE (NOISE) **RECEIVED DATE** : MARCH 26, 2022  
**MEASURING DATE** : MARCH 26, 2022 **ANALYTICAL DATE** : MARCH 26, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U025028  
**MEASURING EQUIPMENT** : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2021-003478  
**MEASURED BY** : MR WORAWUT JITMAIKASEM **ANALYSIS NO.** : T22AF898-0001 - T22AF898-0024

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L <sub>Aeq</sub> 5 min	L <sub>Amax</sub> 5 min
T22AF898-0001	BFP CT2	09:00-09:05	78.3	79.2
T22AF898-0002	STEAM LINE HRSG2	09:02-09:07	79.7	80.3
T22AF898-0003	CT2 ENCLOSURE 1	09:04-09:09	84.6	85.0
T22AF898-0004	BLOW DOWN TANK CT2	09:11-09:16	75.1	81.7
T22AF898-0005	CT2 ENCLOSURE 1	09:13-09:18	79.2	79.8
T22AF898-0006	AIR INLET CT2	09:15-09:20	81.9	82.6
T22AF898-0007	CT2 TRANSFORMER	09:22-09:27	76.0	76.5
T22AF898-0008	CT2 GENERATOR	09:24-09:29	82.8	83.3
T22AF898-0009	MECHANICAL PACKAGE 2	09:26-09:31	80.4	80.8
T22AF898-0010	BFP CT1	09:33-09:38	80.5	80.9
T22AF898-0011	STEAM LINE HRSG2	09:35-09:40	81.1	81.7
T22AF898-0012	CT1 ENCLOSURE 1	09:37-09:42	85.3	85.6
T22AF898-0013	BLOW DOWN TANK CT1	09:44-09:49	79.2	79.5
T22AF898-0014	CT1 ENCLOSURE 2	09:46-09:51	80.2	80.6
T22AF898-0015	AIR INLET CT1	09:48-09:53	83.4	83.8
T22AF898-0016	CT1 TRANSFORMER	09:55-10:00	79.6	80.7
T22AF898-0017	CT1 GENERATOR	09:57-10:02	83.9	84.3
T22AF898-0018	MECHANICAL PACKAGE 1	09:59-10:04	80.1	80.4
T22AF898-0019	ST TRANSFORMER	10:06-10:11	78.9	79.6
T22AF898-0020	ST GENERATOR	10:08-10:13	82.6	83.4
T22AF898-0021	CONDENSER	10:10-10:15	78.3	78.7
T22AF898-0022	ST LUBE OIL COOLER	10:17-10:22	82.5	84.4
T22AF898-0023	AUXILIARY CW PUMP	10:19-10:24	79.0	79.5
T22AF898-0024	CIRCULATING PUMP	10:21-10:26	85.3	86.6

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

APRIL 5, 2022



## 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** : JUNE 10, 2022  
**MEASURING DATE** : JUNE 10, 2022 **ANALYTICAL DATE** : JUNE 10, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U047852  
**MEASURING EQUIPMENT** : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2021-003478  
**MEASURED BY** : MR POOWADON MONGKONSOONG **ANALYSIS NO.** : T22AL366-0001 - T22AL366-0024

