

ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ภาคผนวก ค-1

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 2443460
Date Received : Jun 03, 2024
Date Reported : Jun 07, 2024
Report Number: 2969268-1

Page 1 of 1

Sample Description	Air Quality				
Location	โรงเรียนพหุวิทยา (GPS 47P 0735497, 1445317)				
Date Analysis Commenced	Jun 03, 2024				
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2443460-1	May 24 - May 25, 2024	0.034	0.017	755	30
2443460-2	May 25 - May 26, 2024	0.019	0.015	755	30
2443460-3	May 26 - May 27, 2024	0.026	0.017	755	30
2443460-4	May 27 - May 28, 2024	0.028	0.022	755	32
2443460-5	May 28 - May 29, 2024	0.025	0.019	755	32
2443460-6	May 29 - May 30, 2024	0.030	0.020	755	32
2443460-7	May 30 - May 31, 2024	0.026	0.020	755	33
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Satcha Phetsawaeng

Remark :

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Approved by

Thanitak.

Thanita Kulsuriwong
Scientist (4)

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 2443460
Date Received : Jun 03, 2024
Date Reported : Jun 07, 2024
Report Number: 2969268-2

Page 1 of 1

Sample Description	Air Quality				
Location	โรงเรียนพหุวิทยา (GPS 47P 0738199, 1443916)				
Date Analysis Commenced	Jun 03, 2024				
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag				
Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2443460-8	May 24 - May 25, 2024	0.039	0.018	755	30
2443460-9	May 25 - May 26, 2024	0.021	0.014	755	30
2443460-10	May 26 - May 27, 2024	0.032	0.016	755	30
2443460-11	May 27 - May 28, 2024	0.046	0.020	755	32
2443460-12	May 28 - May 29, 2024	0.070	0.022	755	32
2443460-13	May 29 - May 30, 2024	0.068	0.029	755	32
2443460-14	May 30 - May 31, 2024	0.072	0.023	755	33
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Satcha Phetsawaeng

Remark :

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Analysis / Test Report



TESTING
No.0042

Lot ID: 2443460

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 2969268-3

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Page 1 of 1

Sample Description	Air Quality
Location	โรงงานท่าเรือ (ท่าเรืออุตสาหกรรม) (GPS 47P 0739512, 1447941)
Date Analysis Commenced	Jun 03, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2443460-15	May 24 - May 25, 2024	0.038	0.015	755	30
2443460-16	May 25 - May 26, 2024	0.021	0.013	755	30
2443460-17	May 26 - May 27, 2024	0.029	0.013	755	30
2443460-18	May 27 - May 28, 2024	0.031	0.017	755	32
2443460-19	May 28 - May 29, 2024	0.030	0.013	755	32
2443460-20	May 29 - May 30, 2024	0.034	0.017	755	32
2443460-21	May 30 - May 31, 2024	0.032	0.013	755	33
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Satcha Phetsawaeng

Remark :

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Analysis / Test Report



TESTING
No.0042

Lot ID: 2443460

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 2969268-4

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Page 1 of 1

Sample Description	Air Quality
Location	โรงงานท่าเรือ (ท่าเรืออุตสาหกรรม) (GPS 47P 0738170, 1442937)
Date Analysis Commenced	Jun 03, 2024
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2443460-22	May 24 - May 25, 2024	0.032	0.016	755	30
2443460-23	May 25 - May 26, 2024	0.023	0.014	755	30
2443460-24	May 26 - May 27, 2024	0.023	0.014	755	30
2443460-25	May 27 - May 28, 2024	0.026	0.018	755	32
2443460-26	May 28 - May 29, 2024	0.030	0.019	755	32
2443460-27	May 29 - May 30, 2024	0.030	0.018	755	32
2443460-28	May 30 - May 31, 2024	0.021	0.011	755	33
Guideline		0.33	0.12	-	-

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

Guideline : Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

Sampled By : Satcha Phetsawaeng

Remark :

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443457

Date Received : Jun 03, 2024

Date Reported : Jun 08, 2024

Report Number: 2969265-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงเรียนพนาสาคัด (GPS 47P 0735497, 1445317)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	May 24, 2024 - May 31, 2024						
Measurement by	Satcha Phetsawaeng						
	2443457-1	2443457-2	2443457-3	2443457-4	2443457-5	2443457-6	2443457-7
Time	May 24, 2024	May 25, 2024	May 26, 2024	May 27, 2024	May 28, 2024	May 29, 2024	May 30, 2024
09:00 AM - 10:00 AM	0.007	0.005	0.008	0.005	0.010	0.005	0.011
10:00 AM - 11:00 AM	0.006	0.004	0.008	0.006	0.012	0.007	0.013
11:00 AM - 12:00 PM	0.004	0.004	0.013	0.007	0.010	0.005	0.006
12:00 PM - 01:00 PM	0.004	0.004	0.014	0.006	0.014	0.005	0.014
01:00 PM - 02:00 PM	0.003	0.011	0.014	0.007	0.010	0.012	0.020
02:00 PM - 03:00 PM	0.004	0.013	0.016	0.014	0.013	0.014	0.028
03:00 PM - 04:00 PM	0.006	0.008	0.014	0.016	0.010	0.010	0.007
04:00 PM - 05:00 PM	0.012	0.006	0.013	0.008	0.006	0.007	0.007
05:00 PM - 06:00 PM	0.011	0.010	0.012	0.010	0.012	0.010	0.006
06:00 PM - 07:00 PM	0.004	0.009	0.011	0.012	0.012	0.014	0.009
07:00 PM - 08:00 PM	0.006	0.009	0.011	0.013	0.011	0.012	0.009
08:00 PM - 09:00 PM	0.016	0.011	0.009	0.011	0.011	0.009	0.009
09:00 PM - 10:00 PM	0.006	0.012	0.008	0.013	0.012	0.011	0.020
10:00 PM - 11:00 PM	0.004	0.009	0.009	0.012	0.013	0.015	0.015
11:00 PM - 12:00 AM	0.011	0.010	0.006	0.010	0.022	0.012	0.011
12:00 AM - 01:00 AM	0.007	0.021	0.010	0.013	0.019	0.014	0.014
01:00 AM - 02:00 AM	0.005	0.019	0.012	0.012	0.018	0.016	0.007
02:00 AM - 03:00 AM	0.007	0.022	0.019	0.015	0.020	0.018	0.004
03:00 AM - 04:00 AM	0.009	0.018	0.016	0.016	0.018	0.020	0.008
04:00 AM - 05:00 AM	0.014	0.013	0.012	0.013	0.013	0.011	0.012
05:00 AM - 06:00 AM	0.016	0.010	0.010	0.009	0.008	0.010	0.012
06:00 AM - 07:00 AM	0.011	0.006	0.006	0.009	0.006	0.011	0.013
07:00 AM - 08:00 AM	<0.001	0.006	0.005	0.014	0.005	0.012	0.008
08:00 AM - 09:00 AM	0.005	0.007	0.006	0.006	0.005	0.008	0.007
Average	0.007	0.010	0.011	0.011	0.012	0.011	0.011
1hr - Maximum	0.016	0.022	0.019	0.016	0.022	0.020	0.028
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

Approved by

Saranya C.

Saranya Chalerthamrong
Scientist (4)

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443457

Date Received : Jun 03, 2024

Date Reported : Jun 08, 2024

Report Number: 3018295-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงเรียนพนาสาคัดหน้าศาลพระนาค (GPS 47P 0736199, 1443916)						
Parameter	Nitrogen dioxide (ppm)						
Measurement Date	May 24, 2024 - May 31, 2024						
Measurement by	Satcha Phetsawaeng						
	2443457-8	2443457-9	2443457-10	2443457-11	2443457-12	2443457-13	2443457-14
Time	May 24, 2024	May 25, 2024	May 26, 2024	May 27, 2024	May 28, 2024	May 29, 2024	May 30, 2024
10:00 AM - 11:00 AM	0.004	0.002	0.006	0.006	0.004	0.004	0.004
11:00 AM - 12:00 PM	0.002	0.002	0.007	0.007	0.007	0.005	0.004
12:00 PM - 01:00 PM	0.002	0.002	0.007	0.005	0.007	0.004	0.004
01:00 PM - 02:00 PM	<0.001	0.001	0.007	0.004	0.004	0.005	0.004
02:00 PM - 03:00 PM	<0.001	0.003	0.006	0.002	0.002	0.006	0.001
03:00 PM - 04:00 PM	0.002	0.003	0.003	0.005	0.002	0.008	0.002
04:00 PM - 05:00 PM	0.002	0.004	0.002	0.008	0.003	0.010	0.008
05:00 PM - 06:00 PM	0.002	0.011	0.006	0.008	0.004	0.005	0.017
06:00 PM - 07:00 PM	0.007	0.011	0.012	0.006	0.003	0.005	0.020
07:00 PM - 08:00 PM	0.009	0.015	0.006	0.005	0.004	0.005	0.001
08:00 PM - 09:00 PM	0.006	0.010	0.005	0.007	0.006	0.005	0.001
09:00 PM - 10:00 PM	0.005	0.004	0.006	0.007	0.006	0.011	0.002
10:00 PM - 11:00 PM	0.005	0.003	0.005	0.007	0.004	0.012	0.003
11:00 PM - 12:00 AM	0.007	0.004	0.006	0.004	0.005	0.007	0.004
12:00 AM - 01:00 AM	0.007	0.004	0.006	0.002	0.004	0.007	0.003
01:00 AM - 02:00 AM	0.008	0.008	0.006	0.004	0.003	0.009	0.002
02:00 AM - 03:00 AM	0.005	0.006	0.006	0.006	0.005	0.017	0.004
03:00 AM - 04:00 AM	0.006	0.004	0.005	0.011	0.005	0.017	0.004
04:00 AM - 05:00 AM	0.006	0.004	0.005	0.017	0.014	0.006	0.002
05:00 AM - 06:00 AM	0.013	0.004	0.005	0.014	0.004	0.006	0.002
06:00 AM - 07:00 AM	0.036	0.006	0.006	0.003	0.005	0.006	0.001
07:00 AM - 08:00 AM	0.031	0.006	0.006	0.004	0.009	0.007	0.002
08:00 AM - 09:00 AM	0.015	0.006	0.017	0.017	0.022	0.009	0.002
09:00 AM - 10:00 AM	0.005	0.002	0.007	0.010	0.005	0.006	0.002
Average	0.008	0.005	0.006	0.007	0.006	0.008	0.004
1hr - Maximum	0.036	0.015	0.017	0.017	0.022	0.017	0.020
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

Approved by

Saranya C.

Saranya Chalerthamrong
Scientist (4)

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Phrak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443457

Date Received : Jun 03, 2024

Date Reported : Jun 08, 2024

Report Number: 3018296-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงงานผลิตยาง(ทางหลวงแผ่นดิน) (GPS 47P 0739512, 1447941) Nitrogen dioxide (ppm)						
Measurement Date	May 24, 2024 - May 31, 2024						
Measurement by	Satcha Phetsawaeng						
Time	2443457-15 May 24, 2024	2443457-16 May 25, 2024	2443457-17 May 26, 2024	2443457-18 May 27, 2024	2443457-19 May 28, 2024	2443457-20 May 29, 2024	2443457-21 May 30, 2024
11:00 AM - 12:00 PM	0.010	0.011	0.009	0.011	0.013	0.012	0.009
12:00 PM - 01:00 PM	0.012	0.010	0.010	0.014	0.017	0.010	0.010
01:00 PM - 02:00 PM	0.009	0.009	0.003	0.002	0.003	0.003	0.011
02:00 PM - 03:00 PM	0.003	0.004	0.003	0.002	0.003	0.004	0.004
03:00 PM - 04:00 PM	0.002	0.002	0.003	0.002	0.002	0.003	0.003
04:00 PM - 05:00 PM	0.009	0.002	0.002	0.010	0.003	0.015	0.003
05:00 PM - 06:00 PM	0.008	0.012	0.009	0.011	0.015	0.018	0.012
06:00 PM - 07:00 PM	0.006	0.010	0.010	0.014	0.014	0.015	0.014
07:00 PM - 08:00 PM	0.004	0.010	0.009	0.004	0.010	0.004	0.011
08:00 PM - 09:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.003
09:00 PM - 10:00 PM	0.002	0.004	0.004	0.006	0.003	0.004	0.003
10:00 PM - 11:00 PM	0.002	0.003	0.004	0.009	0.003	0.004	0.003
11:00 PM - 12:00 AM	0.003	0.003	0.004	0.010	0.002	0.004	0.003
12:00 AM - 01:00 AM	0.002	0.004	0.004	0.007	0.002	0.005	0.003
01:00 AM - 02:00 AM	0.004	0.003	0.004	0.005	0.003	0.004	0.003
02:00 AM - 03:00 AM	0.003	0.003	0.004	0.005	0.004	0.003	0.004
03:00 AM - 04:00 AM	0.002	0.003	0.005	0.004	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.004	0.003	0.003	0.003	0.004	0.003	0.004
05:00 AM - 06:00 AM	0.004	0.003	0.003	0.003	0.009	0.003	0.005
06:00 AM - 07:00 AM	0.009	0.009	0.009	0.012	0.009	0.014	0.015
07:00 AM - 08:00 AM	0.010	0.011	0.010	0.014	0.013	0.015	0.015
08:00 AM - 09:00 AM	0.008	0.010	0.008	0.009	0.010	0.018	0.012
09:00 AM - 10:00 AM	0.004	0.003	0.003	0.004	0.004	0.003	0.003
10:00 AM - 11:00 AM	0.004	0.004	0.003	0.002	0.003	0.003	0.010
Average	0.005	0.006	0.006	0.007	0.007	0.007	0.007
1hr - Maximum	0.012	0.012	0.010	0.014	0.017	0.018	0.015
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Saranya C.
Saranya Chalermtamrong
Scientist (4)

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Phrak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443457

Date Received : Jun 03, 2024

Date Reported : Jun 08, 2024

Report Number: 3018309-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงงานผลิตยาง(ทางหลวงแผ่นดิน) (GPS 47P 0738170, 1442937) Nitrogen dioxide (ppm)						
Measurement Date	May 24, 2024 - May 31, 2024						
Measurement by	Satcha Phetsawaeng						
Time	2443457-22 May 24, 2024	2443457-23 May 25, 2024	2443457-24 May 26, 2024	2443457-25 May 27, 2024	2443457-26 May 28, 2024	2443457-27 May 29, 2024	2443457-28 May 30, 2024
12:00 PM - 01:00 PM	0.007	0.013	0.004	0.008	0.003	0.008	0.003
01:00 PM - 02:00 PM	0.005	0.006	0.004	0.004	0.004	0.007	0.004
02:00 PM - 03:00 PM	0.007	0.009	0.004	0.004	0.004	0.006	0.004
03:00 PM - 04:00 PM	0.008	0.004	0.008	0.007	0.013	0.006	0.006
04:00 PM - 05:00 PM	0.003	0.002	0.006	0.006	0.003	0.003	0.015
05:00 PM - 06:00 PM	0.003	0.002	0.002	0.002	0.003	0.002	0.007
06:00 PM - 07:00 PM	0.004	0.004	0.003	0.009	0.002	0.005	0.007
07:00 PM - 08:00 PM	0.004	0.004	0.003	0.003	0.001	0.005	0.006
08:00 PM - 09:00 PM	0.005	0.004	0.003	0.003	0.001	0.004	0.008
09:00 PM - 10:00 PM	0.009	0.005	0.003	0.003	0.002	0.004	0.014
10:00 PM - 11:00 PM	0.006	0.004	0.003	0.003	0.005	0.004	0.010
11:00 PM - 12:00 AM	0.007	0.004	0.003	0.004	0.005	0.006	0.008
12:00 AM - 01:00 AM	0.005	0.005	0.004	0.004	0.002	0.004	0.007
01:00 AM - 02:00 AM	0.006	0.005	0.004	0.004	0.002	0.007	0.007
02:00 AM - 03:00 AM	0.006	0.004	0.003	0.003	0.003	0.003	0.007
03:00 AM - 04:00 AM	0.005	0.003	0.003	0.003	0.003	0.002	0.007
04:00 AM - 05:00 AM	0.004	0.005	0.003	0.002	0.004	0.004	0.012
05:00 AM - 06:00 AM	0.010	0.009	0.007	0.005	0.005	0.007	0.017
06:00 AM - 07:00 AM	0.012	0.010	0.008	0.006	0.009	0.008	0.015
07:00 AM - 08:00 AM	0.010	0.008	0.008	0.005	0.005	0.006	0.008
08:00 AM - 09:00 AM	0.008	0.008	0.006	0.004	0.002	0.003	0.006
09:00 AM - 10:00 AM	0.004	0.006	0.004	0.004	0.002	0.005	0.008
10:00 AM - 11:00 AM	0.004	0.004	0.002	0.003	0.003	0.004	0.007
11:00 AM - 12:00 PM	0.009	0.005	0.006	0.004	0.005	0.003	0.006
Average	0.006	0.006	0.004	0.004	0.004	0.005	0.008
1hr - Maximum	0.012	0.028	0.008	0.009	0.013	0.008	0.017
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

Approved by

Saranya C.
Saranya Chalermtamrong
Scientist (4)

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443458

Date Received : Jun 03, 2024

Date Reported : Jun 08, 2024

Report Number: 2969266-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงเรียนนาเกลือ (GPS 47P 0735497, 1445317) Sulfur Dioxide (ppm)						
Parameter							
Measurement Date	May 24, 2024 - May 31, 2024						
Measurement by	Satcha Phetsawaeng						
	2443458-1	2443458-2	2443458-3	2443458-4	2443458-5	2443458-6	2443458-7
Time	May 24, 2024	May 25, 2024	May 26, 2024	May 27, 2024	May 28, 2024	May 29, 2024	May 30, 2024
09:00 AM - 10:00 AM	0.003	0.004	0.003	0.003	0.003	0.003	0.003
10:00 AM - 11:00 AM	0.003	0.004	0.003	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.003	0.004	0.003	0.003	0.003	0.003	0.003
12:00 PM - 01:00 PM	0.003	0.004	0.003	0.003	0.003	0.003	0.003
01:00 PM - 02:00 PM	0.003	0.004	0.003	0.003	0.003	0.003	0.003
02:00 PM - 03:00 PM	0.004	0.004	0.003	0.003	0.003	0.003	0.003
03:00 PM - 04:00 PM	0.004	0.004	0.003	0.003	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.004	0.004	0.003	0.003	0.003	0.003	0.003
05:00 PM - 06:00 PM	0.004	0.004	0.003	0.003	0.003	0.003	0.003
06:00 PM - 07:00 PM	0.004	0.004	0.003	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
09:00 PM - 10:00 PM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
10:00 PM - 11:00 PM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
12:00 AM - 01:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
07:00 AM - 08:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
Average	0.004	0.003	0.003	0.003	0.003	0.003	0.003
1hr - Maximum	0.004	0.004	0.003	0.003	0.003	0.003	0.003
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

Approved by

Saranya C.