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L <sub>Aeq</sub> 5 min	L <sub>Amax</sub> 5 min
T22AL366-0001	BFP CT2	08:55-09:00	65.2	68.4
T22AL366-0002	STEAM LINE HRSG2	08:57-09:02	72.8	74.4
T22AL366-0003	CT2 ENCLOSURE 1	09:03-09:08	81.6	82.1
T22AL366-0004	BLOW DOWN TANK CT2	09:05-09:10	69.5	73.5
T22AL366-0005	CT2 ENCLOSURE 2	09:11-09:16	71.8	74.0
T22AL366-0006	AIR INLET CT2	09:13-09:18	75.8	76.3
T22AL366-0007	CT2 TRANSFORMER	09:19-09:24	67.8	72.2
T22AL366-0008	CT2 GENERATOR	09:21-09:26	79.3	79.8
T22AL366-0009	MECHANICAL PACKAGE 2	09:27-09:32	75.4	76.0
T22AL366-0010	BFP CT1	09:29-09:34	67.7	68.4
T22AL366-0011	STEAM LINE HRSG1	09:35-09:40	72.5	73.1
T22AL366-0012	CT1 ENCLOSURE 1	09:37-09:42	82.2	82.7
T22AL366-0013	BLOW DOWN TANK CT1	09:43-09:48	72.0	72.7
T22AL366-0014	CT1 ENCLOSURE 2	09:45-09:50	72.3	72.8
T22AL366-0015	AIR INLET CT1	09:51-09:56	75.2	75.8
T22AL366-0016	CT1 TRANSFORMER	09:53-09:58	69.2	69.6
T22AL366-0017	CT1 GENERATOR	09:59-10:04	79.3	80.1
T22AL366-0018	MECHANICAL PACKAGE 1	10:01-10:06	76.9	77.9
T22AL366-0019	ST TRANSFORMER	10:07-10:12	65.3	67.4
T22AL366-0020	ST GENERATOR	10:09-10:14	73.6	74.4
T22AL366-0021	CONDENSER	10:15-10:20	71.1	71.5
T22AL366-0022	ST LUBE OIL COOLER	10:17-10:22	72.0	73.5
T22AL366-0023	AUXILIATY CW PUMP	10:23-10:28	69.6	69.9
T22AL366-0024	CIRCULATING PUMP	10:25-10:30	63.2	64.5

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

JUNE 23, 2022



## ภาคผนวก ก-8

ผลการติดตามตรวจสอบ  
ระดับเสียงเฉลี่ย 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 : 09 6713 9936 e-mail : angana.t@gpscgroup.com  
**MEASURING PLACE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**MEASURING TYPE** : WORKPLACE (NOISE) **RECEIVED DATE** : MARCH 31, 2022  
**MEASURING DATE** : MARCH 31, 2022 **ANALYTICAL DATE** : MARCH 31, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U025921  
**MEASURING EQUIPMENT** : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2021-003478  
**MEASURED BY** : MR WORAWUT JITMAIKASEM **ANALYSIS NO.** : T22AG215-0001

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			L <sub>Aeq</sub> 8 hours	L <sub>Amax</sub> 8 hours
T22AG215-0001	บริเวณหน่วยผลิต	08:05-16:05	74.0	78.9

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

APRIL 8, 2022





## 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 : 09 6713 9936 e-mail : angkana.t@gpscgroup.com  
**MEASURING PLACE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**MEASURING TYPE** : WORKPLACE (NOISE) **RECEIVED DATE** : MARCH 31, 2022  
**MEASURING DATE** : MARCH 31, 2022 **ANALYTICAL DATE** : MARCH 31, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U025922  
**MEASURING EQUIPMENT** : INTEGRATED SOUND LEVEL METER **WORK NO.** : 2021-003478  
**MEASURED BY** : MR WORAWUT JITMAIKASEM **ANALYSIS NO.** : T22AG216-0001

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT (dB(A))	
			LAeq 12 hours	LAmx 12 hours
T22AG216-0001	บริเวณหน่วยผลิต	08:05-20:05	74.0	78.9

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

APRIL 8, 2022



## ภาคผนวก ก-9

ผลการติดตามตรวจสอบ  
ระดับเสียงแบบติดตัวบุคคล



## 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 : 09 6713 9936 e-mail : angšana.t@gpscgroup.com  
**MEASURING PLACE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**MEASURING TYPE** : WORKPLACE (NOISE DOSE) **RECEIVED DATE** : APRIL 21, 2022  
**MEASURING DATE** : APRIL 21, 2022 **ANALYTICAL DATE** : APRIL 21, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U030687  
**MEASURING EQUIPMENT** : NOISE DOSE METER **WORK NO.** : 2021-003478  
**MEASURED BY** : MR CHOOCHAI LORUTHAI **ANALYSIS NO.** : T22AH580-0001 - T22AH580-0002

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT		
			TWA <sub>8 HOUR</sub> (dB(A))	L <sub>Amax</sub> (dB(A))	DOSE (%)
T22AH580-0001	บริเวณ F2 ช่วงเช้า (คุณจิรายุ รังศิริ)	07:11-15:11	80.7	104	37.5
T22AH580-0002	บริเวณ F1 ช่วงเช้า (คุณอนุพล โนนเทา)	07:15-15:15	82.2	104	52.4