Saranya Chalemthamrong
Scientist (4)

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443458

Date Received : Jun 03, 2024

Date Reported : Jun 08, 2024

Report Number: 3018297-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงเรียนนาเกลือ (GPS 47P 0738199, 1443916) Sulfur Dioxide (ppm)						
Parameter							
Measurement Date	May 24, 2024 - May 31, 2024						
Measurement by	Satcha Phetsawaeng						
	2443458-8	2443458-9	2443458-10	2443458-11	2443458-12	2443458-13	2443458-14
Time	May 24, 2024	May 25, 2024	May 26, 2024	May 27, 2024	May 28, 2024	May 29, 2024	May 30, 2024
10:00 AM - 11:00 AM	0.002	0.003	0.002	0.002	0.002	0.002	0.004
11:00 AM - 12:00 PM	0.001	0.002	0.002	0.002	0.002	0.002	0.005
12:00 PM - 01:00 PM	0.001	0.002	0.002	0.002	0.002	0.002	0.004
01:00 PM - 02:00 PM	0.001	0.002	0.002	0.002	0.002	0.002	0.003
02:00 PM - 03:00 PM	0.001	0.003	0.002	0.002	0.002	0.002	0.004
03:00 PM - 04:00 PM	0.001	0.003	0.002	0.002	0.002	0.002	0.004
04:00 PM - 05:00 PM	0.001	0.003	0.003	0.002	0.002	0.002	0.003
05:00 PM - 06:00 PM	0.001	0.003	0.002	0.002	0.002	0.002	0.002
06:00 PM - 07:00 PM	0.001	0.002	0.002	0.002	0.002	0.002	0.002
07:00 PM - 08:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
10:00 PM - 11:00 PM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
11:00 PM - 12:00 AM	0.002	0.004	0.002	0.002	0.002	0.002	0.002
12:00 AM - 01:00 AM	0.002	0.005	0.002	0.002	0.002	0.002	0.002
01:00 AM - 02:00 AM	0.002	0.003	0.002	0.002	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.002	0.003	0.002	0.002	0.002	0.002	0.002
03:00 AM - 04:00 AM	0.002	0.003	0.002	0.002	0.002	0.002	0.002
04:00 AM - 05:00 AM	0.002	0.003	0.002	0.002	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.002	0.003	0.002	0.002	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.002	0.003	0.002	0.002	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.003	0.003	0.002	0.002	0.002	0.002	0.002
08:00 AM - 09:00 AM	0.003	0.002	0.003	0.002	0.002	0.003	0.003
09:00 AM - 10:00 AM	0.003	0.002	0.003	0.002	0.002	0.003	0.003
Average	0.002	0.003	0.002	0.002	0.002	0.002	0.003
1hr - Maximum	0.003	0.005	0.003	0.002	0.002	0.003	0.005
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

Approved by

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Saranya Chalemthamrong
Scientist (4)

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 2443458
Date Received : Jun 03, 2024
Date Reported : Jun 08, 2024
Report Number: 3018298-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงสีน้ำตาลทราย(ทางรถไฟเดิม) (GPS 47P 0739512, 1447941) Sulfur Dioxide (ppm)						
Measurement Date	May 24, 2024 - May 31, 2024						
Measurement by	Satcha Phetsawaeng						
Time	2443458-15 May 24, 2024	2443458-16 May 25, 2024	2443458-17 May 26, 2024	2443458-18 May 27, 2024	2443458-19 May 28, 2024	2443458-20 May 30, 2024	2443458-21 May 30, 2024
11:00 AM - 12:00 PM	0.004	0.003	0.004	0.004	0.004	0.004	0.004
12:00 PM - 01:00 PM	0.004	0.003	0.004	0.004	0.004	0.004	0.004
01:00 PM - 02:00 PM	0.004	0.003	0.003	0.004	0.003	0.004	0.004
02:00 PM - 03:00 PM	0.004	0.004	0.003	0.003	0.003	0.004	0.004
03:00 PM - 04:00 PM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
05:00 PM - 06:00 PM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
06:00 PM - 07:00 PM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.004	0.003	0.003	0.003	0.004	0.003	0.004
09:00 PM - 10:00 PM	0.004	0.003	0.003	0.004	0.004	0.003	0.004
10:00 PM - 11:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
11:00 PM - 12:00 AM	0.004	0.004	0.004	0.004	0.003	0.004	0.004
12:00 AM - 01:00 AM	0.004	0.003	0.004	0.004	0.003	0.004	0.003
01:00 AM - 02:00 AM	0.004	0.004	0.004	0.004	0.003	0.004	0.003
02:00 AM - 03:00 AM	0.004	0.003	0.004	0.003	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.004	0.003	0.004	0.003	0.003	0.004	0.003
04:00 AM - 05:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
07:00 AM - 08:00 AM	0.004	0.003	0.003	0.003	0.003	0.004	0.004
08:00 AM - 09:00 AM	0.004	0.003	0.003	0.004	0.003	0.003	0.004
09:00 AM - 10:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
10:00 AM - 11:00 AM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
Average	0.004	0.003	0.003	0.003	0.003	0.003	0.003
1hr - Maximum	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

Approved by

Saranya C.
Saranya Chalerthamrong
Scientist (4)

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 2443458
Date Received : Jun 03, 2024
Date Reported : Jun 08, 2024
Report Number: 3018299-1

Page 1 of 1

Sample Description	Air Quality						
Location	โรงสีน้ำตาลทราย(ทางรถไฟเดิม) (GPS 47P 0738170, 1442937) Sulfur Dioxide (ppm)						
Measurement Date	May 24, 2024 - May 31, 2024						
Measurement by	Satcha Phetsawaeng						
Time	2443458-22 May 24, 2024	2443458-23 May 25, 2024	2443458-24 May 26, 2024	2443458-25 May 27, 2024	2443458-26 May 28, 2024	2443458-27 May 29, 2024	2443458-28 May 30, 2024
12:00 PM - 01:00 PM	0.003	0.004	0.003	0.003	0.003	0.003	0.003
01:00 PM - 02:00 PM	0.003	0.004	0.003	0.003	0.003	0.003	0.003
02:00 PM - 03:00 PM	0.003	0.004	0.003	0.003	0.003	0.003	0.003
03:00 PM - 04:00 PM	0.003	0.004	0.003	0.003	0.003	0.003	<0.001
04:00 PM - 05:00 PM	0.003	0.004	0.003	0.003	0.003	0.003	0.003
05:00 PM - 06:00 PM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
06:00 PM - 07:00 PM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.003	0.005	0.004	0.003	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
09:00 PM - 10:00 PM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
10:00 PM - 11:00 PM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
12:00 AM - 01:00 AM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.003	0.004	0.003	0.003	0.003	0.003	0.003
07:00 AM - 08:00 AM	0.003	0.004	0.004	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.003	0.004	0.004	0.003	0.003	0.003	0.001
09:00 AM - 10:00 AM	0.004	0.004	0.004	0.003	0.003	0.003	0.003
10:00 AM - 11:00 AM	0.004	0.004	0.003	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.004	0.003	0.003	0.003	0.003	0.003	0.003
Average	0.003	0.004	0.004	0.003	0.003	0.003	0.003
1hr - Maximum	0.004	0.005	0.004	0.003	0.003	0.003	0.003
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).
Reference Method : US EPA Method Part 53 and 58

Approved by

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Saranya Chalerthamrong
Scientist (4)

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443459

Date Received : Jun 03, 2024

Date Reported : Jun 06, 2024

Report Number : 2969267-1

Sample Number : 2443459-1 to 7
Parameter : Wind Speed / Wind Direction
Location : โรงสีมันสำปะหลัง (GPS 47P 0735497, 1445317)
Sampling Date : May 24 - May 31, 2024
Sampling by : Satcha Phetsawaeng

Time	May 24 - May 25, 2024			May 25 - May 26, 2024			May 26 - May 27, 2024			May 27 - May 28, 2024			May 28 - May 29, 2024			May 29 - May 30, 2024			May 30 - May 31, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
09:00 AM - 10:00 AM	0.2	-	-	0.1	-	-	0.4	187.0	S	0.7	148.0	SSE	0.8	172.0	S	0.7	82.0	E	0.7	85.0	E
10:00 AM - 11:00 AM	1.0	197.0	SSW	1.6	205.0	SSW	0.2	-	-	1.2	57.0	ENE	1.4	173.0	S	1.4	162.0	SSE	0.6	167.0	SSE
11:00 AM - 12:00 PM	0.6	213.0	SSW	1.0	182.0	S	0.1	-	-	0.6	54.0	NE	1.5	73.0	ENE	1.6	145.0	SE	0.9	74.0	ENE
12:00 PM - 01:00 PM	0.1	-	-	2.0	184.0	S	0.4	186.0	S	0.6	72.0	ENE	1.1	60.0	ENE	1.4	92.0	E	0.7	59.0	ENE
01:00 PM - 02:00 PM	1.0	167.0	SSE	0.3	189.0	S	0.4	153.0	SSE	0.4	71.0	ENE	0.8	103.0	ESE	0.5	73.0	ENE	1.1	59.0	ENE
02:00 PM - 03:00 PM	0.3	171.0	S	2.0	185.0	S	0.2	-	-	0.6	69.0	ENE	0.3	189.0	S	0.8	62.0	ENE	0.2	-	-
03:00 PM - 04:00 PM	1.0	170.0	S	0.5	73.0	ENE	2.0	174.0	S	1.0	69.0	ENE	0.1	-	-	1.8	141.0	SE	1.0	196.0	SSW
04:00 PM - 05:00 PM	1.0	172.0	S	1.0	72.0	ENE	2.0	183.0	S	0.4	172.0	S	0.6	182.0	S	0.3	60.0	ENE	1.7	145.0	SE
05:00 PM - 06:00 PM	1.0	173.0	S	2.0	179.0	S	2.0	183.0	S	1.0	181.0	S	1.0	172.0	S	0.2	-	-	0.2	-	-
06:00 PM - 07:00 PM	2.0	174.0	S	0.1	-	-	0.7	216.0	SW	2.0	189.0	S	2.0	183.0	S	0.0	-	-	1.0	179.0	S
07:00 PM - 08:00 PM	1.0	173.0	S	2.0	195.0	SSW	2.0	145.0	SE	1.0	189.0	S	3.0	173.0	S	0.2	-	-	2.0	185.0	S
08:00 PM - 09:00 PM	2.0	194.0	SSW	3.0	197.0	SSW	1.3	150.0	SSE	2.0	190.0	S	2.0	179.0	S	1.0	189.0	S	0.0	-	-
09:00 PM - 10:00 PM	2.0	194.0	SSW	3.0	198.0	SSW	1.2	165.0	SSE	3.0	189.0	S	1.0	145.0	SE	1.0	189.0	S	0.8	224.0	SW
10:00 PM - 11:00 PM	1.0	195.0	SSW	2.0	200.0	SSW	2.1	127.0	SE	3.0	213.0	SSW	2.0	145.0	SE	2.0	188.0	S	1.0	232.0	SW
11:00 PM - 12:00 AM	2.0	194.0	SSW	2.0	200.0	SSW	2.0	180.0	S	3.0	213.0	SSW	1.0	146.0	SE	2.0	190.0	S	1.0	231.0	SW
12:00 AM - 01:00 AM	2.0	194.0	SSW	1.0	201.0	SSW	2.0	181.0	S	1.0	215.0	SW	1.0	148.0	SSE	2.0	190.0	S	1.0	230.0	SW
01:00 AM - 02:00 AM	2.0	194.0	SSW	1.0	202.0	SSW	1.0	180.0	S	1.0	215.0	SW	1.0	179.0	S	2.0	188.0	S	1.0	200.0	SSW
02:00 AM - 03:00 AM	1.0	194.0	SSW	2.0	198.0	SSW	2.0	182.0	S	2.0	213.0	SSW	1.0	179.0	S	3.0	188.0	S	2.0	201.0	SSW
03:00 AM - 04:00 AM	1.0	194.0	SSW	2.0	202.0	SSW	3.0	185.0	S	2.0	213.0	SSW	2.0	179.0	S	3.0	188.0	S	2.0	188.0	S
04:00 AM - 05:00 AM	1.0	193.0	SSW	1.0	199.0	SSW	3.0	183.0	S	1.0	213.0	SSW	2.0	179.0	S	3.0	188.0	S	2.0	227.0	SW
05:00 AM - 06:00 AM	2.0	176.0	S	1.0	171.0	S	2.0	200.0	SSW	1.0	213.0	SSW	2.0	179.0	S	3.0	188.0	S	2.0	228.0	SW
06:00 AM - 07:00 AM	3.0	186.0	S	1.0	165.0	SSE	1.0	204.0	SSW	2.0	179.0	S	0.4	90.0	E	3.0	82.0	E	2.0	204.0	SSW
07:00 AM - 08:00 AM	1.0	182.0	S	2.0	162.0	SSE	1.0	163.0	SSE	0.6	87.0	E	0.9	71.0	ENE	0.6	57.0	ENE	1.0	128.0	SE
08:00 AM - 09:00 AM	0.1	-	-	0.2	-	-	0.5	171.0	S	0.9	89.0	E	0.3	68.0	ENE	2.6	79.0	E	1.2	129.0	SE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jitranont
Assistant General Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

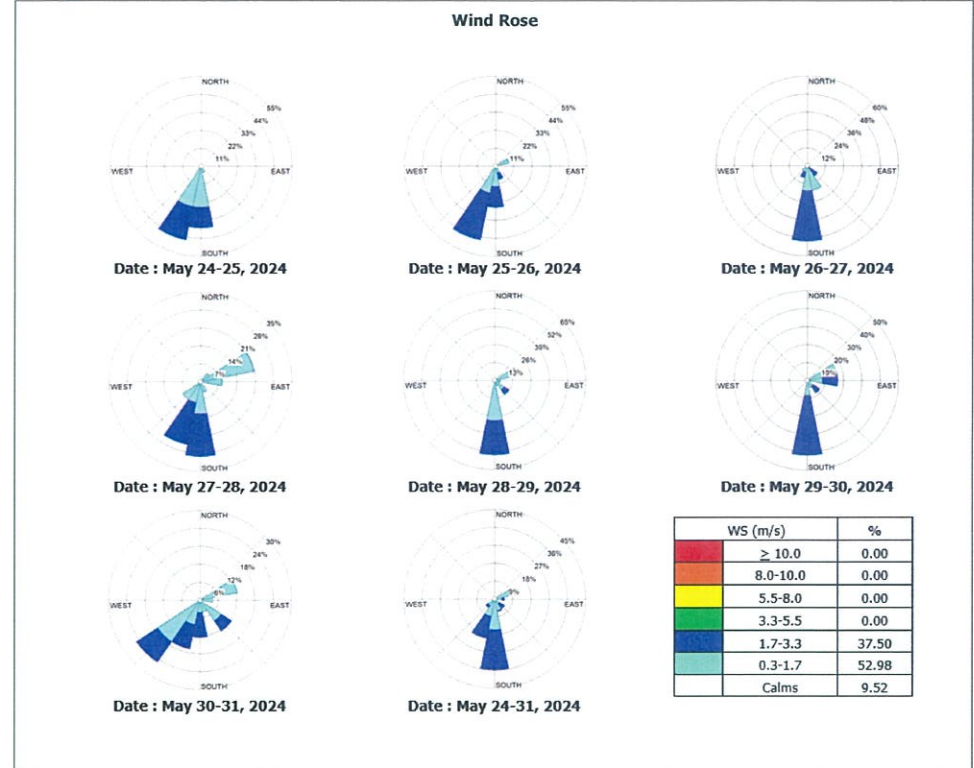
Project Location : GTS3

Lot ID: 2443459

Date Received : Jun 03, 2024

Date Reported : Jun 06, 2024

Report Number : 2969267-1



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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443459

Date Received :Jun 03, 2024

Date Reported :Jun 06, 2024

Report Number :2969267-1

Page 1 of 2

Sample Number 2443459-8 to 14

Parameter Wind Speed / Wind Direction

Location โรงเรียนชุมชนวัดบ้านดง (GPS 47P 0738199, 1443916)

Sampling Date May 24 - May 31, 2024

Sampling by Satcha Phetsawaeng

Time	May 24 - May 25, 2024			May 25 - May 26, 2024			May 26 - May 27, 2024			May 27 - May 28, 2024			May 28 - May 29, 2024			May 29 - May 30, 2024			May 30 - May 31, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
10:00 AM - 11:00 AM	3.4	228.0	SW	2.3	138.0	SE	4.5	145.0	SE	4.4	134.0	SE	3.2	120.0	ESE	4.6	119.0	ESE	3.2	119.0	ESE
11:00 AM - 12:00 PM	3.3	210.0	SSW	4.9	132.0	SE	2.3	141.0	SE	3.2	130.0	SE	4.6	118.0	ESE	2.3	117.0	ESE	3.1	114.0	ESE
12:00 PM - 01:00 PM	3.2	196.0	SSW	1.5	123.0	ESE	2.4	141.0	SE	3.3	122.0	ESE	3.9	112.0	ESE	2.4	114.0	ESE	4.2	113.0	ESE
01:00 PM - 02:00 PM	3.4	166.0	SSE	3.2	154.0	SSE	4.6	144.0	SE	3.7	112.0	ESE	4.2	108.0	ESE	4.8	112.0	ESE	3.5	109.0	ESE
02:00 PM - 03:00 PM	3.6	181.0	S	1.9	157.0	SSE	4.7	140.0	SE	3.2	106.0	ESE	3.5	111.0	ESE	3.9	108.0	ESE	3.4	106.0	ESE
03:00 PM - 04:00 PM	3.2	171.0	S	2.3	142.0	SE	4.2	140.0	SE	3.0	116.0	ESE	3.2	111.0	ESE	3.0	108.0	ESE	2.4	109.0	ESE
04:00 PM - 05:00 PM	3.5	165.0	SSE	2.6	160.0	SSE	4.1	144.0	SE	2.9	113.0	ESE	3.3	113.0	ESE	2.6	111.0	ESE	3.9	109.0	ESE
05:00 PM - 06:00 PM	2.9	174.0	S	3.5	160.0	SSE	2.9	148.0	SSE	2.2	123.0	ESE	3.0	114.0	ESE	3.6	112.0	ESE	3.2	114.0	ESE
06:00 PM - 07:00 PM	2.4	175.0	S	1.8	174.0	S	2.5	160.0	SSE	2.7	124.0	SE	2.5	118.0	ESE	1.8	120.0	ESE	3.5	120.0	ESE
07:00 PM - 08:00 PM	1.6	174.0	S	1.8	179.0	S	0.0	-	-	2.8	129.0	SE	3.1	122.0	ESE	2.1	124.0	SE	3.5	126.0	SE
08:00 PM - 09:00 PM	1.5	179.0	S	2.6	182.0	S	4.1	162.0	SSE	2.9	135.0	SE	2.7	126.0	SE	2.4	127.0	SE	2.3	133.0	SE
09:00 PM - 10:00 PM	0.0	-	-	4.0	175.0	S	2.9	156.0	SSE	2.3	143.0	SE	1.9	132.0	SE	2.5	131.0	SE	4.3	141.0	SE
10:00 PM - 11:00 PM	0.0	-	-	3.0	182.0	S	0.6	171.0	S	1.8	147.0	SSE	1.8	137.0	SE	3.1	138.0	SE	3.4	140.0	SE
11:00 PM - 12:00 AM	0.0	-	-	1.3	197.0	SSW	0.6	170.0	S	1.5	156.0	SSE	2.2	144.0	SE	2.8	143.0	SE	1.2	152.0	SSW
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.9	160.0	SSE	2.6	142.0	SE	2.5	149.0	SSE	1.7	157.0	SSE
01:00 AM - 02:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.7	162.0	SSE	2.3	147.0	SSE	2.6	155.0	SSE	2.4	160.0	SSE
02:00 AM - 03:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.7	149.0	SSE	1.7	158.0	SSE	2.5	159.0	SSE
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.8	145.0	SE	1.5	163.0	SSE	2.2	166.0	SSE
04:00 AM - 05:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	1.6	168.0	SSE	1.2	142.0	SE	1.4	166.0	SSE	1.3	174.0	S
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	1.7	174.0	S	1.2	152.0	SSE	1.6	170.0	S	0.0	-	-
06:00 AM - 07:00 AM	2.2	171.0	S	1.9	197.0	SSW	0.0	-	-	1.6	176.0	S	1.3	158.0	SSE	1.7	162.0	SSE	1.4	169.0	S
07:00 AM - 08:00 AM	3.9	151.0	SSE	4.2	174.0	S	3.2	184.0	S	2.8	169.0	S	1.8	150.0	SSE	2.2	172.0	S	2.5	172.0	S
08:00 AM - 09:00 AM	3.9	142.0	SE	4.6	159.0	SSE	3.4	170.0	S	2.3	148.0	SSE	4.1	142.0	SE	3.4	142.0	SE	1.2	145.0	SE
09:00 AM - 10:00 AM	4.5	136.0	SE	3.7	146.0	SE	3.6	154.0	SSE	3.8	130.0	SE	3.9	127.0	SE	4.0	129.0	SE	1.3	146.0	SE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