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

APRIL 27, 2022



## 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 : 09 6713 9936 e-mail : angšana.t@gpscgroup.com  
**MEASURING PLACE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**MEASURING TYPE** : WORKPLACE (NOISE DOSE) **RECEIVED DATE** : APRIL 21-22, 2022  
**MEASURING DATE** : APRIL 21-22, 2022 **ANALYTICAL DATE** : APRIL 21-22, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U030688  
**MEASURING EQUIPMENT** : NOISE DOSE METER **WORK NO.** : 2021-003478  
**MEASURED BY** : MR CHOOCHAI LORUTHAI **ANALYSIS NO.** : T22AH580-0003 - T22AH580-0004

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT		
			TWA <sub>8 HOUR</sub> (dB(A))	L <sub>Amax</sub> (dB(A))	DOSE (%)
T22AH580-0003	บริเวณ F2 ช่วงดึก (คุณจิรภัทร จันทร์ช่วย)	19:20-03:20	79.9	103	30.9
T22AH580-0004	บริเวณ F1 ช่วงดึก (คุณประทีป จันทร์ปาน)	19:22-03:22	76.5	106	14.0

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

APRIL 27, 2022





## 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 : 09 6713 9936 e-mail : angkana.t@gpscgroup.com  
**MEASURING PLACE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**MEASURING TYPE** : WORKPLACE (NOISE DOSE) **RECEIVED DATE** : APRIL 21, 2022  
**MEASURING DATE** : APRIL 21, 2022 **ANALYTICAL DATE** : APRIL 21, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U030689  
**MEASURING EQUIPMENT** : NOISE DOSE METER **WORK NO.** : 2021-003478  
**MEASURED BY** : MR CHOOCHAI LORUTHAI **ANALYSIS NO.** : T22AH581-0001 - T22AH581-0002

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT			
			LAVG <sub>12 HOUR</sub> (dB(A))	TWA <sub>8 HOUR</sub> (dB(A))	L <sub>Amax</sub> (dB(A))	DOSE (%)
T22AH581-0001	บริเวณ F2 ช่วงเช้า (คุณจิรายุ รังศิริ)	07:11-19:11	80.0	81.8	104	47.4
T22AH581-0002	บริเวณ F1 ช่วงเช้า (คุณอนุพล โนนเทา)	07:15-19:15	80.4	82.2	104	52.5

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

APRIL 27, 2022



## 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 : 09 6713 9936 e-mail : angšana.t@gpscgroup.com  
**MEASURING PLACE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**MEASURING TYPE** : WORKPLACE (NOISE DOSE) **RECEIVED DATE** : APRIL 21-22, 2022  
**MEASURING DATE** : APRIL 21-22, 2022 **ANALYTICAL DATE** : APRIL 21-22, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U030690  
**MEASURING EQUIPMENT** : NOISE DOSE METER **WORK NO.** : 2021-003478  
**MEASURED BY** : MR CHOOCHAI LORUTHAI **ANALYSIS NO.** : T22AH581-0003 - T22AH581-0004

ANALYSIS NO.	MEASURING SITE	TIME* (HOUR)	RESULT			
			LAVG <sub>12 HOUR</sub> (dB(A))	TWA <sub>8 HOUR</sub> (dB(A))	L <sub>Amax</sub> (dB(A))	DOSE (%)
T22AH581-0003	บริเวณ F2 ช่วงดึก (คุณจิรภัทร จันทร์ช่วย)	19:20-07:20	78.3	80.0	103	318
T22AH581-0004	บริเวณ F1 ช่วงดึก (คุณประทีป จันทร์ปาน)	19:22-07:22	75.2	76.9	106	15.5

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

APRIL 27, 2022



## ภาคผนวก ก-10

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ผลการติดตามตรวจสอบ  
คุณภาพอากาศในสถานประกอบการ



## 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 : 09 6713 9936 e-mail : angšana.t@gpscgroup.com  
**SAMPLING SOURCE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED 42/3 MOO 1, SUKHUMVIT ROAD KM.124, TUNGSUKLA SIRACHA, CHONBURI 20230.  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : MARCH 26, 2022  
**SAMPLING TIME** : 08:34-10:04 HOUR  
**SAMPLING BY** : MR POOWADON MONGKONSOONG  
**ANALYZED BY** : MISS SUWAN KONGTHONG

**RECEIVED DATE** : MARCH 28, 2022  
**ANALYTICAL DATE** : MARCH 28 - APRIL 1, 2022  
**REPORT NO.** : 2022-U025076  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AF896-0001

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			COOLING TOWER T22AF896-0001
SODIUM HYPOCHLORITE	mg/m <sup>3</sup>	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.