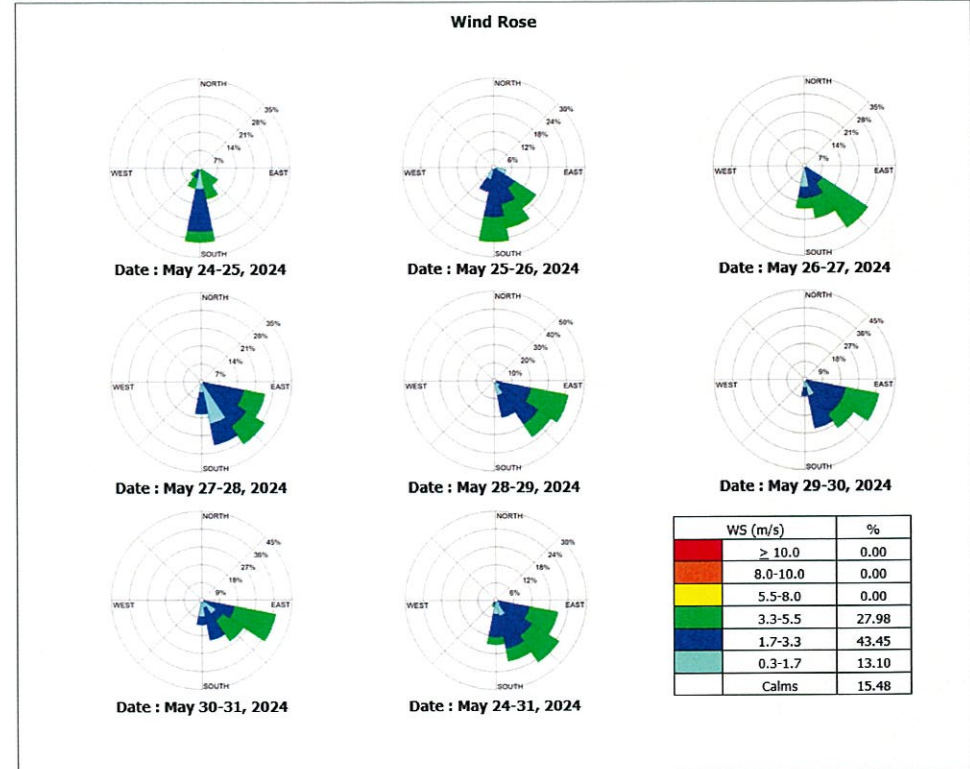
Lot ID: 2443459

Date Received :Jun 03, 2024

Date Reported :Jun 06, 2024

Report Number :2969267-1

Page 2 of 2



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Assistant General Manager

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Assistant General Manager



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443459

Date Received : Jun 03, 2024

Date Reported : Jun 06, 2024

Report Number : 2969267-1

Sample Number : 2443459-15 to 21
Parameter : Wind Speed / Wind Direction
Location : โรงเจิมหมันประเวศ (โรงเจิมหมันประเวศ) (GPS 47P 0739512, 1447941)
Sampling Date : May 24 - May 31, 2024
Sampling by : Satcha Phetsawaeng

Time	May 24 - May 25, 2024			May 25 - May 26, 2024			May 26 - May 27, 2024			May 27 - May 28, 2024			May 28 - May 29, 2024			May 29 - May 30, 2024			May 30 - May 31, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
11:00 AM - 12:00 PM	1.2	150.0	SSE	1.3	177.0	S	1.2	183.0	S	4.1	4.0	N	5.0	2.0	N	1.3	341.0	NNW	0.5	125.0	SE
12:00 PM - 01:00 PM	1.3	254.0	WSW	0.3	232.0	SW	1.2	248.0	WSW	5.4	206.0	SSW	3.8	78.0	ENE	1.2	359.0	N	1.1	123.0	ESE
01:00 PM - 02:00 PM	2.3	216.0	SW	1.4	322.0	NW	1.4	228.0	SW	4.4	249.0	WSW	3.9	351.0	N	1.2	256.0	WSW	1.2	145.0	SE
02:00 PM - 03:00 PM	2.1	146.0	SE	1.6	44.0	NE	0.2	-	-	3.5	151.0	SSE	3.1	254.0	WSW	4.0	249.0	WSW	0.8	145.0	SE
03:00 PM - 04:00 PM	0.8	225.0	SW	1.2	125.0	SE	2.3	211.0	SSW	3.8	210.0	SSW	3.7	275.0	W	3.2	232.0	SW	0.5	150.0	SSE
04:00 PM - 05:00 PM	1.3	233.0	SW	2.3	272.0	W	1.2	200.0	SSW	3.3	265.0	W	3.3	259.0	W	3.0	240.0	WSW	1.2	155.0	SSE
05:00 PM - 06:00 PM	1.5	212.0	SSW	0.5	259.0	W	1.2	270.0	W	2.8	229.0	SW	3.3	258.0	WSW	3.1	185.0	S	2.0	155.0	SSE
06:00 PM - 07:00 PM	1.2	157.0	SSE	2.3	175.0	S	1.0	243.0	WSW	3.3	243.0	WSW	4.2	169.0	S	2.2	203.0	SSW	1.9	180.0	S
07:00 PM - 08:00 PM	1.0	246.0	WSW	1.3	238.0	WSW	0.0	-	-	1.8	229.0	SW	3.5	233.0	SW	2.1	282.0	WNW	0.3	182.0	S
08:00 PM - 09:00 PM	1.0	288.0	WNW	1.4	230.0	SW	1.0	240.0	WSW	2.8	247.0	WSW	2.9	252.0	WSW	2.0	255.0	WSW	0.1	-	-
09:00 PM - 10:00 PM	1.0	290.0	WNW	0.4	233.0	SW	1.0	68.0	ENE	1.0	262.0	W	1.5	241.0	WSW	2.8	225.0	SW	0.7	130.0	SE
10:00 PM - 11:00 PM	2.0	290.0	WNW	1.3	210.0	SSW	1.0	147.0	SSE	2.1	265.0	W	2.0	240.0	WSW	2.5	232.0	SW	0.1	-	-
11:00 PM - 12:00 AM	2.0	290.0	WNW	1.5	211.0	SSW	0.1	-	-	2.5	267.0	W	1.6	283.0	WNW	1.6	291.0	WNW	0.3	134.0	SE
12:00 AM - 01:00 AM	2.0	290.0	WNW	1.0	207.0	SSW	0.5	155.0	SSE	2.0	267.0	W	1.4	211.0	SSW	1.3	220.0	SW	0.0	-	-
01:00 AM - 02:00 AM	1.0	291.0	WNW	1.0	210.0	SSW	1.2	153.0	SSE	2.0	265.0	W	1.3	226.0	SW	1.4	203.0	SSW	0.6	200.0	SSW
02:00 AM - 03:00 AM	1.0	291.0	WNW	2.0	208.0	SSW	2.3	155.0	SSE	1.2	266.0	W	1.0	229.0	SW	1.3	205.0	SSW	0.3	180.0	S
03:00 AM - 04:00 AM	1.0	291.0	WNW	2.0	210.0	SSW	1.3	153.0	SSE	2.0	265.0	W	0.6	227.0	SW	0.1	-	-	0.5	185.0	S
04:00 AM - 05:00 AM	3.0	246.0	WSW	1.0	206.0	SSW	2.0	153.0	SSE	2.0	266.0	W	2.3	228.0	SW	1.2	259.0	W	1.1	184.0	S
05:00 AM - 06:00 AM	3.0	245.0	WSW	2.0	207.0	SSW	2.0	153.0	SSE	2.0	266.0	W	1.1	228.0	SW	1.1	268.0	W	0.7	183.0	S
06:00 AM - 07:00 AM	3.0	228.0	SW	3.0	211.0	SSW	2.0	154.0	SSE	3.0	267.0	W	1.6	309.0	NW	1.2	269.0	W	2.3	150.0	SSE
07:00 AM - 08:00 AM	1.2	237.0	WSW	1.0	91.0	E	1.8	209.0	SSW	3.5	359.0	N	3.3	359.0	N	2.3	287.0	WNW	1.0	156.0	SSE
08:00 AM - 09:00 AM	3.0	142.0	SE	0.1	-	-	3.4	299.0	WNW	3.8	352.0	N	3.9	271.0	W	4.8	283.0	WNW	2.2	145.0	SE
09:00 AM - 10:00 AM	0.6	244.0	WSW	0.7	229.0	SW	4.9	291.0	WNW	3.4	37.0	NE	4.0	217.0	SW	4.8	52.0	NE	2.9	145.0	SE
10:00 AM - 11:00 AM	1.3	300.0	WNW	0.8	333.0	NNW	4.0	229.0	SW	4.0	238.0	WSW	2.3	282.0	WNW	0.6	176.0	S	1.2	146.0	SE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Assistant General Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

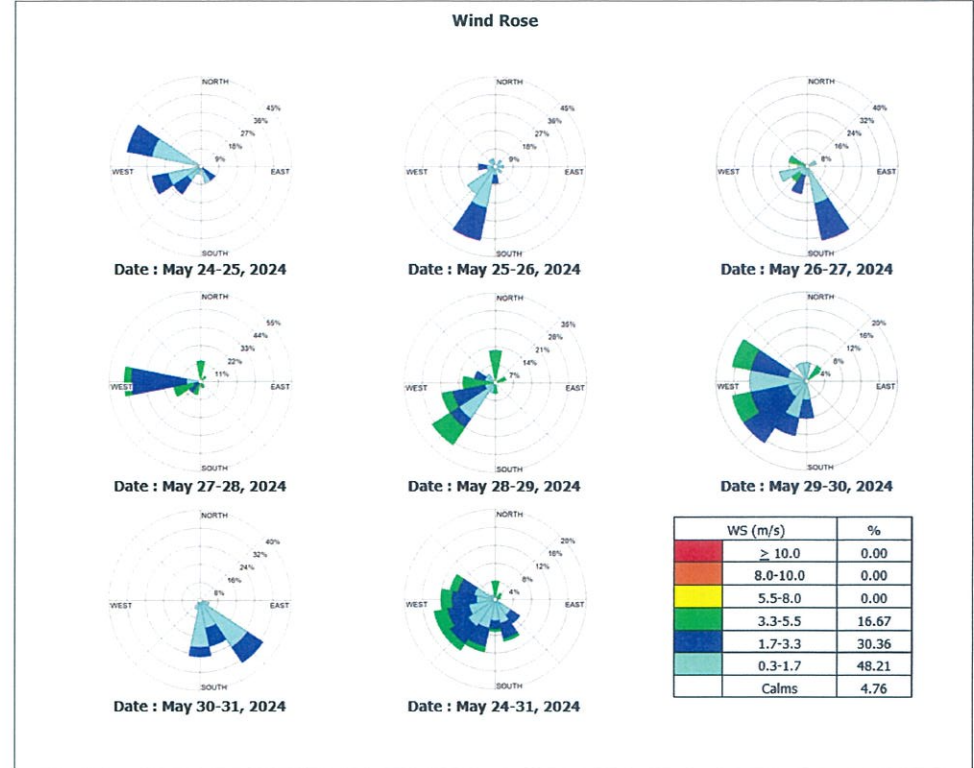
Project Location : GTS3

Lot ID: 2443459

Date Received : Jun 03, 2024

Date Reported : Jun 06, 2024

Report Number : 2969267-1



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Approved by

Sarayuth Jitranont
Assistant General Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443459

Date Received :Jun 03, 2024

Date Reported :Jun 06, 2024

Report Number :2969267-1

Sample Number 2443459-22 to 28

Parameter Wind Speed / Wind Direction

Location กรุงเทพมหานคร (GPS 47P 0738170, 1442937)

Sampling Date May 24 - May 31, 2024

Sampling by Satcha Phetsawaeng

Time	May 24 - May 25, 2024			May 25 - May 26, 2024			May 26 - May 27, 2024			May 27 - May 28, 2024			May 28 - May 29, 2024			May 29 - May 30, 2024			May 30 - May 31, 2024		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
12:00 PM - 01:00 PM	0.8	145.0	SE	0.8	169.0	S	1.2	227.0	SW	1.0	208.0	SSW	0.5	240.0	WSW	3.7	205.0	SSW	2.1	211.0	SSW
01:00 PM - 02:00 PM	0.3	186.0	S	1.4	228.0	SW	1.2	227.0	SW	0.6	197.0	SSW	0.1	-	-	1.5	229.0	SW	1.7	204.0	SSW
02:00 PM - 03:00 PM	2.0	161.0	SSE	0.6	198.0	SSW	1.3	228.0	SW	0.4	210.0	SSW	0.9	225.0	SW	1.2	228.0	SW	2.4	216.0	SW
03:00 PM - 04:00 PM	1.1	214.0	SW	0.3	208.0	SSW	0.2	-	-	1.0	223.0	SW	2.3	190.0	S	1.8	227.0	SW	2.8	232.0	SW
04:00 PM - 05:00 PM	0.3	179.0	S	1.0	244.0	WSW	1.0	215.0	SW	1.0	224.0	SW	2.3	181.0	S	1.6	227.0	SW	1.0	206.0	SSW
05:00 PM - 06:00 PM	1.0	209.0	SSW	0.4	194.0	SSW	0.5	185.0	S	0.3	232.0	SW	1.3	194.0	SSW	0.2	-	-	2.0	226.0	SW
06:00 PM - 07:00 PM	0.6	196.0	SSW	1.0	124.0	SE	1.0	186.0	S	2.0	217.0	SW	0.5	169.0	S	0.4	196.0	SSW	1.2	228.0	SW
07:00 PM - 08:00 PM	1.0	204.0	SSW	0.6	294.0	WNW	0.2	-	-	2.0	206.0	SSW	1.3	165.0	SSE	0.5	195.0	SSW	0.4	228.0	SW
08:00 PM - 09:00 PM	0.4	190.0	S	2.0	290.0	WNW	2.3	168.0	SSE	0.4	220.0	SW	1.4	164.0	SSE	0.5	197.0	SSW	0.9	226.0	SW
09:00 PM - 10:00 PM	1.0	145.0	SE	2.0	240.0	WSW	0.4	168.0	SSE	2.0	189.0	S	1.2	165.0	SSE	2.3	221.0	SW	1.8	227.0	SW
10:00 PM - 11:00 PM	1.0	165.0	SSE	1.0	253.0	WSW	1.3	125.0	SE	1.2	224.0	SW	1.3	164.0	SSE	0.9	175.0	S	0.6	180.0	S
11:00 PM - 12:00 AM	2.0	165.0	SSE	1.0	178.0	S	1.4	125.0	SE	1.3	217.0	SW	0.3	150.0	SSE	0.1	-	-	0.3	181.0	S
12:00 AM - 01:00 AM	1.0	166.0	SSE	1.3	208.0	SSW	1.6	42.0	NE	1.5	284.0	WNW	1.2	145.0	SE	2.3	172.0	S	1.2	182.0	S
01:00 AM - 02:00 AM	0.3	167.0	SSE	1.4	132.0	SE	1.0	13.0	NNE	1.0	251.0	WSW	1.3	146.0	SE	1.2	175.0	S	2.3	184.0	S
02:00 AM - 03:00 AM	1.0	173.0	S	1.2	183.0	S	1.0	13.0	NNE	2.0	250.0	WSW	0.3	165.0	SSE	1.4	172.0	S	1.2	180.0	S
03:00 AM - 04:00 AM	2.0	176.0	S	1.3	186.0	S	1.0	215.0	SW	3.0	250.0	WSW	0.6	165.0	SSE	1.2	174.0	S	2.3	180.0	S
04:00 AM - 05:00 AM	1.0	176.0	S	1.2	185.0	S	1.0	210.0	SSW	3.0	251.0	WSW	1.2	164.0	SSE	1.3	172.0	S	1.4	230.0	SW
05:00 AM - 06:00 AM	0.8	159.0	SSE	3.2	182.0	S	0.6	210.0	SSW	0.6	251.0	WSW	0.1	-	-	1.4	175.0	S	1.3	223.0	SW
06:00 AM - 07:00 AM	1.0	180.0	S	3.0	241.0	WSW	0.2	-	-	0.4	212.0	SSW	0.3	165.0	SSE	1.2	174.0	S	2.3	224.0	SW
07:00 AM - 08:00 AM	1.2	182.0	S	0.3	155.0	SSE	0.8	210.0	SSW	3.0	218.0	SW	0.7	127.0	SE	0.6	173.0	S	1.3	172.0	S
08:00 AM - 09:00 AM	1.0	205.0	SSW	1.0	212.0	SSW	0.1	-	-	3.0	211.0	SSW	0.4	219.0	SW	1.2	181.0	S	1.6	234.0	SW
09:00 AM - 10:00 AM	0.6	211.0	SSW	0.7	248.0	WSW	1.0	185.0	S	0.8	247.0	WSW	1.9	250.0	WSW	1.4	211.0	SSW	2.4	214.0	SW
10:00 AM - 11:00 AM	2.0	215.0	SW	0.2	-	-	1.6	188.0	S	1.0	242.0	WSW	1.6	272.0	W	1.3	174.0	S	1.6	215.0	SW
11:00 AM - 12:00 PM	0.4	105.0	ESE	0.6	228.0	SW	0.6	232.0	SW	1.1	241.0	WSW	2.3	213.0	SSW	1.6	207.0	SSW	1.7	156.0	SSE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrant
Assistant General Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

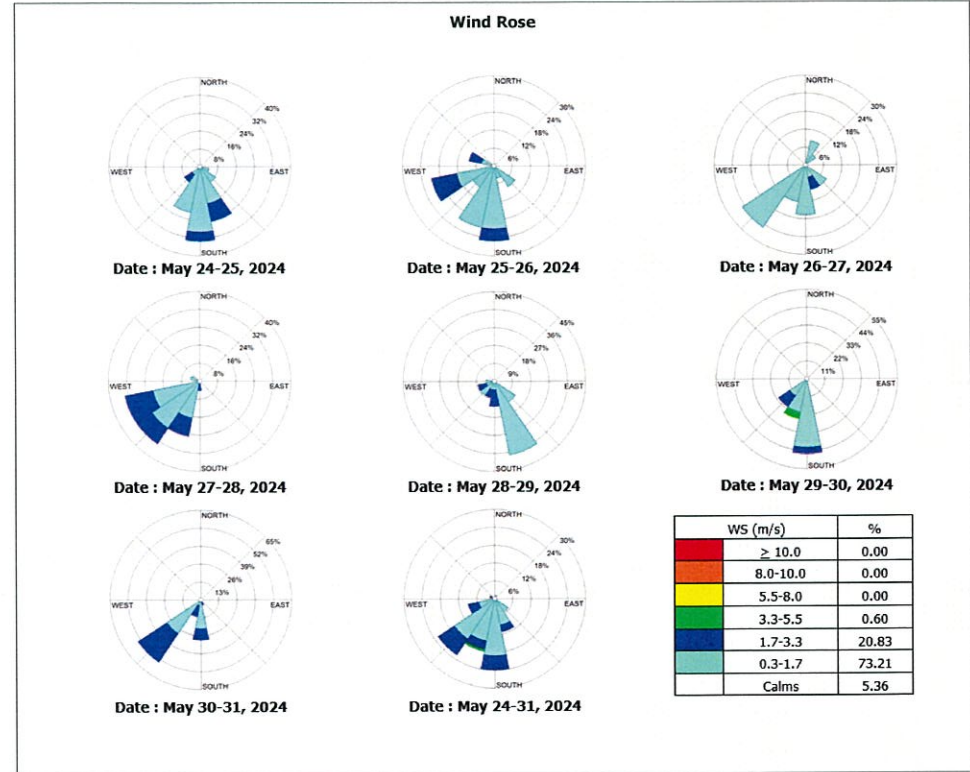
Lot ID: 2443459

Date Received :Jun 03, 2024

Date Reported :Jun 06, 2024

Report Number :2969267-1

Page 2 of 2



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ภาคผนวก ค-2

คุณภาพอากาศจากปล่องระบายอากาศ



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 2443955
Date Received : May 30, 2024
Date Reported : Jun 04, 2024
Report Number : 2969465-1

Page 1 of 1

Sample Number 2443955-1
Sample Description Emission from Stationary Source
Location ปล่อง HRSG 11
Measurement Date May 29, 2024

Stack Description					
Ambient Temperature	33.5 °C	Diameter	3.00 m	Oxygen	14.07 %
Ambient Pressure	748.2 mmHg	Shape	Circle	Carbon dioxide	3.88 %
Type of Process	Combustion	Stack Temperature	125 °C	Gas Velocity	16.20 m/s
Type of Fuel	Natural Gas	Moisture	7.31 %	Flow Rate	281425 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	01:20 PM - 01:40 PM	14.08	3.88	15.93	32.44	0.43	0.87
2	01:41 PM - 02:01 PM	14.07	3.89	16.05	32.67	0.40	0.81
3	02:02 PM - 02:22 PM	14.07	3.88	15.98	32.53	0.41	0.83
Average (ppm)		14.07	3.88	15.99	32.55	0.41	0.83
Guideline ^{1/} (ppm)				-	60	-	6
Guideline ^{2/} (ppm)				-	120	-	20
Result (mg/Nm ³)				30.08	61.23	1.07	2.18
Emission Rate at Actual O ₂ (g/s)				2.3511		0.0839	
Guideline ^{1/} (g/s)				7.4		1.0	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Saksit Phaisanphisut

Guideline : ^{1/} Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

^{2/} Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ ๖-204-๕-6113

Approved by

Sarayuth Jittrant
Sarayuth Jittrant
Assistant General Manager
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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 2443955
Date Received : May 30, 2024
Date Reported : Jun 04, 2024
Report Number : 2969465-1

Page 1 of 1

Sample Number 2443955-1
Sample Description Emission from Stationary Source
Location ปล่อง HRSG 11
Measurement Date May 29, 2024

Stack Description					
Ambient Temperature	33.5 °C	Diameter	3.00 m	Oxygen	14.07 %
Ambient Pressure	748.2 mmHg	Shape	Circle	Carbon dioxide	3.88 %
Type of Process	Combustion	Stack Temperature	125 °C	Gas Velocity	16.20 m/s
Type of Fuel	Natural Gas	Moisture	7.31 %	Flow Rate	281425 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	01:20 PM - 01:40 PM	14.08	3.88	0.08	0.16
2	01:41 PM - 02:01 PM	14.07	3.89	0.18	0.37
3	02:02 PM - 02:22 PM	14.07	3.88	0.21	0.42
Average (ppm)		14.07	3.88	0.16	0.32
Guideline (ppm)				-	690
Result (mg/Nm ³)				0.18	0.36
Emission Rate at Actual O ₂ (g/s)				0.0140	
Method				US EPA Method 10	

Sampled By : Saksit Phaisanphisut

Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ ๖-204-๕-6113

Approved by

Sarayuth Jittrant
Sarayuth Jittrant
Assistant General Manager
โทรศัพท์ ๖-204-๕-4702

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand
21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING
No.0042

Lot ID: 2443962

Date Received : May 29, 2024

Date Reported : Jun 05, 2024

Report Number: 2969472-1

Page 1 of 2

Sample Number 2443962-1
Sampled Date May 29, 2024
Sample Description Emission from Stationary Source
Location โรงงาน HRSG 11
Date Analysis Commenced May 30, 2024
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description									
Ambient Pressure	748	mmHg	Diameter	3.00	m	Oxygen	14.1	%	
Ambient Temperature	33.5	°C	Shape	Circle		Carbon Dioxide	3.9	%	
Type of Process	Combustion		Stack Temperature	125	°C	Gas Velocity	16.2	m/s	
Type of Fuel	Natural Gas		Moisture	7.48	%	Flow Rate (Actual O2)	281386	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂	Result at 14.1 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing										
Total Suspended Particulate	10:20 AM - 11:02 AM	mg/m3	-	0.5	<0.5	<0.5	28	60	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand
21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING
No.0042

Lot ID: 2443962

Date Received : May 29, 2024

Date Reported : Jun 05, 2024

Report Number: 2969472-1

Page 2 of 2

Sample Number 2443962-1
Sampled Date May 29, 2024
Sample Description Emission from Stationary Source
Location โรงงาน HRSG 11
Date Analysis Commenced May 30, 2024
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description									
Ambient Pressure	748	mmHg	Diameter	3.00	m	Oxygen	14.1	%	
Ambient Temperature	33.5	°C	Shape	Circle		Carbon Dioxide	3.9	%	
Type of Process	Combustion		Stack Temperature	125	°C	Gas Velocity	16.2	m/s	
Type of Fuel	Natural Gas		Moisture	7.48	%	Flow Rate (Actual O2)	281386	Nm3/hr	

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate	10:20 AM - 11:02 AM	g/s	-	-	<0.039	1.8	-	Calculated	Rayong

Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Sampled By : Warawut Putpa

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsuriwong

Scientist (4)

โทรเลขเบอร์ 7-323-4-9447

Approved by

D. Changchon

Dej Changchon

Senior Manager

โทรเลขเบอร์ 7-323-4-9442

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S:\Reports_Air Stack_O2_2GL.rpt (4:32PM)

13430-61/ EMAIL

Technical Management

Thanitak.

Thanita Kulsuriwong

Scientist (4)

โทรเลขเบอร์ 7-323-4-9447

Approved by

D. Changchon

Dej Changchon

Senior Manager

โทรเลขเบอร์ 7-323-4-9442

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S:\Reports_Air Stack_O2_2GL.rpt (4:32PM)

13430-61/ EMAIL



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 2443956
Date Received : May 29, 2024
Date Reported : Jun 04, 2024
Report Number : 2969463-1

Page 1 of 1

Sample Number 2443956-1
Sample Description Emission from Stationary Source
Location บ่อก๊าซ HRS6 12
Measurement Date May 29, 2024

Stack Description					
Ambient Temperature	33.5 °C	Diameter	3.00 m	Oxygen	13.69 %
Ambient Pressure	748.2 mmHg	Shape	Circle	Carbon dioxide	3.87 %
Type of Process	Combustion	Stack Temperature	115 °C	Gas Velocity	17.18 m/s
Type of Fuel	Natural Gas	Moisture	9.28 %	Flow Rate	299643 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O ₂	at 7% O ₂	at Actual O ₂	at 7% O ₂
1	10:20 AM - 10:40 AM	13.71	3.87	12.53	24.25	0.55	1.06
2	10:41 AM - 11:01 AM	13.68	3.87	12.90	24.83	0.56	1.08
3	11:02 AM - 11:22 AM	13.67	3.87	12.76	24.53	0.54	1.04
Average (ppm)		13.69	3.87	12.73	24.53	0.55	1.06
Guideline ¹⁾ (ppm)				-	60	-	6
Guideline ²⁾ (ppm)				-	120	-	20
Result (mg/Nm ³)				23.95	46.16	1.44	2.77
Emission Rate at Actual O ₂ (g/s)				1.9934		0.1198	
Guideline ¹⁾ (g/s)				7.4		1.0	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Sathaporn Thakarn

Guideline : ¹⁾ Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

²⁾ Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
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Approved by

Sarayuth Jittranoit
Sarayuth Jittranoit
Assistant General Manager
โทรศัพท์ 0-204-4-4702

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 2443956
Date Received : May 29, 2024
Date Reported : Jun 04, 2024
Report Number : 2969463-1

Page 1 of 1

Sample Number 2443956-1
Sample Description Emission from Stationary Source
Location บ่อก๊าซ HRS6 12
Measurement Date May 29, 2024

Stack Description					
Ambient Temperature	33.5 °C	Diameter	3.00 m	Oxygen	13.69 %
Ambient Pressure	748.2 mmHg	Shape	Circle	Carbon dioxide	3.87 %
Type of Process	Combustion	Stack Temperature	115 °C	Gas Velocity	17.18 m/s
Type of Fuel	Natural Gas	Moisture	9.28 %	Flow Rate	299643 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Carbon Monoxide (ppm)	
				at Actual O ₂	At 7% O ₂
1	10:20 AM - 10:40 AM	13.71	3.87	0.48	0.94
2	10:41 AM - 11:01 AM	13.68	3.87	0.48	0.93
3	11:02 AM - 11:22 AM	13.67	3.87	0.48	0.92
Average (ppm)		13.69	3.87	0.48	0.93
Guideline (ppm)				-	690
Result (mg/Nm ³)				0.55	1.07
Emission Rate at Actual O ₂ (g/s)				0.0460	
Method				US EPA Method 10	

Sampled By : Sathaporn Thakarn

Guideline : Notification of the Ministry of Industry 2006 (B.E. 2549) Published in the Royal Government Gazette, Vol.123 Special Part 125 D, dated December 4, 2006 (B.E. 2549)

Technical Management

Wichan Choonharat
Wichan Choonharat
Manager
โทรศัพท์ 0-204-4-6113

Approved by

Sarayuth Jittranoit
Sarayuth Jittranoit
Assistant General Manager
โทรศัพท์ 0-204-4-4702

The above results are valid only for the analyzed/tested sample(s) as indicated in this report. No part of this report or certificate may be reproduced in any form without written consent from the Laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand
21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING
No.0042

Lot ID: 2443963

Date Received : May 29, 2024

Date Reported : Jun 05, 2024

Report Number: 2969469-1

Page 1 of 2

Sample Number 2443963-1
Sampled Date May 29, 2024
Sample Description Emission from Stationary Source
Location ปลิวา HRSG 12
Date Analysis Commenced May 30, 2024
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	748	mmHg	Diameter	3.00	m	Oxygen	13.7	%
Ambient Temperature	33.5	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion		Stack Temperature	115	°C	Gas Velocity	17.2	m/s
Type of Fuel	Natural Gas		Moisture	9.31	%	Flow Rate (Actual O2)	299925	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 % O ₂ at 13.7 % O ₂	Guideline (1)	Guideline (2)	Method	Testing Location	
Air Testing										
Total Suspended Particulate	10:20 AM - 11:02 AM	mg/m3	-	0.5	<0.5	<0.5	28	60	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand
21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING
No.0042

Lot ID: 2443963

Date Received : May 29, 2024

Date Reported : Jun 05, 2024

Report Number: 2969469-1

Page 2 of 2

Sample Number 2443963-1
Sampled Date May 29, 2024
Sample Description Emission from Stationary Source
Location ปลิวา HRSG 12
Date Analysis Commenced May 30, 2024
Condition of Sample Extracted into one filter paper placed in plastic petri dish and one plastic bottle

Stack Description

Ambient Pressure	748	mmHg	Diameter	3.00	m	Oxygen	13.7	%
Ambient Temperature	33.5	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion		Stack Temperature	115	°C	Gas Velocity	17.2	m/s
Type of Fuel	Natural Gas		Moisture	9.31	%	Flow Rate (Actual O2)	299925	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
Air Testing									
Total Suspended Particulate *	10:20 AM - 11:02 AM	g/s	-	-	<0.042	1.8	-	Calculated	Rayong

Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2023 (B.E. 2566) on Emission Standard from Power Plants.

Sampled By : Sathaporn Thakraw

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
โทรเลขเลขที่ 3-323-9-9447

Approved by

D. Chamon.

Dej Changchon
Senior Manager
โทรเลขเลขที่ 3-323-9-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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13430-61/ EMAIL

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)
โทรเลขเลขที่ 3-323-9-9447

Approved by

D. Chamon.

Dej Changchon
Senior Manager
โทรเลขเลขที่ 3-323-9-9442

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ภาคผนวก ค-3

ระดับเสียงโดยทั่วไป



Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21142

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015777-1

Page 1 of 1

Sample Number 2443461-1
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วโครงการ (GPS 47P 0737122, 1445264)
Measurement Date May 24 - May 25, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 623394

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	62.4	72.9	60.8
11:00 AM - 12:00 PM	61.1	74.2	59.6
12:00 PM - 01:00 PM	61.1	73.9	59.3
01:00 PM - 02:00 PM	61.8	74.6	60.4
02:00 PM - 03:00 PM	61.8	74.7	60.5
03:00 PM - 04:00 PM	61.7	78.7	60.5
04:00 PM - 05:00 PM	62.3	76.5	60.6
05:00 PM - 06:00 PM	61.9	80.2	60.4
06:00 PM - 07:00 PM	61.5	76.8	60.2
07:00 PM - 08:00 PM	61.9	77.7	60.5
08:00 PM - 09:00 PM	61.3	73.5	60.5
09:00 PM - 10:00 PM	61.5	80.1	60.5
10:00 PM - 11:00 PM	61.5	76.2	60.6
11:00 PM - 12:00 AM	61.7	75.0	60.5
12:00 AM - 01:00 AM	61.1	77.8	60.2
01:00 AM - 02:00 AM	61.4	67.2	60.7
02:00 AM - 03:00 AM	60.9	72.5	60.1
03:00 AM - 04:00 AM	61.1	72.0	60.1
04:00 AM - 05:00 AM	61.5	74.2	60.3
05:00 AM - 06:00 AM	61.3	72.0	60.2
06:00 AM - 07:00 AM	62.0	76.4	60.2
07:00 AM - 08:00 AM	61.6	73.4	59.8
08:00 AM - 09:00 AM	60.4	73.5	59.3
09:00 AM - 10:00 AM	60.6	75.8	59.3

Leq Average 24 hrs. (dB(A))

61.5

Lmax (dB(A))

80.2

L90 (dB(A))

60.3

Ldn (dB(A))

67.8

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21142

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015778-1

Page 1 of 1

Sample Number 2443461-2
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วโครงการ (GPS 47P 0737122, 1445264)
Measurement Date May 25 - May 26, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 623394

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	60.5	72.2	59.4
11:00 AM - 12:00 PM	59.9	73.8	58.7
12:00 PM - 01:00 PM	60.3	75.2	58.7
01:00 PM - 02:00 PM	62.6	85.6	60.5
02:00 PM - 03:00 PM	61.5	71.6	60.6
03:00 PM - 04:00 PM	61.2	76.2	60.2
04:00 PM - 05:00 PM	61.1	74.0	60.0
05:00 PM - 06:00 PM	62.1	94.3	60.1
06:00 PM - 07:00 PM	61.4	81.5	60.4
07:00 PM - 08:00 PM	61.6	74.5	60.5
08:00 PM - 09:00 PM	60.9	73.8	60.1
09:00 PM - 10:00 PM	60.6	74.1	59.9
10:00 PM - 11:00 PM	60.8	67.0	60.1
11:00 PM - 12:00 AM	61.5	74.4	60.7
12:00 AM - 01:00 AM	61.3	73.4	60.6
01:00 AM - 02:00 AM	61.4	74.7	60.5
02:00 AM - 03:00 AM	61.0	75.2	60.3
03:00 AM - 04:00 AM	61.2	69.3	60.3
04:00 AM - 05:00 AM	61.5	72.8	60.4
05:00 AM - 06:00 AM	61.2	75.1	60.3
06:00 AM - 07:00 AM	61.4	72.4	60.3
07:00 AM - 08:00 AM	63.6	74.2	60.5
08:00 AM - 09:00 AM	62.0	74.5	59.5
09:00 AM - 10:00 AM	61.6	74.9	59.5

Leq Average 24 hrs. (dB(A))

61.4

Lmax (dB(A))

94.3

L90 (dB(A))

60.3

Ldn (dB(A))

67.7

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015779-1

Page 1 of 1

Sample Number 2443461-3
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วโครงการ (GPS 47P 0737122, 1445264)
Measurement Date May 26 - May 27, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 623394

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	61.0	71.0	59.1
11:00 AM - 12:00 PM	61.1	73.4	58.8
12:00 PM - 01:00 PM	60.5	73.3	58.7
01:00 PM - 02:00 PM	60.7	73.0	58.8
02:00 PM - 03:00 PM	61.3	75.2	58.8
03:00 PM - 04:00 PM	60.8	72.2	58.9
04:00 PM - 05:00 PM	62.4	74.7	59.4
05:00 PM - 06:00 PM	60.3	73.4	58.9
06:00 PM - 07:00 PM	59.8	74.6	59.0
07:00 PM - 08:00 PM	60.3	75.2	59.4
08:00 PM - 09:00 PM	60.6	88.6	59.7
09:00 PM - 10:00 PM	60.4	66.5	59.9
10:00 PM - 11:00 PM	60.9	74.2	60.1
11:00 PM - 12:00 AM	61.2	74.3	59.9
12:00 AM - 01:00 AM	61.2	74.4	59.9
01:00 AM - 02:00 AM	61.6	75.5	60.2
02:00 AM - 03:00 AM	60.7	65.7	60.0
03:00 AM - 04:00 AM	61.0	66.7	60.0
04:00 AM - 05:00 AM	61.3	75.0	60.1
05:00 AM - 06:00 AM	61.6	73.7	60.2
06:00 AM - 07:00 AM	62.6	75.9	60.6
07:00 AM - 08:00 AM	62.2	74.1	60.2
08:00 AM - 09:00 AM	61.0	73.3	59.6
09:00 AM - 10:00 AM	61.3	76.6	59.7

Leq Average 24 hrs. (dB(A))

Lmax (dB(A))

L90 (dB(A))

Ldn (dB(A))

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supt S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015780-1

Page 1 of 1

Sample Number 2443461-4
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วโครงการ (GPS 47P 0737122, 1445264)
Measurement Date May 27 - May 28, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 623394

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	61.1	74.2	59.6
11:00 AM - 12:00 PM	60.4	69.6	59.1
12:00 PM - 01:00 PM	60.6	75.5	59.3
01:00 PM - 02:00 PM	60.9	71.1	59.6
02:00 PM - 03:00 PM	61.0	74.6	59.7
03:00 PM - 04:00 PM	60.8	72.4	59.7
04:00 PM - 05:00 PM	60.9	71.6	59.5
05:00 PM - 06:00 PM	60.3	70.9	59.4
06:00 PM - 07:00 PM	60.6	73.0	59.6
07:00 PM - 08:00 PM	61.4	76.9	59.9
08:00 PM - 09:00 PM	60.8	74.5	59.9
09:00 PM - 10:00 PM	60.8	74.4	60.0
10:00 PM - 11:00 PM	61.0	68.8	60.2
11:00 PM - 12:00 AM	61.5	69.2	60.2
12:00 AM - 01:00 AM	59.7	73.5	58.8
01:00 AM - 02:00 AM	59.8	73.5	58.8
02:00 AM - 03:00 AM	59.4	74.5	58.5
03:00 AM - 04:00 AM	59.5	69.7	58.6
04:00 AM - 05:00 AM	59.6	75.9	58.5
05:00 AM - 06:00 AM	60.0	76.1	58.5
06:00 AM - 07:00 AM	61.4	84.0	58.9
07:00 AM - 08:00 AM	62.5	76.2	60.2
08:00 AM - 09:00 AM	61.6	75.2	60.0
09:00 AM - 10:00 AM	61.7	76.8	60.4

Leq Average 24 hrs. (dB(A))

Lmax (dB(A))

L90 (dB(A))

Ldn (dB(A))

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supt S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015781-1

Page 1 of 1

Sample Number 2443461-5
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วโครงการ (GPS 47P 0737122, 1445264)
Measurement Date May 28 - May 29, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 623394