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

APRIL 7, 2022



## 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 : 09 6713 9936 e-mail : angšana.t@gpscgroup.com  
**SAMPLING SOURCE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED 42/3 MOO 1, SUKHUMVIT ROAD KM.124, TUNGSUKLA SIRACHA, CHONBURI 20230.  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : MARCH 26, 2022  
**SAMPLING TIME** : 08:38-16:38 HOUR  
**SAMPLING BY** : MR POOWADON MONGKONSOONG  
**ANALYZED BY** : MISS SUWAN KONGTHONG

**RECEIVED DATE** : MARCH 28, 2022  
**ANALYTICAL DATE** : MARCH 28 - APRIL 1, 2022  
**REPORT NO.** : 2022-U025077  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AF896-0002

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			DEMIN BUILDING T22AF896-0002
SODIUM HYDROXIDE	mg/m <sup>3</sup>	TITRATION METHOD (NIOSH METHOD 7401)	< 0.04
SULPHURIC ACID	mg/m <sup>3</sup>	ION CHROMATOGRAPHIC METHOD (NIOSH METHOD 7903)	0.002
SAMPLE CONDITION			COMPLETE

**REMARK**

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

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

APRIL 7, 2022





## 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 : 09 6713 9936 e-mail : angana.t@gpscgroup.com  
**SAMPLING SOURCE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED 42/3 MOO 1, SUKHUMVIT ROAD KM.124, TUNGSUKLA SIRACHA, CHONBURI 20230.  
**SAMPLE TYPE** : WORKPLACE  
**SAMPLING DATE** : MARCH 26, 2022  
**SAMPLING TIME** : 08:42-16:42 HOUR  
**SAMPLING BY** : MR POOWADON MONGKONSOONG  
**ANALYZED BY** : MISS SUWAN KONGTHONG

**RECEIVED DATE** : MARCH 28, 2022  
**ANALYTICAL DATE** : MARCH 28 - APRIL 1, 2022  
**REPORT NO.** : 2022-U025079  
**WORK NO.** : 2021-003478  
**ANALYSIS NO.** : T22AF896-0003

PARAMETER	UNIT	METHOD OF ANALYSIS	RESULT
			NEUTRALIZATION SUMP T22AF896-0003
SODIUM HYDROXIDE	mg/m <sup>3</sup>	TITRATION METHOD (NIOSH METHOD 7401)	< 0.04
SULPHURIC ACID	mg/m <sup>3</sup>	ION CHROMATOGRAPHIC METHOD (NIOSH METHOD 7903)	< 0.001
<b>SAMPLE CONDITION</b>			COMPLETE

**REMARK**

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

*Piyapat S.*

(MRS PIYAPAT SUTTAMANUTWONG)  
LABORATORY SUPERVISOR

APRIL 7, 2022



## 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 : 09 6713 9936 e-mail : angkana.t@gpscgroup.com  
**MEASURING PLACE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**MEASURING TYPE** : WORKPLACE (AIR) **RECEIVED DATE** : MARCH 26, 2022  
**MEASURING DATE** : MARCH 26, 2022 **ANALYTICAL DATE** : MARCH 26, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U025027  
**MEASURING EQUIPMENT** : THC ANALYZER **WORK NO.** : 2021-003478  
**MEASURED BY** : MR POOWADON MONGKONSOONG **ANALYSIS NO.** : T22AF896-0004 - T22AF896-0005

ANALYSIS NO.	MEASURING SITE	TIME*	RESULT (ppm)
			TOTAL HYDROCARBONS
T22AF896-0004	PROPANE TANK	08:47-16:47 HOUR	6.13
T22AF896-0005	NG GAS SEPARATER OF GT-11	08:51-16:51 HOUR	5.38



(MR NATTAWAT DANGAWAT)  
LABORATORY SUPERVISOR

APRIL 5, 2022



## ภาคผนวก ก-11

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ผลการติดตามตรวจสอบความร้อนในสถานประกอบการ





## 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 : 09 6713 9936 e-mail : angsana.t@gpscgroup.com  
**MEASURING PLACE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**MEASURING TYPE** : WORKPLACE (HEAT STRESS) **RECEIVED DATE** : MARCH 26, 2022  
**MEASURING DATE** : MARCH 26, 2022 **ANALYTICAL DATE** : MARCH 26, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U025029  
**MEASURING EQUIPMENT** : WET BULB GLOBE TEMPERATURE **WORK NO.** : 2021-003478  
**MEASURED BY** : MR WORAWUT JITMAIKASEM **ANALYSIS NO.** : T22AF897-0001 - T22AF897-0004

ANALYSIS NO.	MEASURING SITE	DURATION TIME*	RESULT (DEGREE CELSIUS)				
			NWB	DB	GT	WBGT	WBGT AVG
T22AF897-0001	STEAM LINE HRSG 1 (คุณวงศธร ใจหล้า)	10:00-11:20 HOUR	28.3	33.3	44.3	33.1	30.6
		11:20-12:00 HOUR	25.3	26.3	26.4	25.6	
T22AF897-0002	STEAM LINE HRSG 2 (คุณจิรภัทร จันทร์ช่วย)	10:05-11:25 HOUR	28.3	32.8	44.3	33.1	30.5
		11:25-12:05 HOUR	24.7	25.7	26.5	25.2	
T22AF897-0003	COMBUSTION TURBINE 2 (คุณจิรภัทร จันทร์ช่วย)	13:00-14:20 HOUR	27.7	32.4	43.4	32.4	29.9
		14:20-15:00 HOUR	24.4	25.4	26.3	25.0	
T22AF897-0004	COMBUSTION TURBINE 1 (คุณวงศธร ใจหล้า)	13:05-14:25 HOUR	27.3	32.7	42.6	31.8	29.6
		14:25-15:05 HOUR	24.7	25.6	26.6	25.2	

*Nattawat*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

APRIL 11, 2022



## 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 : 09 6713 9936 e-mail : angšana.t@gpscgroup.com  
**MEASURING PLACE** : GLOBAL POWER SYNERGY PUBLIC COMPANY LIMITED  
**MEASURING TYPE** : WORKPLACE (HEAT STRESS) **RECEIVED DATE** : MARCH 31, 2022  
**MEASURING DATE** : MARCH 31, 2022 **ANALYTICAL DATE** : MARCH 31, 2022  
**MEASURING TIME** : \* **REPORT NO.** : 2022-U025920  
**MEASURING EQUIPMENT** : WET BULB GLOBE TEMPERATURE **WORK NO.** : 2021-003478  
**MEASURED BY** : MR WORAWUT JITMAIKASEM **ANALYSIS NO.** : T22AG214-0001 - T22AG214-0003

ANALYSIS NO.	MEASURING SITE	DURATION TIME*	RESULT (DEGREE CELSIUS)				
			NWB	DB	GT	WBGT	WBGT AVG
T22AG214-0001	BOILER 2 (คุณมานพ ทองหนูรุ่ง)	10:05-11:25 HOUR	31.4	32.2	35.7	32.7	29.7
		11:25-12:05 HOUR	23.4	24.6	24.8	23.8	
T22AG214-0002	BOILER 1 (คุณศุภโชค ประพฤติชอบ)	10:10-11:30 HOUR	30.6	31.5	35.8	32.1	29.4
		11:30-12:10 HOUR	23.6	24.8	25.1	24.0	
T22AG214-0003	STEAM TURBINE (คุณมานพ ทองหนูรุ่ง)	13:10-14:30 HOUR	29.1	32.9	37.8	31.7	29.2
		14:30-15:10 HOUR	23.9	25.0	25.2	24.3	

*Nattawat.*

(MR NATTAWAT DANGSAWAT)  
LABORATORY SUPERVISOR

APRIL 8, 2022