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	61.7	72.3	60.4
11:00 AM - 12:00 PM	61.0	75.3	59.4
12:00 PM - 01:00 PM	60.6	75.5	59.2
01:00 PM - 02:00 PM	61.6	74.6	60.3
02:00 PM - 03:00 PM	61.5	73.4	60.3
03:00 PM - 04:00 PM	61.3	72.5	60.3
04:00 PM - 05:00 PM	61.6	75.6	60.3
05:00 PM - 06:00 PM	61.2	73.4	59.9
06:00 PM - 07:00 PM	61.1	81.3	59.9
07:00 PM - 08:00 PM	61.8	75.1	60.3
08:00 PM - 09:00 PM	61.4	77.8	60.3
09:00 PM - 10:00 PM	61.1	75.9	60.3
10:00 PM - 11:00 PM	61.6	74.9	60.7
11:00 PM - 12:00 AM	61.3	75.1	60.4
12:00 AM - 01:00 AM	60.9	75.2	59.9
01:00 AM - 02:00 AM	60.8	75.3	60.0
02:00 AM - 03:00 AM	60.5	73.3	59.8
03:00 AM - 04:00 AM	60.4	72.6	59.7
04:00 AM - 05:00 AM	60.5	67.8	59.8
05:00 AM - 06:00 AM	61.0	75.3	60.0
06:00 AM - 07:00 AM	61.6	73.7	60.3
07:00 AM - 08:00 AM	62.5	76.4	60.7
08:00 AM - 09:00 AM	61.2	78.6	59.6
09:00 AM - 10:00 AM	62.8	81.9	60.9

Leq Average 24 hrs. (dB(A))

61.3

Lmax (dB(A))

81.9

L90 (dB(A))

60.3

Ldn (dB(A))

67.5

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

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13430-61/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015782-1

Page 1 of 1

Sample Number 2443461-6
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วโครงการ (GPS 47P 0737122, 1445264)
Measurement Date May 29 - May 30, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 623394

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	62.8	74.9	60.3
11:00 AM - 12:00 PM	61.1	73.5	59.1
12:00 PM - 01:00 PM	60.7	73.4	58.6
01:00 PM - 02:00 PM	62.9	74.5	60.1
02:00 PM - 03:00 PM	61.8	74.0	60.2
03:00 PM - 04:00 PM	61.5	76.9	60.2
04:00 PM - 05:00 PM	61.2	71.8	60.0
05:00 PM - 06:00 PM	60.7	75.6	59.7
06:00 PM - 07:00 PM	60.6	78.0	59.7
07:00 PM - 08:00 PM	61.3	75.8	59.7
08:00 PM - 09:00 PM	60.6	75.6	59.8
09:00 PM - 10:00 PM	60.7	72.6	59.8
10:00 PM - 11:00 PM	60.7	70.3	60.0
11:00 PM - 12:00 AM	60.9	72.6	60.0
12:00 AM - 01:00 AM	60.3	72.2	59.4
01:00 AM - 02:00 AM	60.6	78.9	59.5
02:00 AM - 03:00 AM	60.2	74.9	59.4
03:00 AM - 04:00 AM	60.6	75.8	59.5
04:00 AM - 05:00 AM	60.5	79.3	59.6
05:00 AM - 06:00 AM	61.2	83.2	59.9
06:00 AM - 07:00 AM	61.8	79.0	60.1
07:00 AM - 08:00 AM	62.3	76.4	60.2
08:00 AM - 09:00 AM	61.5	74.9	59.7
09:00 AM - 10:00 AM	61.7	73.8	60.3

Leq Average 24 hrs. (dB(A))

61.2

Lmax (dB(A))

83.2

L90 (dB(A))

59.8

Ldn (dB(A))

67.3

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

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Scientist (4)

Approved by

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Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21142

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015783-1

Page 1 of 1

Sample Number 2443461-7
Parameter Noise (Leq 24 hrs.)
Location บริเวณรั้วโครงการ (GPS 47P 0737122, 1445264)
Measurement Date May 30 - May 31, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 623394

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	61.8	73.5	60.4
11:00 AM - 12:00 PM	61.1	73.2	59.1
12:00 PM - 01:00 PM	60.3	78.0	58.9
01:00 PM - 02:00 PM	61.1	74.3	59.9
02:00 PM - 03:00 PM	61.0	74.7	59.9
03:00 PM - 04:00 PM	61.4	78.3	60.0
04:00 PM - 05:00 PM	61.3	74.0	60.0
05:00 PM - 06:00 PM	60.7	74.6	59.6
06:00 PM - 07:00 PM	60.6	71.5	59.6
07:00 PM - 08:00 PM	61.1	74.4	59.7
08:00 PM - 09:00 PM	60.6	71.0	59.8
09:00 PM - 10:00 PM	60.9	72.9	60.0
10:00 PM - 11:00 PM	61.5	75.1	60.6
11:00 PM - 12:00 AM	61.0	74.9	60.1
12:00 AM - 01:00 AM	60.7	73.8	59.7
01:00 AM - 02:00 AM	60.8	73.9	59.7
02:00 AM - 03:00 AM	60.6	74.0	59.7
03:00 AM - 04:00 AM	60.5	77.1	59.7
04:00 AM - 05:00 AM	60.5	79.2	59.5
05:00 AM - 06:00 AM	60.7	74.7	59.6
06:00 AM - 07:00 AM	61.5	76.2	60.1
07:00 AM - 08:00 AM	62.4	81.6	60.2
08:00 AM - 09:00 AM	60.8	75.0	59.2
09:00 AM - 10:00 AM	60.9	81.6	59.5

Leq Average 24 hrs. (dB(A))

61.0

Lmax (dB(A))

81.6

L90 (dB(A))

59.7

Ldn (dB(A))

67.3

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

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Scientist (4)

Approved by

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Supot Salamteh
Section Head

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13430-61/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21142

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015784-1

Page 1 of 1

Sample Number 2443461-8
Parameter Noise (Leq 24 hrs.)
Location โรงเก็บวัสดุเหล็ก (GPS 47P 0735491, 1445328)
Measurement Date May 24 - May 25, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734225

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.6	85.4	52.7
11:00 AM - 12:00 PM	56.7	73.6	52.5
12:00 PM - 01:00 PM	56.9	76.6	52.4
01:00 PM - 02:00 PM	58.5	75.6	53.0
02:00 PM - 03:00 PM	57.2	82.0	51.7
03:00 PM - 04:00 PM	60.2	88.3	53.1
04:00 PM - 05:00 PM	58.9	82.8	53.0
05:00 PM - 06:00 PM	58.2	78.4	53.8
06:00 PM - 07:00 PM	57.8	77.7	54.0
07:00 PM - 08:00 PM	58.2	78.3	53.4
08:00 PM - 09:00 PM	56.6	76.4	52.7
09:00 PM - 10:00 PM	56.8	80.3	51.7
10:00 PM - 11:00 PM	55.4	72.0	51.4
11:00 PM - 12:00 AM	55.0	76.7	52.1
12:00 AM - 01:00 AM	53.5	71.6	50.9
01:00 AM - 02:00 AM	54.2	65.7	51.2
02:00 AM - 03:00 AM	54.8	68.2	51.0
03:00 AM - 04:00 AM	57.0	75.3	51.8
04:00 AM - 05:00 AM	57.4	81.3	51.9
05:00 AM - 06:00 AM	58.2	78.8	51.8
06:00 AM - 07:00 AM	57.7	86.0	50.8
07:00 AM - 08:00 AM	54.4	73.3	49.8
08:00 AM - 09:00 AM	54.8	74.9	49.4
09:00 AM - 10:00 AM	54.1	76.6	48.6

Leq Average 24 hrs. (dB(A))

57.1

Lmax (dB(A))

88.3

L90 (dB(A))

51.8

Ldn (dB(A))

62.8

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

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Scientist (4)

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Supot Salamteh
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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 2114C

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015785-1

Page 1 of 1

Sample Number 2443461-9
Parameter Noise (Leq 24 hrs.)
Location โรงเจิมพาสส์ (GPS 47P 0735491, 1445328)
Measurement Date May 25 - May 26, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734225

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	54.7	77.7	50.3
11:00 AM - 12:00 PM	64.2	99.0	51.5
12:00 PM - 01:00 PM	58.8	79.1	54.8
01:00 PM - 02:00 PM	58.6	78.6	55.0
02:00 PM - 03:00 PM	56.9	71.3	52.5
03:00 PM - 04:00 PM	59.4	81.3	53.8
04:00 PM - 05:00 PM	59.9	79.9	54.6
05:00 PM - 06:00 PM	57.7	74.9	54.1
06:00 PM - 07:00 PM	58.2	79.3	53.4
07:00 PM - 08:00 PM	56.4	77.8	52.9
08:00 PM - 09:00 PM	56.4	76.6	53.1
09:00 PM - 10:00 PM	58.3	82.9	53.9
10:00 PM - 11:00 PM	54.8	73.9	52.9
11:00 PM - 12:00 AM	57.9	77.3	54.8
12:00 AM - 01:00 AM	57.8	72.6	55.9
01:00 AM - 02:00 AM	57.1	67.1	54.6
02:00 AM - 03:00 AM	57.2	68.7	54.2
03:00 AM - 04:00 AM	56.1	73.7	53.5
04:00 AM - 05:00 AM	56.1	73.5	52.8
05:00 AM - 06:00 AM	58.4	84.5	51.3
06:00 AM - 07:00 AM	57.4	86.9	50.2
07:00 AM - 08:00 AM	53.9	73.8	49.7
08:00 AM - 09:00 AM	53.8	76.8	47.4
09:00 AM - 10:00 AM	53.7	77.9	47.4
Leq Average 24 hrs. (dB(A))	57.9		
Lmax (dB(A))		99.0	
L90 (dB(A))			53.1
Ldn (dB(A))	63.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

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Scientist (4)

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13430-61/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 2114C

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015786-1

Page 1 of 1

Sample Number 2443461-10
Parameter Noise (Leq 24 hrs.)
Location โรงเจิมพาสส์ (GPS 47P 0735491, 1445328)
Measurement Date May 26 - May 27, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734225

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	55.2	83.6	47.9
11:00 AM - 12:00 PM	54.7	81.0	48.1
12:00 PM - 01:00 PM	57.0	82.1	48.7
01:00 PM - 02:00 PM	54.7	75.6	49.1
02:00 PM - 03:00 PM	56.0	81.8	49.3
03:00 PM - 04:00 PM	57.2	78.2	50.6
04:00 PM - 05:00 PM	58.7	79.8	51.6
05:00 PM - 06:00 PM	59.3	81.2	52.7
06:00 PM - 07:00 PM	57.4	81.3	51.7
07:00 PM - 08:00 PM	54.2	80.3	49.2
08:00 PM - 09:00 PM	51.7	71.1	48.8
09:00 PM - 10:00 PM	52.8	78.0	49.1
10:00 PM - 11:00 PM	51.9	73.5	48.9
11:00 PM - 12:00 AM	51.7	74.6	48.7
12:00 AM - 01:00 AM	50.1	66.8	48.3
01:00 AM - 02:00 AM	50.7	72.4	48.5
02:00 AM - 03:00 AM	54.3	84.7	48.5
03:00 AM - 04:00 AM	54.3	74.6	49.8
04:00 AM - 05:00 AM	59.1	83.9	51.1
05:00 AM - 06:00 AM	59.5	77.6	52.9
06:00 AM - 07:00 AM	57.9	83.1	51.4
07:00 AM - 08:00 AM	57.5	81.8	50.2
08:00 AM - 09:00 AM	56.8	77.6	50.3
09:00 AM - 10:00 AM	55.9	71.2	51.1
Leq Average 24 hrs. (dB(A))	56.2		
Lmax (dB(A))		84.7	
L90 (dB(A))			49.2
Ldn (dB(A))	62.3		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

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Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015787-1

Page 1 of 1

Sample Number 2443461-11
Parameter Noise (Leq 24 hrs.)
Location โรงเรือนแปรรูปสุก (GPS 47P 0735491, 1445328)
Measurement Date May 27 - May 28, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734225

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	56.1	80.5	51.8
11:00 AM - 12:00 PM	57.3	73.2	52.1
12:00 PM - 01:00 PM	58.8	83.4	51.4
01:00 PM - 02:00 PM	58.3	76.7	51.4
02:00 PM - 03:00 PM	57.5	80.1	51.8
03:00 PM - 04:00 PM	57.4	79.9	51.5
04:00 PM - 05:00 PM	55.6	74.5	50.8
05:00 PM - 06:00 PM	55.9	85.4	49.9
06:00 PM - 07:00 PM	52.4	72.0	49.3
07:00 PM - 08:00 PM	51.9	74.5	48.9
08:00 PM - 09:00 PM	52.9	76.4	49.4
09:00 PM - 10:00 PM	51.4	68.3	49.3
10:00 PM - 11:00 PM	55.8	83.1	48.4
11:00 PM - 12:00 AM	50.5	72.9	48.5
12:00 AM - 01:00 AM	52.6	78.4	48.6
01:00 AM - 02:00 AM	54.4	81.9	49.9
02:00 AM - 03:00 AM	58.8	82.5	51.8
03:00 AM - 04:00 AM	59.3	79.5	51.8
04:00 AM - 05:00 AM	57.1	83.4	50.1
05:00 AM - 06:00 AM	56.1	74.7	51.4
06:00 AM - 07:00 AM	54.4	72.4	48.5
07:00 AM - 08:00 AM	56.0	76.6	48.5
08:00 AM - 09:00 AM	55.1	76.3	47.6
09:00 AM - 10:00 AM	54.0	77.5	48.6

Leq Average 24 hrs. (dB(A)) 56.0
Lmax (dB(A)) 85.4
L90 (dB(A)) 49.9
Ldn (dB(A)) 62.6
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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13430-61/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015788-1

Page 1 of 1

Sample Number 2443461-12
Parameter Noise (Leq 24 hrs.)
Location โรงเรือนแปรรูปสุก (GPS 47P 0735491, 1445328)
Measurement Date May 28 - May 29, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734225

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	57.3	78.5	51.4
11:00 AM - 12:00 PM	66.7	91.2	50.3
12:00 PM - 01:00 PM	58.5	84.6	51.4
01:00 PM - 02:00 PM	59.0	81.2	52.3
02:00 PM - 03:00 PM	57.9	80.3	51.5
03:00 PM - 04:00 PM	56.4	74.8	51.9
04:00 PM - 05:00 PM	55.4	79.1	50.6
05:00 PM - 06:00 PM	54.9	78.9	50.2
06:00 PM - 07:00 PM	52.9	77.7	49.7
07:00 PM - 08:00 PM	52.1	69.6	50.0
08:00 PM - 09:00 PM	53.4	80.8	49.7
09:00 PM - 10:00 PM	50.8	67.3	49.1
10:00 PM - 11:00 PM	50.9	67.0	49.4
11:00 PM - 12:00 AM	51.2	73.1	48.9
12:00 AM - 01:00 AM	52.0	67.6	49.1
01:00 AM - 02:00 AM	54.9	78.1	50.0
02:00 AM - 03:00 AM	59.3	78.4	52.5
03:00 AM - 04:00 AM	65.7	80.2	51.8
04:00 AM - 05:00 AM	58.5	80.2	52.9
05:00 AM - 06:00 AM	55.5	75.5	50.6
06:00 AM - 07:00 AM	56.1	77.6	50.4
07:00 AM - 08:00 AM	56.1	80.6	50.4
08:00 AM - 09:00 AM	66.1	93.6	53.2
09:00 AM - 10:00 AM	57.2	76.9	52.0

Leq Average 24 hrs. (dB(A)) 59.4
Lmax (dB(A)) 93.6
L90 (dB(A)) 50.4
Ldn (dB(A)) 65.3
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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13430-61/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21144

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015789-1

Page 1 of 1

Sample Number 2443461-13
Parameter Noise (Leq 24 hrs.)
Location โรงเก็บน้ำมันสุรศักดิ์ (GPS 47P 0735491, 1445328)
Measurement Date May 29 - May 30, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734225

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	58.6	78.2	53.8
11:00 AM - 12:00 PM	61.8	86.4	51.8
12:00 PM - 01:00 PM	57.2	74.7	52.5
01:00 PM - 02:00 PM	59.1	79.2	52.7
02:00 PM - 03:00 PM	57.8	80.1	51.6
03:00 PM - 04:00 PM	57.2	79.4	51.6
04:00 PM - 05:00 PM	56.5	78.1	51.3
05:00 PM - 06:00 PM	55.1	81.5	50.4
06:00 PM - 07:00 PM	53.0	78.1	50.2
07:00 PM - 08:00 PM	53.2	73.0	50.3
08:00 PM - 09:00 PM	52.7	70.8	51.0
09:00 PM - 10:00 PM	51.4	69.0	49.4
10:00 PM - 11:00 PM	51.2	64.5	49.5
11:00 PM - 12:00 AM	51.3	67.3	49.8
12:00 AM - 01:00 AM	52.1	78.0	48.6
01:00 AM - 02:00 AM	56.1	81.4	49.7
02:00 AM - 03:00 AM	58.2	81.7	51.9
03:00 AM - 04:00 AM	58.3	79.4	53.5
04:00 AM - 05:00 AM	57.3	80.4	50.9
05:00 AM - 06:00 AM	55.8	71.7	49.6
06:00 AM - 07:00 AM	54.4	73.1	49.5
07:00 AM - 08:00 AM	68.6	92.6	49.5
08:00 AM - 09:00 AM	65.2	85.0	52.0
09:00 AM - 10:00 AM	56.3	76.6	52.5

Leq Average 24 hrs. (dB(A))

59.3

Lmax (dB(A))

92.6

L90 (dB(A))

50.9

Ldn (dB(A))

63.3

Standard (dB(A))

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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13430-61/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21144

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015790-1

Page 1 of 1

Sample Number 2443461-14
Parameter Noise (Leq 24 hrs.)
Location โรงเก็บน้ำมันสุรศักดิ์ (GPS 47P 0735491, 1445328)
Measurement Date May 30 - May 31, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734225

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	57.2	76.7	53.2
11:00 AM - 12:00 PM	68.6	94.2	52.2
12:00 PM - 01:00 PM	57.8	87.3	52.1
01:00 PM - 02:00 PM	59.1	80.9	52.5
02:00 PM - 03:00 PM	57.4	78.3	52.3
03:00 PM - 04:00 PM	56.3	79.1	51.7
04:00 PM - 05:00 PM	55.9	78.8	49.5
05:00 PM - 06:00 PM	54.8	80.9	49.6
06:00 PM - 07:00 PM	54.6	80.0	49.3
07:00 PM - 08:00 PM	51.1	69.0	48.5
08:00 PM - 09:00 PM	50.3	67.4	48.1
09:00 PM - 10:00 PM	50.8	66.9	48.4
10:00 PM - 11:00 PM	51.5	75.5	47.9
11:00 PM - 12:00 AM	49.9	66.4	47.8
12:00 AM - 01:00 AM	50.6	71.9	47.9
01:00 AM - 02:00 AM	53.4	70.4	49.1
02:00 AM - 03:00 AM	58.6	82.7	51.4
03:00 AM - 04:00 AM	65.6	83.7	52.3
04:00 AM - 05:00 AM	59.5	84.7	48.9
05:00 AM - 06:00 AM	68.8	95.4	52.4
06:00 AM - 07:00 AM	56.2	77.7	50.5
07:00 AM - 08:00 AM	56.2	80.7	50.5
08:00 AM - 09:00 AM	66.2	93.7	53.3
09:00 AM - 10:00 AM	57.3	77.0	52.1

Leq Average 24 hrs. (dB(A))

61.0

Lmax (dB(A))

95.4

L90 (dB(A))

50.5

Ldn (dB(A))

68.1

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GT53

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015791-1

Page 1 of 1

Sample Number 2443461-15
Parameter Noise (Leq 24 hrs.)
Location บ้านหนองค้างคาว (GPS 47P 0738701, 1444162)
Measurement Date May 24 - May 25, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	48.0	71.7	40.0
11:00 AM - 12:00 PM	46.4	69.8	39.4
12:00 PM - 01:00 PM	46.2	65.3	39.9
01:00 PM - 02:00 PM	51.2	74.9	40.4
02:00 PM - 03:00 PM	51.2	66.6	42.4
03:00 PM - 04:00 PM	51.5	76.0	46.2
04:00 PM - 05:00 PM	51.9	72.4	46.0
05:00 PM - 06:00 PM	52.5	80.9	47.7
06:00 PM - 07:00 PM	64.7	94.8	49.9
07:00 PM - 08:00 PM	51.0	66.0	48.8
08:00 PM - 09:00 PM	51.1	65.9	48.5
09:00 PM - 10:00 PM	48.9	71.2	46.1
10:00 PM - 11:00 PM	47.5	79.7	45.1
11:00 PM - 12:00 AM	48.2	73.1	44.3
12:00 AM - 01:00 AM	45.3	77.4	42.8
01:00 AM - 02:00 AM	44.7	67.3	40.7
02:00 AM - 03:00 AM	52.7	79.3	41.2
03:00 AM - 04:00 AM	48.1	73.2	42.6
04:00 AM - 05:00 AM	54.3	83.6	44.7
05:00 AM - 06:00 AM	55.6	79.4	46.0
06:00 AM - 07:00 AM	53.1	73.7	45.6
07:00 AM - 08:00 AM	50.2	72.6	41.6
08:00 AM - 09:00 AM	49.4	68.6	43.3
09:00 AM - 10:00 AM	48.5	68.8	42.8

Leq Average 24 hrs. (dB(A))

Lmax (dB(A))

L90 (dB(A))

Ldn (dB(A))

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsunwong
Scientist (4)

Approved by

Supt S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GT53

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015792-1

Page 1 of 1

Sample Number 2443461-16
Parameter Noise (Leq 24 hrs.)
Location บ้านหนองค้างคาว (GPS 47P 0738701, 1444162)
Measurement Date May 25 - May 26, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	45.5	64.6	39.8
11:00 AM - 12:00 PM	47.4	77.1	40.4
12:00 PM - 01:00 PM	52.8	80.0	46.3
01:00 PM - 02:00 PM	49.8	79.7	45.5
02:00 PM - 03:00 PM	48.6	69.7	44.3
03:00 PM - 04:00 PM	49.5	69.3	44.4
04:00 PM - 05:00 PM	59.8	74.5	45.3
05:00 PM - 06:00 PM	56.4	76.3	51.0
06:00 PM - 07:00 PM	55.6	67.2	52.4
07:00 PM - 08:00 PM	52.8	68.1	48.1
08:00 PM - 09:00 PM	49.4	60.6	47.0
09:00 PM - 10:00 PM	49.5	61.9	47.1
10:00 PM - 11:00 PM	48.8	73.2	44.1
11:00 PM - 12:00 AM	45.0	63.7	42.6
12:00 AM - 01:00 AM	44.6	67.1	41.8
01:00 AM - 02:00 AM	43.7	63.2	40.9
02:00 AM - 03:00 AM	54.1	79.5	40.7
03:00 AM - 04:00 AM	47.2	71.5	41.8
04:00 AM - 05:00 AM	53.9	75.3	45.4
05:00 AM - 06:00 AM	54.6	76.4	44.8
06:00 AM - 07:00 AM	54.3	73.1	45.3
07:00 AM - 08:00 AM	49.0	75.4	41.2
08:00 AM - 09:00 AM	48.8	65.1	42.6
09:00 AM - 10:00 AM	50.5	77.5	41.2

Leq Average 24 hrs. (dB(A))

Lmax (dB(A))

L90 (dB(A))

Ldn (dB(A))

Standard (dB(A))

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการ
โรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanitak.

Thanita Kulsunwong
Scientist (4)

Approved by

Supt S.

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Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 2114C

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015793-1

Page 1 of 1

Sample Number 2443461-17
Parameter Noise (Leq 24 hrs.)
Location บ้านหนองค้างคาว (GPS 47P 0738701, 1444162)
Measurement Date May 26 - May 27, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	47.8	72.1	40.4
11:00 AM - 12:00 PM	49.6	66.5	40.4
12:00 PM - 01:00 PM	51.6	75.5	41.4
01:00 PM - 02:00 PM	46.2	64.0	40.4
02:00 PM - 03:00 PM	48.4	70.4	42.3
03:00 PM - 04:00 PM	52.3	71.4	46.0
04:00 PM - 05:00 PM	53.4	70.3	45.1
05:00 PM - 06:00 PM	51.6	76.5	46.4
06:00 PM - 07:00 PM	50.2	70.3	47.4
07:00 PM - 08:00 PM	49.4	67.7	46.5
08:00 PM - 09:00 PM	55.3	74.2	45.4
09:00 PM - 10:00 PM	48.4	73.4	44.8
10:00 PM - 11:00 PM	46.4	72.8	43.3
11:00 PM - 12:00 AM	46.4	74.7	41.4
12:00 AM - 01:00 AM	44.9	65.7	41.6
01:00 AM - 02:00 AM	43.7	74.3	39.9
02:00 AM - 03:00 AM	44.3	67.4	40.4
03:00 AM - 04:00 AM	48.1	76.3	41.8
04:00 AM - 05:00 AM	57.0	76.9	45.8
05:00 AM - 06:00 AM	53.2	72.1	48.6
06:00 AM - 07:00 AM	52.5	73.0	45.5
07:00 AM - 08:00 AM	49.0	80.1	42.9
08:00 AM - 09:00 AM	49.0	66.8	42.0
09:00 AM - 10:00 AM	48.6	75.1	41.9

Leq Average 24 hrs. (dB(A))

50.8

Lmax (dB(A))

80.1

L90 (dB(A))

42.3

Ldn (dB(A))

57.3

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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13430-61/ EMAIL



Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 2114C

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015794-1

Page 1 of 1

Sample Number 2443461-18
Parameter Noise (Leq 24 hrs.)
Location บ้านหนองค้างคาว (GPS 47P 0738701, 1444162)
Measurement Date May 27 - May 28, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	48.0	66.2	42.1
11:00 AM - 12:00 PM	50.1	73.5	42.8
12:00 PM - 01:00 PM	46.9	65.4	42.2
01:00 PM - 02:00 PM	48.1	65.3	42.6
02:00 PM - 03:00 PM	50.7	66.1	45.3
03:00 PM - 04:00 PM	50.0	67.2	45.0
04:00 PM - 05:00 PM	49.9	73.9	44.5
05:00 PM - 06:00 PM	50.2	64.9	47.2
06:00 PM - 07:00 PM	50.6	77.7	47.3
07:00 PM - 08:00 PM	49.4	76.0	47.0
08:00 PM - 09:00 PM	49.9	76.1	47.2
09:00 PM - 10:00 PM	47.1	56.3	44.9
10:00 PM - 11:00 PM	46.4	61.5	43.7
11:00 PM - 12:00 AM	46.3	68.4	43.2
12:00 AM - 01:00 AM	44.4	71.8	42.2
01:00 AM - 02:00 AM	45.4	68.6	40.9
02:00 AM - 03:00 AM	47.1	68.0	42.4
03:00 AM - 04:00 AM	54.3	80.6	43.8
04:00 AM - 05:00 AM	51.7	70.1	46.4
05:00 AM - 06:00 AM	53.9	75.1	48.8
06:00 AM - 07:00 AM	51.7	74.3	45.1
07:00 AM - 08:00 AM	50.0	68.5	43.7
08:00 AM - 09:00 AM	50.4	73.8	45.5
09:00 AM - 10:00 AM	51.5	65.9	44.3

Leq Average 24 hrs. (dB(A))

50.0

Lmax (dB(A))

80.6

L90 (dB(A))

44.3

Ldn (dB(A))

56.8

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015795-1

Page 1 of 1

Sample Number 2443461-19
Parameter Noise (Leq 24 hrs.)
Location บ้านหนองค้างคาว (GPS 47P 0738701, 1444162)
Measurement Date May 28 - May 29, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.0	65.2	43.6
11:00 AM - 12:00 PM	49.9	70.0	43.5
12:00 PM - 01:00 PM	53.1	74.3	44.9
01:00 PM - 02:00 PM	52.5	71.4	43.2
02:00 PM - 03:00 PM	51.1	73.5	43.1
03:00 PM - 04:00 PM	49.2	70.2	43.7
04:00 PM - 05:00 PM	49.8	73.5	44.6
05:00 PM - 06:00 PM	50.1	70.0	47.0
06:00 PM - 07:00 PM	50.6	71.9	47.7
07:00 PM - 08:00 PM	53.3	82.3	45.2
08:00 PM - 09:00 PM	49.6	77.0	45.5
09:00 PM - 10:00 PM	47.4	63.8	44.8
10:00 PM - 11:00 PM	45.2	69.7	42.8
11:00 PM - 12:00 AM	46.4	81.6	42.4
12:00 AM - 01:00 AM	48.1	76.8	42.3
01:00 AM - 02:00 AM	53.4	91.0	41.8
02:00 AM - 03:00 AM	44.9	64.2	40.9
03:00 AM - 04:00 AM	51.6	84.4	42.9
04:00 AM - 05:00 AM	55.2	71.8	47.3
05:00 AM - 06:00 AM	54.5	81.2	49.1
06:00 AM - 07:00 AM	52.4	70.4	45.7
07:00 AM - 08:00 AM	50.6	70.3	44.1
08:00 AM - 09:00 AM	49.3	74.3	44.1
09:00 AM - 10:00 AM	48.3	69.3	43.2

Leq Average 24 hrs. (dB(A)) 51.0
Lmax (dB(A)) 91.0
L90 (dB(A)) 43.7
Ldn (dB(A)) 57.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015795-1

Page 1 of 1

Sample Number 2443461-20
Parameter Noise (Leq 24 hrs.)
Location บ้านหนองค้างคาว (GPS 47P 0738701, 1444162)
Measurement Date May 29 - May 30, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	49.7	65.6	43.3
11:00 AM - 12:00 PM	52.5	67.4	43.4
12:00 PM - 01:00 PM	49.4	69.3	42.2
01:00 PM - 02:00 PM	53.5	76.3	42.1
02:00 PM - 03:00 PM	50.4	68.5	45.7
03:00 PM - 04:00 PM	52.4	72.7	47.3
04:00 PM - 05:00 PM	50.8	72.7	46.3
05:00 PM - 06:00 PM	51.4	67.4	48.0
06:00 PM - 07:00 PM	51.0	72.6	47.8
07:00 PM - 08:00 PM	49.8	68.7	46.5
08:00 PM - 09:00 PM	53.4	82.5	45.0
09:00 PM - 10:00 PM	48.2	68.9	44.4
10:00 PM - 11:00 PM	43.9	57.8	41.6
11:00 PM - 12:00 AM	43.6	61.8	41.3
12:00 AM - 01:00 AM	45.3	72.0	39.9
01:00 AM - 02:00 AM	46.0	69.1	39.3
02:00 AM - 03:00 AM	46.9	72.7	41.8
03:00 AM - 04:00 AM	49.5	67.9	43.1
04:00 AM - 05:00 AM	54.9	74.3	47.0
05:00 AM - 06:00 AM	53.2	76.5	47.9
06:00 AM - 07:00 AM	53.0	77.6	45.2
07:00 AM - 08:00 AM	52.4	72.4	44.7
08:00 AM - 09:00 AM	49.6	80.1	43.8
09:00 AM - 10:00 AM	49.6	71.8	43.2

Leq Average 24 hrs. (dB(A)) 50.9
Lmax (dB(A)) 82.5
L90 (dB(A)) 43.8
Ldn (dB(A)) 56.9
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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Analysis / Test Report



TESTING
No.0042

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443461

Date Received : Jun 03, 2024

Date Reported : Jun 07, 2024

Report Number: 3015797-1

Page 1 of 1

Sample Number 2443461-21
Parameter Noise (Leq 24 hrs.)
Location บ้านหนองค้างคาว (GPS 47P 0738701, 1444162)
Measurement Date May 30 - May 31, 2024
Measurement by Satcha Phetsawaeng
Sound Level meter Serial No. 734223

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
10:00 AM - 11:00 AM	50.3	68.2	40.5
11:00 AM - 12:00 PM	51.3	72.9	42.4
12:00 PM - 01:00 PM	47.0	67.3	41.5
01:00 PM - 02:00 PM	47.8	65.8	43.3
02:00 PM - 03:00 PM	50.1	66.9	43.9
03:00 PM - 04:00 PM	51.4	71.4	45.2
04:00 PM - 05:00 PM	50.2	71.5	46.0
05:00 PM - 06:00 PM	52.4	85.9	48.5
06:00 PM - 07:00 PM	58.6	86.3	47.2
07:00 PM - 08:00 PM	49.4	79.4	45.8
08:00 PM - 09:00 PM	48.9	65.4	44.9
09:00 PM - 10:00 PM	49.7	69.0	44.2
10:00 PM - 11:00 PM	46.2	79.8	43.0
11:00 PM - 12:00 AM	50.7	79.0	40.1
12:00 AM - 01:00 AM	43.1	61.9	39.7
01:00 AM - 02:00 AM	43.3	68.5	39.6
02:00 AM - 03:00 AM	45.3	67.2	40.3
03:00 AM - 04:00 AM	49.6	77.8	41.0
04:00 AM - 05:00 AM	51.3	76.7	44.8
05:00 AM - 06:00 AM	54.0	69.9	47.1
06:00 AM - 07:00 AM	53.3	83.1	44.4
07:00 AM - 08:00 AM	49.8	66.8	43.8
08:00 AM - 09:00 AM	50.1	70.2	47.3
09:00 AM - 10:00 AM	49.3	67.6	46.4

Leq Average 24 hrs. (dB(A))

51.1

Lmax (dB(A))

86.3

L90 (dB(A))

43.9

Ldn (dB(A))

56.8

Standard (dB(A))

70

115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป

2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Thanita K.

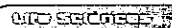
Thanita Kulsuriwong
Scientist (4)

Approved by

Supot S.

Supot Salamteh
Section Head

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ภาคผนวก ค-4

คุณภาพน้ำทิ้งจากระบบการผลิต



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 23144454
Date Received : Jan 08, 2024
Date Reported : Jan 15, 2024
Report Number : 2865749-1

Page 1 of 2

Sample Number	23144454-1
Sampled Date	Jan 08, 2024 10:34 AM
Sample Description	Wastewater
Location	ปลวกแดงโรงงาน
Date Analysis Commenced	Jan 08, 2024
Condition of Sample	Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	9	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	9	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	4	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	37.7	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	71	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Surawit Narapong โทรเลขแจ้ง ร-323-ก-0011

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
โทรเลขแจ้ง ร-323-ก-9445

Approved by

D. Chumma

Dej Changchon
Senior Manager
โทรเลขแจ้ง ร-323-ก-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 23144454
Date Received : Jan 08, 2024
Date Reported : Jan 15, 2024
Report Number : 2865749-1

Page 2 of 2

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
โทรเลขแจ้ง ร-323-ก-9445

Approved by

D. Chumma

Dej Changchon
Senior Manager
โทรเลขแจ้ง ร-323-ก-9442

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 242249
Date Received : Feb 02, 2024
Date Reported : Feb 09, 2024
Report Number : 2880040-1

Page 1 of 2

Sample Number	242249-1						
Sampled Date	Feb 02, 2024 10:30 AM						
Sample Description	Wastewater						
Location	ปลวกแดง						
Date Analysis Commenced	Feb 02, 2024						
Condition of Sample	Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	7	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	7	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.4	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	86	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Narumon thammassaro โทร 09-9445-3233

Technical Management

N. Banchoangkit

Narumon Banchoangkit
Supervisor
โทร 09-9445-3233

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทร 09-9445-3233

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory.
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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 242249
Date Received : Feb 02, 2024
Date Reported : Feb 09, 2024
Report Number : 2880040-1

Page 2 of 2

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banchoangkit

Narumon Banchoangkit
Supervisor
โทร 09-9445-3233

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทร 09-9445-3233

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2422316
Date Received : Mar 05, 2024
Date Reported : Mar 12, 2024
Report Number : 2920491-1

Page 1 of 2

Sample Number	2422316-1
Sampled Date	Mar 05, 2024 10:30 AM
Sample Description	Wastewater
Location	ปลักน้ำทิ้งรวม
Date Analysis Commenced	Mar 05, 2024
Condition of Sample	Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	7	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	7	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.6	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	38.2	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	104	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Nattawut Athomprommarat โทรเลขเลขที่ 7-323-9-0006

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
โทรเลขเลขที่ 7-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทรเลขเลขที่ 7-323-9-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2422316
Date Received : Mar 05, 2024
Date Reported : Mar 12, 2024
Report Number : 2920491-1

Page 2 of 2

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
โทรเลขเลขที่ 7-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทรเลขเลขที่ 7-323-9-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

TESTING
No.0042
Lot ID: 2432501
Date Received : Apr 04, 2024
Date Reported : Apr 11, 2024
Report Number : 2944424-1

Page 1 of 2

Sample Number	2432501-1						
Sampled Date	Apr 04, 2024 11:20 AM						
Sample Description	Wastewater						
Location	ปลวกแดงโรงงาน						
Date Analysis Commenced	Apr 04, 2024						
Condition of Sample	Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	5	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.4	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	27	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Narunat thammassaro โทรเลขเลขที่ 3-323-9-9447

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
โทรเลขเลขที่ 3-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทรเลขเลขที่ 3-323-9-9442

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224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

TESTING
No.0042
Lot ID: 2432501
Date Received : Apr 04, 2024
Date Reported : Apr 11, 2024
Report Number : 2944424-1

Page 2 of 2

Remark :

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Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
โทรเลขเลขที่ 3-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทรเลขเลขที่ 3-323-9-9442

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Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING
No.0042

Lot ID: 2444054

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 2969637-1

Page 1 of 2

Sample Number	2444054-1						
Sampled Date	May 03, 2024 10:44 AM						
Sample Description	Wastewater						
Location	ปลัดหินน้ำพุร้อน						
Date Analysis Commenced	May 03, 2024						
Condition of Sample	Contained in two glass vials, two amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	<5	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	36.5	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	160	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Surawit Narapong ทะเบียนเลขที่ ร-323-ร-0011 , Samart Khumphlee ทะเบียนเลขที่ ร-204-ร-0084

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ร-323-ร-9445

Approved by

D. Chongchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ร-323-ร-9442

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Analysis / Test Report

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224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING
No.0042

Lot ID: 2444054

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 2969637-1

Page 2 of 2

Remark :
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- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	<5	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	<5	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	36.5	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	160	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor

ทะเบียนเลขที่ ร-323-ร-9445

Approved by

D. Chongchon

Dej Changchon
Senior Manager

ทะเบียนเลขที่ ร-323-ร-9442

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224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location: GTS3



TESTING
No.0009

Lot ID: 2444054
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969637-2

Page 1 of 5

Sample Number	2444054-1
Sampled Date	May 03, 2024 10:44 AM
Sample Description	Wastewater
Location	บ่อกักน้ำทิ้งรวม
Date Analysis Commenced	May 06, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Arsenic	mg/L	0.0003	0.0005	<0.0005	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.03	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.0006	≤2.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok

Technical Management

Chanatt L.

Chanattagarn Imchom
Section Head
โทรเลขเบอร์ 7-204-0-0008

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
โทรเลขเบอร์ 7-204-0-0004

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location: GTS3



TESTING
No.0009

Lot ID: 2444054
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969637-2

Page 2 of 5

Sample Number	2444054-1
Sampled Date	May 03, 2024 10:44 AM
Sample Description	Wastewater
Location	บ่อกักน้ำทิ้งรวม
Date Analysis Commenced	May 06, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Nickel	mg/L	0.0003	0.0005	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.02	≤5.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Pesticides - Organochlorine Group							
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

Technical Management

Chanatt L.

Chanattagarn Imchom
Section Head
โทรเลขเบอร์ 7-204-0-0008

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager
โทรเลขเบอร์ 7-204-0-0004

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0009
Lot ID: 2444054
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969637-2

Page 3 of 5

Sample Number	2444054-1
Sampled Date	May 03, 2024 10:44 AM
Sample Description	Wastewater
Location	บ่อกักน้ำทิ้งรวม
Date Analysis Commenced	May 06, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

Technical Management

Chanatt L.

Chanattagam Imchom
Section Head

โทรเลขเลขที่ 7-204-0-0008

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

โทรเลขเลขที่ 7-204-0-0004

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0009
Lot ID: 2444054
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969637-2

Page 4 of 5

Sample Number	2444054-1
Sampled Date	May 03, 2024 10:44 AM
Sample Description	Wastewater
Location	บ่อกักน้ำทิ้งรวม
Date Analysis Commenced	May 06, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Chlordane *	ug/L	0.02	0.04	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Endosulfan I *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Endosulfan II *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

Technical Management

Chanatt L.

Chanattagam Imchom
Section Head

โทรเลขเลขที่ 7-204-0-0008

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

โทรเลขเลขที่ 7-204-0-0004

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING

No.0009

Lot ID: 2444054

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 2969637-2

Page 5 of 5

Sample Number	2444054-1
Sampled Date	May 03, 2024 10:44 AM
Sample Description	Wastewater
Location	ปลวกน้ำทิ้งรวม
Date Analysis Commenced	May 06, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Pesticides - Organochlorine Group							
Heptachlor-Epoxide *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Lindane (gamma-BHC) *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Methoxychlor *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

Sampling By : Surawit Narapong โทรเลขเลขที่ 7-323-4-0011, Samart Khumphlee โทรเลขเลขที่ 7-204-4-0084

Remark :

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Technical Management

Chanatt L.

Chanattagam Imchom
Section Head

โทรเลขเลขที่ 7-204-4-0008

Approved by

Kanokkorn Anek

Kanokkorn Anek
Senior Manager

โทรเลขเลขที่ 7-204-4-0004

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING

No.0042

Lot ID: 2444054

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 2969637-3

Page 1 of 2

Sample Number	2444054-1
Sampled Date	May 03, 2024 10:44 AM
Sample Description	Wastewater
Location	ปลวกน้ำทิ้งรวม
Date Analysis Commenced	May 04, 2024
Condition of Sample	Contained in two glass vials, two amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Iron	mg/L	0.003	0.005	0.19	≤10.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Pesticides - Organochlorine Group							
alpha-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Hexachlorobenzene *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Mirex *	ug/L	0.01	0.02	Not Detected	Not Detected	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Water Testing							
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	<0.05	≤30	Based on Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5510 B, C	Bangkok
Chloride as Cl *	mg/L	0.5	1	73	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (D)	Rayong

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Approved by

N. Banongkit

Nanumon Banchongkit
Supervisor

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

TESTING
No.0042
Lot ID: 2444054
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969637-3

Sample Number	2444054-1						
Sampled Date	May 03, 2024 10:44 AM						
Sample Description	Wastewater						
Location	บ่อกำจัดน้ำทิ้งรวม						
Date Analysis Commenced	May 04, 2024						
Condition of Sample	Contained in two glass vials, two amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Fluoride	mg/L	0.05	0.2	<0.2	≤5	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-F (C)	Rayong
Odour *	-	-	-	Odourless	Non Objectionable	TIS, 257-2549	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Surawit Narapong , Samart Khumphlee

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Branch, DSS Accreditation No. 0009.
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Approved by

N. Banchongkit

Narumon Banchongkit
Supervisor

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

TESTING
No.0042
Lot ID: 2444054
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969637-4

Sample Number	2444054-1						
Sampled Date	May 03, 2024 10:44 AM						
Sample Description	Wastewater						
Location	บ่อกำจัดน้ำทิ้งรวม						
Date Analysis Commenced	May 03, 2024						
Condition of Sample	Contained in two glass vials, two amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
COD	mg/L	1.5	25	<25	≤750	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Phenol	mg/L	0.005	0.01	0.01	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	<1.0	≤100	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part NH3 (D)	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Surawit Narapong ทะเบียนเลขที่ 7-323-ก-0011 , Samart Khumphlee ทะเบียนเลขที่ 7-204-ก-0084

Remark :
- LOD : Limit of Detection

Technical Management

N. Banchongkit

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ 7-323-ก-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทะเบียนเลขที่ 7-323-ก-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

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Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING

No.0042

Lot ID: 2444054

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 2969637-4

Page 2 of 2

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING

No.0042

Lot ID: 2457536

Date Received : Jun 07, 2024

Date Reported : Jun 14, 2024

Report Number : 2998534-1

Page 1 of 2

Sample Number 2457536-1
Sampled Date Jun 07, 2024 10:17 AM
Sample Description Wastewater
Location ปลัดน้ำทิ้งรวม
Date Analysis Commenced Jun 07, 2024
Condition of Sample Contained in one amber glass bottle and two plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	15	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	14	≤600	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C		-	-	7.3	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	35.9	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	248	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.029/2567 : General Standards for Wastewater drainage into central wastewater treatment systems in Industrial Estates.

Sampling By : Narunat thammassaro โทรเลข 3-323-9-9477

Technical Management

N. Banthit

Narumon Banchongkit

Supervisor

โทรเลข 3-323-9-9445

Approved by

D. Chongchon

Dej Changchon

Senior Manager

โทรเลข 3-323-9-9442

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Technical Management

Chontichak

Chonticha Subongkoch

Scientist (3)

โทรเลข 3-323-9-9449

Approved by

D. Chongchon

Dej Changchon

Senior Manager

โทรเลข 3-323-9-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Piuak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

TESTING

No.0042

Lot ID: 2457536

Date Received : Jun 07, 2024

Date Reported : Jun 14, 2024

Report Number : 2998534-1

Page 2 of 2

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Technical Management

Chontichok

Chonticha Subongkoch
Scientist (3)

โทรศัพท์ 323-2-9449

Approved by

D. Changchon

Dej Changchon
Senior Manager

โทรศัพท์ 323-2-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 23144455
Date Received : Jan 08, 2024
Date Reported : Jan 16, 2024
Report Number : 2865767-1

Page 1 of 2

Sample Number 23144455-1
Sampled Date Jan 08, 2024 10:16 AM
Sample Description Wastewater
Location ปล่อยน้ำหล่อเย็น
Date Analysis Commenced Jan 08, 2024
Condition of Sample Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	14	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	14	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
pH at 25 degree C		-	-	8.4	5.5-9.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	≤34	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	772	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Surawit Narapong โทรศัพท์ ๖-323-๙-๐๐11 , Panupong Manit โทรศัพท์ ๖-204-๙-8600

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Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor
โทรศัพท์ ๖-323-๙-๙445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖-323-๙-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 23144455
Date Received : Jan 08, 2024
Date Reported : Jan 16, 2024
Report Number : 2865767-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banongkit

Narumon Banchongkit
Supervisor
โทรศัพท์ ๖-323-๙-๙445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทรศัพท์ ๖-323-๙-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 23144455

Date Received : Jan 08, 2024

Date Reported : Jan 16, 2024

Report Number : 2865767-2

Page 1 of 1

Sample Number	23144455-1
Sampled Date	Jan 08, 2024 10:16 AM
Sample Description	Wastewater
Location	ปลวกแด่งท่าเตียน
Date Analysis Commenced	Jan 09, 2024
Condition of Sample	Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Calcium	meq/L	0.003	0.005	3.91	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	meq/L	0.003	0.005	1.24	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	0.10	4.01	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	meq/L	0.003	0.005	6.43	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing								
Chlorite	mg/L	0.05	0.1	Not Detected	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	7.2	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

Guideline : Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Surawit Narapong อนุมัติ ๓-323-๓-0011, Panupong Manit อนุมัติ ๓-204-๓-8600

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Surawit N.

Surawit Naisangiam
Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS3



TESTING

No.0042

Lot ID: 242251

Date Received : Feb 02, 2024

Date Reported : Feb 09, 2024

Report Number : 2880042-1

Page 1 of 2

Sample Number	242251-1
Sampled Date	Feb 02, 2024 10:10 AM
Sample Description	Wastewater
Location	ปลวกแด่งท่าเตียน
Date Analysis Commenced	Feb 02, 2024
Condition of Sample	Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	15	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	13	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
pH at 25 degree C	-	-	-	8.3	5.5-9.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.7	≤40	≤34	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	772	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Narunat thammasaro อนุมัติ ๓-323-๓-9477, Samart Khumplhee อนุมัติ ๓-204-๓-7830

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

N. Banphit

Narunat Banphongkit
Supervisor

อนุมัติ ๓-323-๓-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

อนุมัติ ๓-323-๓-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 242251
Date Received : Feb 02, 2024
Date Reported : Feb 09, 2024
Report Number : 2880042-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 242251
Date Received : Feb 02, 2024
Date Reported : Feb 10, 2024
Report Number : 2880042-2

Page 1 of 1

Sample Number 242251-1
Sample Date Feb 02, 2024 10:10 AM
Sample Description Wastewater
Location โรงพักน้ำพลัดเนิน
Date Analysis Commenced Feb 05, 2024
Condition of Sample Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Calcium	meq/L	0.003	0.005	4.12	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	meq/L	0.003	0.005	1.28	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	0.10	3.89	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	meq/L	0.003	0.005	6.39	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing								
Chlorite	mg/L	0.05	0.1	Not Detected	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	7.4	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

Guideline : Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Narunat thammassaro โทร: 09-323-9-9477, Samart Khumplhee โทร: 09-204-9-7830

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
โทร: 09-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
โทร: 09-323-9-9442

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Approved by

Chamatt L.

Chanattagam Imchom
Section Head

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
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Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2422318
Date Received : Mar 05, 2024
Date Reported : Mar 13, 2024
Report Number : 2920493-1

Page 1 of 2

Sample Number 2422318-1
Sampled Date Mar 05, 2024 10:17 AM
Sample Description Wastewater
Location ปลัดน้ำพลัดเนิน
Date Analysis Commenced Mar 05, 2024
Condition of Sample Contained in ne BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	16	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	15	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
pH at 25 degree C		-	-	8.2	5.5-9.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.3	≤40	≤34	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	676	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Nattawat Athomprommarat โทร. 09-323-9-0006, Panupong Manit โทร. 09-204-9-0109

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

N. Bangphit

Narumon Banchongkit
Supervisor
โทร. 09-323-9-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
โทร. 09-323-9-9442

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Analysis / Test Report

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224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2422318
Date Received : Mar 05, 2024
Date Reported : Mar 13, 2024
Report Number : 2920493-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Bangphit

Narumon Banchongkit
Supervisor
โทร. 09-323-9-9445

Approved by

D. Chanchon

Dej Chanchon
Senior Manager
โทร. 09-323-9-9442

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Analysis / Test Report

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224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 2422318
Date Received : Mar 05, 2024
Date Reported : Mar 13, 2024
Report Number : 2920493-2

Page 1 of 1

Sample Number	2422318-1						
Sampled Date	Mar 05, 2024 10:17 AM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพละเค็ม						
Date Analysis Commenced	Mar 06, 2024						
Condition of Sample	Contained in ne BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Calcium	meq/L	0.003	0.005	3.74	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	meq/L	0.003	0.005	1.11	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	-	2.74	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	meq/L	0.003	0.005	4.28	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing								
Chlorite	mg/L	0.05	0.1	Not Detected	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.7	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

Guideline : Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Nattawut Athomprommarat รหัสประจำตัว 3-323-4-0006, Panupong Manit รหัสประจำตัว 3-204-4-0109

Remark :
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- "<" : Lower than LOQ (Limit of Quantitation) / LDR (Limit of Reporting)

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Approved by

Sawitree N.

Sawitree Nisangiam
Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042

Lot ID: 2432505
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944427-1

Page 1 of 2

Sample Number	2432505-1						
Sampled Date	Apr 04, 2024 11:10 AM						
Sample Description	Wastewater						
Location	บ่อกักน้ำพละเค็ม						
Date Analysis Commenced	Apr 04, 2024						
Condition of Sample	Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	13	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	12	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
pH at 25 degree C	-	-	-	8.0	5.5-9.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	30.4	≤40	≤34	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	544	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Narurat thammassaro รหัสประจำตัว 3-323-4-9477, Samart Khumplhee รหัสประจำตัว 3-204-4-0084

Remark :
- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
รหัสประจำตัว 3-323-4-9446

Approved by

Dej Changchon

Senior Manager
รหัสประจำตัว 3-323-4-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING

No.0042

Lot ID: 2432505

Date Received : Apr 04, 2024

Date Reported : Apr 12, 2024

Report Number : 2944427-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2432505

Date Received : Apr 04, 2024

Date Reported : Apr 12, 2024

Report Number : 2944427-2

Page 1 of 1

Sample Number	2432505-1							
Sampled Date	Apr 04, 2024 11:10 AM							
Sample Description	Wastewater							
Location	ปลวกแดงพัฒนา							
Date Analysis Commenced	Apr 05, 2024							
Condition of Sample	Contained in four plastic bottles and one BOD bottle, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Calcium	mg/L	0.003	0.005	3.30	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	mg/L	0.003	0.005	1.05	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR	-	-	-	2.13	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	mg/L	0.003	0.005	3.14	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing								
Chlorite	mg/L	0.05	0.1	<0.10	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	7.3	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

Guideline : Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Narunat thamasaro โทรเลข ๖-323-๙-9477, Samart Khumplee โทรเลข ๖-204-๙-0084

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

Photchana S.

Photchana Seeda

Scientist (4)

โทรเลข ๖-323-๙-9446

Approved by

Dej Changchon

Dej Changchon

Senior Manager

โทรเลข ๖-323-๙-9442

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Approved by

Suwimon C.

Suwimon Chairuangwut

Scientist (3)

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2444058
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969707-1

Page 1 of 2

Sample Number 2444058-1
Sampled Date May 03, 2024 10:19 AM
Sample Description Wastewater
Location ปลายทางท่อเดิน
Date Analysis Commenced May 03, 2024
Condition of Sample Contained in one BOD bottle, two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	18	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	17	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
pH at 25 degree C	-	-	-	8.0	5.5-9.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	33.4	≤40	≤34	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	864	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Surawit Narapong หน่วยงานที่ 3-323-3-0011, Samart Khumphlee หน่วยงานที่ 3-204-3-0084

Remark :

- LOD : Limit of Detection
- < : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
หน่วยงานที่ 3-323-3-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
หน่วยงานที่ 3-323-3-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2444058
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969707-1

Page 2 of 2

The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
หน่วยงานที่ 3-323-3-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
หน่วยงานที่ 3-323-3-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING

No.0009

Lot ID: 2444058

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 2969707-2

Page 1 of 5

Sample Number	2444058-1						
Sampled Date	May 03, 2024 10:19 AM						
Sample Description	Wastewater						
Location	ปลัดน้ำพลัด						
Date Analysis Commenced	May 06, 2024						
Condition of Sample	Contained in one BOD bottle, two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Arsenic	mg/L	0.0003	0.0005	0.004	≤0.25	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Barium	mg/L	0.0003	0.0005	0.24	≤1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Copper	mg/L	0.0003	0.0005	0.006	≤2.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3500-Cr B	Bangkok
Lead	mg/L	0.0003	0.0005	0.0006	≤0.20	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3112	Bangkok

Technical Management

Chanatt L.

Chanattagarn Imchom

Section Head

โทรศัพท์ ๖-204-๙-0008

Approved by

Kanokkorn Anek

Kanokkorn Anek

Senior Manager

โทรศัพท์ ๖-204-๙-0004

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING

No.0009

Lot ID: 2444058

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 2969707-2

Page 2 of 5

Sample Number	2444058-1						
Sampled Date	May 03, 2024 10:19 AM						
Sample Description	Wastewater						
Location	ปลัดน้ำพลัด						
Date Analysis Commenced	May 06, 2024						
Condition of Sample	Contained in one BOD bottle, two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Nickel	mg/L	0.0003	0.0005	0.02	≤1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Zinc	mg/L	0.003	0.005	0.37	≤5.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 3125 B, 3030 F	Bangkok
Pesticides - Organochlorine Group								
2,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
2,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
2,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

Technical Management

Chanatt L.

Chanattagarn Imchom

Section Head

โทรศัพท์ ๖-204-๙-0008

Approved by

Kanokkorn Anek

Kanokkorn Anek

Senior Manager

โทรศัพท์ ๖-204-๙-0004

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0009
Lot ID: 2444058
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969707-2

Page 3 of 5

Sample Number	2444058-1
Sampled Date	May 03, 2024 10:19 AM
Sample Description	Wastewater
Location	บ่อกักน้ำผิวดิน
Date Analysis Commenced	May 06, 2024
Condition of Sample	Contained in one BOD bottle, two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Pesticides - Organochlorine Group								
4,4-DDD *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
4,4-DDE *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
4,4-DDT *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Aldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
alpha-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
beta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Chlordane *	ug/L	0.02	0.04	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

Technical Management

Chanatt L.

Chanattagam Imchom
Section Head
โทรศัพท์ ๖-204-๖-0008

Approved by

Kanok Anek

Kanokkom Anek
Senior Manager
โทรศัพท์ ๖-204-๖-0004

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0009
Lot ID: 2444058
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969707-2

Page 4 of 5

Sample Number	2444058-1
Sampled Date	May 03, 2024 10:19 AM
Sample Description	Wastewater
Location	บ่อกักน้ำผิวดิน
Date Analysis Commenced	May 06, 2024
Condition of Sample	Contained in one BOD bottle, two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Pesticides - Organochlorine Group								
delta-BHC *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Dieldrin *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Endosulfan I *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Endosulfan II *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Endrin *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Heptachlor *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Heptachlor-Epoxyde *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

Technical Management

Chanatt L.

Chanattagam Imchom
Section Head
โทรศัพท์ ๖-204-๖-0008

Approved by

Kanok Anek

Kanokkom Anek
Senior Manager
โทรศัพท์ ๖-204-๖-0004

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING

No.0009

Lot ID: 2444058

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 2969707-2

Page 5 of 5

Sample Number	2444058-1						
Sampled Date	May 03, 2024 10:19 AM						
Sample Description	Wastewater						
Location	บ่อกำจัดน้ำเสีย						
Date Analysis Commenced	May 06, 2024						
Condition of Sample	Contained in one BOD bottle, two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Pesticides - Organochlorine Group								
Lindane (gamma-BHC) *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Methoxychlor *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok

Guideline : Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : สุรวิต นารอง ระบุใบตรวจ ร-323-ก-0011, Samart Khumphlee ระบุใบตรวจ ร-204-ก-0084

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Chanatt L.

Chanattagam Inthom
Section Head
ระบุใบตรวจ ร-204-ก-0008

Approved by

Kanokkom Anek

Kanokkom Anek
Senior Manager
ระบุใบตรวจ ร-204-ก-0004

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3



TESTING

No.0042

Lot ID: 2444058

Date Received : May 03, 2024

Date Reported : May 11, 2024

Report Number : 2969707-3

Page 1 of 2

Sample Number	2444058-1						
Sampled Date	May 03, 2024 10:19 AM						
Sample Description	Wastewater						
Location	บ่อกำจัดน้ำเสีย						
Date Analysis Commenced	May 04, 2024						
Condition of Sample	Contained in one BOD bottle, two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Calcium	meq/L	0.003	0.005	4.33	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	meq/L	0.003	0.005	1.30	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	meq/L	0.003	0.005	5.95	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Pesticides - Organochlorine Group								
alpha-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
gamma-Chlordane *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Hexachlorobenzene *	ug/L	0.01	0.02	Not Detected	Not Detected	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Mirex *	ug/L	0.01	0.02	Not Detected	No Standard	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 6630 D, part 6410 B	Bangkok
Water Testing								
Odour *	-	-	-	Odourless	No Standard	No Standard	TIS, 257-2549	Rayong

Approved by

Chanatt L.

Chanattagam Inthom
Section Head

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2444058
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969707-3

Page 2 of 2

Guideline : Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Surawit Narapong โทรศัพท์ ๖-323-๙-0011 , Samart Khumplinee โทรศัพท์ ๖-204-๙-0084

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2444058
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969707-4

Page 1 of 2

Sample Number	2444058-1							
Sampled Date	May 03, 2024 10:19 AM							
Sample Description	Wastewater							
Location	โรงพักน้ำพลัดเนิน							
Date Analysis Commenced	May 03, 2024							
Condition of Sample	Contained in one BOD bottle, two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
COD	mg/L	1.5	25	42	≤120	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Cyanide as CN	mg/L	0.001	0.005	0.005	≤0.2	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CN (C, E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1.0	No Standard	Wastewater analysis manual, Environmental Engineering Association of Thailand, 4th ed., 2004	Rayong
Oil & Grease	mg/L	-	3	<3	≤5	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
Phenol	mg/L	0.005	0.01	Not Detected	≤1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-S2 (C, F)	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	<1.0	≤100	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Norg (C), part Nf3 (D)	Rayong

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Chanatt L.
Chanattagarn Imchom
Section Head

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Technical Management

N. Banphongkit
Narumon Banphongkit
Supervisor
โทรศัพท์ ๖-323-๙-9445

Approved by

D. Changchon
Dej Changchon
Senior Manager
โทรศัพท์ ๖-323-๙-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2444058
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969707-4

Page 2 of 2

Guideline : Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Surawit Narapong ทรัพย์สินทางปัญญา รว-323-จ-0011, Samart Khumphlee ทรัพย์สินทางปัญญา รว-204-จ-0084

Remark :

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasil, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 2444058
Date Received : May 03, 2024
Date Reported : May 11, 2024
Report Number : 2969707-5

Page 1 of 1

Sample Number 2444058-1
Sampled Date May 03, 2024 10:19 AM
Sample Description Wastewater
Location ปลวกน้ำคลองเย็น
Date Analysis Commenced May 06, 2024
Condition of Sample Contained in one BOD bottle, two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
SAR		-	0.10	3.54	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing								
Chlorite	mg/L	0.05	0.1	<0.10	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen	mg/L	-	0.1	6.8	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

Guideline : Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Surawit Narapong ทรัพย์สินทางปัญญา รว-323-จ-0011, Samart Khumphlee ทรัพย์สินทางปัญญา รว-204-จ-0084

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor
ทรัพย์สินทางปัญญา รว-323-จ-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager
ทรัพย์สินทางปัญญา รว-323-จ-9442

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Approved by

Chanatt L.

Chanattagarn Imchom
Section Head

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2444057
Date Received : Jun 07, 2024
Date Reported : Jun 14, 2024
Report Number : 2969642-1

Page 1 of 2

Sample Number 2444057-1
Sampled Date Jun 07, 2024 9:58 AM
Sample Description Wastewater
Location มลพิษน้ำพลูแอง
Date Analysis Commenced Jun 07, 2024
Condition of Sample Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Water Testing								
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤20	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
Color (at Original pH)	ADMI	-	5	28	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	28	≤300	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2120 F	Rayong
pH at 25 degree C		-	-	7.9	5.5-9.0	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Temperature *	Degree C	-	-	32.3	≤40	≤34	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1040	≤3000	≤1300	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤50	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Narunat thammasaro โทรเลขเลขที่ 3-323-9-9477, Kardbundi Kitisupavanit โทรเลขเลขที่ 3-204-9-0001

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Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรเลขเลขที่ 3-323-9-9446

Approved by

D. Chuan

Dej Changchon
Senior Manager
โทรเลขเลขที่ 3-323-9-9442

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Analysis / Test Report

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224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2444057
Date Received : Jun 07, 2024
Date Reported : Jun 14, 2024
Report Number : 2969642-1

Page 2 of 2

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management

Photchana S.

Photchana Seeda
Scientist (4)
โทรเลขเลขที่ 3-323-9-9446

Approved by

D. Chuan

Dej Changchon
Senior Manager
โทรเลขเลขที่ 3-323-9-9442

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
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Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

TESTING
No.0009
Lot ID: 2444057
Date Received : Jun 07, 2024
Date Reported : Jun 15, 2024
Report Number : 2969642-2

Page 1 of 1

Sample Number	2444057-1							
Sampled Date	Jun 07, 2024 9:58 AM							
Sample Description	Wastewater							
Location	น้ำทิ้งจากท่อระบายน้ำ							
Date Analysis Commenced	Jun 10, 2024							
Condition of Sample	Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)							
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline (1)	Guideline (2)	Method	Testing Location
Metals Testing								
Calcium	meq/L	0.003	0.005	5.09	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium	meq/L	0.003	0.005	1.55	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	0.10	3.73	No Standard	0-10	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium	meq/L	0.003	0.005	6.79	No Standard	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing								
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	≤1.0	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.3	No Standard	≥4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong

Guideline (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).
Guideline (2) : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

Sampling By : Narurat thammassaro , Kardbundit Kitisupavanit

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Approved by

Suwimon C.

Suwimon Chainuangwut
Scientist (3)

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2432508
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944428-1

Page 1 of 12

Sample Number 2432508-1
Sampled Date Apr 04, 2024 2:25 PM
Sample Description Surface water
Location คลองท่าเหมอิมเขตพื้นที่นา 200 เมตร
Date Analysis Commenced Apr 04, 2024
Condition of Sample Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium *	meq/L	0.003	0.005	1.66	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	meq/L	0.003	0.005	0.52	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	3.62	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	meq/L	0.003	0.005	3.78	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
BOD *	mg/L	-	2	10.7	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	2.6	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	8.2	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

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Approved by

D. Changchon
Dej Changchon
Senior Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2432508
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944428-1

Page 2 of 12

Sample Number 2432508-1
Sampled Date Apr 04, 2024 2:25 PM
Sample Description Surface water
Location คลองท่าเหมอิมเขตพื้นที่นา 200 เมตร
Date Analysis Commenced Apr 04, 2024
Condition of Sample Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	36.0	n/	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	444	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	18	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
n/ : Change from Natural condition not more than 3 degree C
Sampling By : Narunat thammassaro

Remark :

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- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Branch, DSS Accreditation No. 0009.
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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2432508
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944428-1

Page 3 of 12

Sample Number 2432508-2
Sampled Date Apr 04, 2024 2:45 PM
Sample Description Surface water
Location คลองระยอง เหนือเขตกั้นที่ดินนา 200 เมตร
Date Analysis Commenced Apr 04, 2024
Condition of Sample Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium *	meq/L	0.003	0.005	1.09	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	meq/L	0.003	0.005	0.40	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	4.60	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	meq/L	0.003	0.005	3.96	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.8	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	7.9	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
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Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2432508
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944428-1

Page 4 of 12

Sample Number 2432508-2
Sampled Date Apr 04, 2024 2:45 PM
Sample Description Surface water
Location คลองระยอง เหนือเขตกั้นที่ดินนา 200 เมตร
Date Analysis Commenced Apr 04, 2024
Condition of Sample Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	33.6	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	344	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	6	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
n': Change from Natural condition not more than 3 degree C
Sampling By : Narurat thammasaro

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

TESTING
No.0042
Lot ID: 2432508
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944428-1

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Sample Number 2432508-3
Sampled Date Apr 04, 2024 2:00 PM
Sample Description Surface water
Location คลองท่า หลั่งผ่านจุดกึ่งน้ำของคันนา 200 เมตร
Date Analysis Commenced Apr 04, 2024
Condition of Sample Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium *	meq/L	0.003	0.005	2.01	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	meq/L	0.003	0.005	0.61	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	3.95	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	meq/L	0.003	0.005	4.52	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	4.7	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	7.7	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3

TESTING
No.0042
Lot ID: 2432508
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944428-1

Page 5 of 12

Sample Number 2432508-3
Sampled Date Apr 04, 2024 2:00 PM
Sample Description Surface water
Location คลองท่า หลั่งผ่านจุดกึ่งน้ำของคันนา 200 เมตร
Date Analysis Commenced Apr 04, 2024
Condition of Sample Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	33.1	n'	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	524	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	7	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
n's Change from Natural condition not more than 3 degree C
Sampling By : Narurat thammasaro

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Analysis / Test Report



TESTING
No.0042

Lot ID: 2432508

Date Received : Apr 04, 2024

Date Reported : Apr 12, 2024

Report Number : 2944428-1

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location: GTS3

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Sample Number	2432508-4
Sampled Date	Apr 04, 2024 3:15 PM
Sample Description	Surface water
Location	คลองระบอง คลองน้ำท่าบริเวณทาง 200 เมตร
Date Analysis Commenced	Apr 04, 2024
Condition of Sample	Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium *	meq/L	0.003	0.005	1.76	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	meq/L	0.003	0.005	0.61	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	2.69	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	meq/L	0.003	0.005	2.93	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
BOD *	mg/L	-	2	<2.0	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	5.9	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	7.6	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

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Analysis / Test Report



TESTING
No.0042

Lot ID: 2432508

Date Received : Apr 04, 2024

Date Reported : Apr 12, 2024

Report Number : 2944428-1

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong

Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location: GTS3

Page 8 of 12

Sample Number	2432508-4
Sampled Date	Apr 04, 2024 3:15 PM
Sample Description	Surface water
Location	คลองระบอง คลองน้ำท่าบริเวณทาง 200 เมตร
Date Analysis Commenced	Apr 04, 2024
Condition of Sample	Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	32.3	n'	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	396	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	158	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)

n': Change from Natural condition not more than 3 degree C

Sampling By : Narurat thamasaro

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2432508
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944428-1

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Sample Number	2432508-5						
Sampled Date	Apr 04, 2024 3:35 PM						
Sample Description	Surface water						
Location	อ่างเก็บน้ำหนองปลาไหล ห่างจากท่าอากาศยานสุวรรณภูมิประมาณ 2 กม.						
Date Analysis Commenced	Apr 04, 2024						
Condition of Sample	Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium *	mg/L	0.003	0.005	0.99	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	mg/L	0.003	0.005	0.34	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	1.82	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	mg/L	0.003	0.005	1.49	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
BOD *	mg/L	-	2	3.5	≤4	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	8.1	≥2	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	8.4	5.0-9.0	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042
Lot ID: 2432508
Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944428-1

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Sample Number	2432508-5						
Sampled Date	Apr 04, 2024 3:35 PM						
Sample Description	Surface water						
Location	อ่างเก็บน้ำหนองปลาไหล ห่างจากท่าอากาศยานสุวรรณภูมิประมาณ 2 กม.						
Date Analysis Commenced	Apr 04, 2024						
Condition of Sample	Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	34.3	n ¹	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	180	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	35	No Standard	Standard Methods for the Examination of Water and Wastewater, APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act. B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
n¹: Change from Natural condition not more than 3 degree C
Sampling By : Narurat thammassaro

Remark :

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- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042

Lot ID: 2432508

Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944428-1

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Sample Number	2432508-6						
Sampled Date	Apr 04, 2024 3:50 PM						
Sample Description	Surface water						
Location	อ่างเก็บน้ำหนองปลาไหล ห่างจากท่าอากาศยานสุวรรณภูมิ 4 กม						
Date Analysis Commenced	Apr 04, 2024						
Condition of Sample	Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Metals Testing							
Calcium *	meq/L	0.003	0.005	0.94	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Magnesium *	meq/L	0.003	0.005	0.33	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
SAR *	-	-	-	1.80	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Sodium *	meq/L	0.003	0.005	1.43	No Standard	In-house method : STM 05-014 based on United States Environmental Protection Agency, 1994, EPA Method 200.7	Bangkok
Water Testing							
BOD *	mg/L	-	2	2.5	≤4	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O C	Rayong
Chlorite *	mg/L	0.05	0.1	Not Detected	No Standard	In-house method : STM 04-061 based on United States Environmental Protection Agency, 1999, EPA Method 300.1	Bangkok
Dissolved Oxygen *	mg/L	-	0.1	6.1	≥2	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-O (C)	Rayong
pH at 25 degree C	-	-	-	8.4	5.0-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong
Thailand 21140
P/O : 4210402620
Project Name : Monitoring EIA
Project Location : GTS3



TESTING
No.0042

Lot ID: 2432508

Date Received : Apr 04, 2024
Date Reported : Apr 12, 2024
Report Number : 2944428-1

Page 12 of 12

Sample Number	2432508-6						
Sampled Date	Apr 04, 2024 3:50 PM						
Sample Description	Surface water						
Location	อ่างเก็บน้ำหนองปลาไหล ห่างจากท่าอากาศยานสุวรรณภูมิ 4 กม						
Date Analysis Commenced	Apr 04, 2024						
Condition of Sample	Contained in one BOD bottle and four plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Temperature *	Degree C	-	-	34.6	n ^a	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	198	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C *	mg/L	-	5	45	No Standard	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the National Environmental Board, No. 8, B.E.2537 issued under the Enhancement and Conservation of National Environmental Quality Act, B.E.2535, published in the Royal Government Gazette, Vol. 111, Part 16, Dated February 24, B.E. 2537 (Class 4)
n': Change from Natural condition not more than 3 degree C
Sampling By : Narurat thammassaro

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co., Ltd. Bangkok Branch, DSS Accreditation No. 00009.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.

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ระดับเสียงภายในสถานประกอบการ



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 246673

Date Received : Feb 15, 2024

Date Reported : Feb 20, 2024

Report Number: 2915674-1

Page 1 of 1

Sample Number	246673-1
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Cooling Tower
Measurement Date	Feb 14, 2024
Measurement by	Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:30 AM - 10:30 AM	79.1	88.5	78.9
10:30 AM - 11:30 AM	79.0	79.9	78.8
11:30 AM - 12:30 PM	78.9	79.8	78.7
12:30 PM - 01:30 PM	78.8	80.8	78.6
01:30 PM - 02:30 PM	78.8	79.6	78.6
02:30 PM - 03:30 PM	78.9	79.8	78.7
03:30 PM - 04:30 PM	79.0	80.4	78.8
04:30 PM - 05:30 PM	79.1	80.0	78.9
Leq Average 8 hrs. (dB(A))	79.0		
Lmax (dB(A))		88.5	
Standard (dB(A))	85	140	
Reference Method	: ISO1996-1 and 1996-2		
Standard	: Environmental Impact Assessment Report of Gulf TS3 Co., Ltd. ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๖๖		



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 246673

Date Received : Feb 15, 2024

Date Reported : Feb 20, 2024

Report Number: 2915675-1

Page 1 of 1

Sample Number	246673-2
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Boiler Feed Pump
Measurement Date	Feb 14, 2024
Measurement by	Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:40 AM - 10:40 AM	79.9	82.4	79.6
10:40 AM - 11:40 AM	80.6	84.3	79.6
11:40 AM - 12:40 PM	83.2	99.5	81.3
12:40 PM - 01:40 PM	82.0	83.3	81.8
01:40 PM - 02:40 PM	81.9	83.5	81.7
02:40 PM - 03:40 PM	82.0	85.1	81.7
03:40 PM - 04:40 PM	82.1	83.7	81.9
04:40 PM - 05:40 PM	82.8	99.1	80.9
Leq Average 8 hrs. (dB(A))	81.9		
Lmax (dB(A))		99.5	
Standard (dB(A))	85	140	
Reference Method	: ISO1996-1 and 1996-2		
Standard	: Environmental Impact Assessment Report of Gulf TS3 Co., Ltd. ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๖๖		

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 246673

Date Received : Feb 15, 2024

Date Reported : Feb 20, 2024

Report Number: 2915676-1

Page 1 of 1

Sample Number 246673-3
Parameter Noise (Leq 8 hrs.)
Location บริเวณ Gas Metering
Measurement Date Feb 14, 2024
Measurement by Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:45 AM - 10:45 AM	61.3	72.7	60.3
10:45 AM - 11:45 AM	61.9	74.2	60.3
11:45 AM - 12:45 PM	62.8	80.0	61.9
12:45 PM - 01:45 PM	64.1	72.6	63.4
01:45 PM - 02:45 PM	64.5	69.6	64.0
02:45 PM - 03:45 PM	64.3	70.0	63.9
03:45 PM - 04:45 PM	64.7	70.4	64.1
04:45 PM - 05:45 PM	64.4	70.1	63.8

Leq Average 8 hrs. (dB(A))

63.7

Lmax (dB(A))

80.0

Standard (dB(A))

85

140

Reference Method : ISO1996-1 and 1996-2

Standard : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 246673

Date Received : Feb 15, 2024

Date Reported : Feb 20, 2024

Report Number: 2915677-1

Page 1 of 1

Sample Number 246673-4
Parameter Noise (Leq 8 hrs.)
Location บริเวณ Gas Turbine Accessories System (ถังกลางระหว่าง GTG 11 และ GTG12)
Measurement Date Feb 14, 2024
Measurement by Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:25 AM - 10:25 AM	75.2	77.0	74.5
10:25 AM - 11:25 AM	75.7	77.9	75.0
11:25 AM - 12:25 PM	75.7	83.3	74.8
12:25 PM - 01:25 PM	75.3	76.9	74.8
01:25 PM - 02:25 PM	75.5	77.1	75.1
02:25 PM - 03:25 PM	75.9	77.0	75.5
03:25 PM - 04:25 PM	76.3	77.9	75.7
04:25 PM - 05:25 PM	75.6	77.4	74.9

Leq Average 8 hrs. (dB(A))

75.7

Lmax (dB(A))

83.3

Standard (dB(A))

85

140

Reference Method : ISO1996-1 and 1996-2

Standard : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 2114C

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 246673

Date Received : Feb 15, 2024

Date Reported : Feb 20, 2024

Report Number: 2915678-1

Page 1 of 1

Sample Number	246673-5
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Steam Turbine Generator
Measurement Date	Feb 14, 2024
Measurement by	Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:30 AM - 10:30 AM	80.9	81.3	80.8
10:30 AM - 11:30 AM	80.9	83.5	80.7
11:30 AM - 12:30 PM	84.2	105.2	81.0
12:30 PM - 01:30 PM	82.4	89.8	81.6
01:30 PM - 02:30 PM	82.4	85.9	82.1
02:30 PM - 03:30 PM	82.4	86.2	82.0
03:30 PM - 04:30 PM	82.6	84.9	82.3
04:30 PM - 05:30 PM	82.4	84.7	82.1
Leq Average 8 hrs. (dB(A))	82.4		
Lmax (dB(A))		105.2	
Standard (dB(A))	85	140	
Reference Method	: ISO1996-1 and 1996-2		
Standard	: Environmental Impact Assessment Report of Gulf TS3 Co., Ltd. ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๖๖		



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 2114C

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 246673

Date Received : Feb 15, 2024

Date Reported : Feb 20, 2024

Report Number: 2915679-1

Page 1 of 1

Sample Number	246673-6
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Steam Turbine Lube Oil Skid
Measurement Date	Feb 14, 2024
Measurement by	Chanon Booncheun

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:30 AM - 10:30 AM	74.4	90.8	73.9
10:30 AM - 11:30 AM	74.4	77.7	73.9
11:30 AM - 12:30 PM	74.3	77.4	73.8
12:30 PM - 01:30 PM	73.6	75.8	72.9
01:30 PM - 02:30 PM	73.9	75.9	73.2
02:30 PM - 03:30 PM	73.9	75.1	73.2
03:30 PM - 04:30 PM	73.9	75.1	73.3
04:30 PM - 05:30 PM	73.8	75.0	73.2
Leq Average 8 hrs. (dB(A))	74.0		
Lmax (dB(A))		90.8	
Standard (dB(A))	85	140	
Reference Method	: ISO1996-1 and 1996-2		
Standard	: Environmental Impact Assessment Report of Gulf TS3 Co., Ltd. ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๖๖		

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443970

Date Received : May 10, 2024

Date Reported : May 15, 2024

Report Number: 2991662-1

Page 1 of 1

Sample Number 2443970-1
Parameter Noise (Leq 8 hrs.)
Location บริเวณ Cooling Tower
Measurement Date May 08, 2024
Measurement by Prasarnmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:44 AM - 09:44 AM	77.6	91.9	75.5
09:44 AM - 10:44 AM	75.9	79.1	75.8
10:44 AM - 11:44 AM	76.0	77.9	75.9
11:44 AM - 12:44 PM	76.1	77.4	76.1
12:44 PM - 01:44 PM	76.1	76.4	76.0
01:44 PM - 02:44 PM	76.0	78.8	76.0
02:44 PM - 03:44 PM	76.0	79.0	76.0
03:44 PM - 04:44 PM	76.1	88.7	76.0

Leq Average 8 hrs. (dB(A))

76.3

Lmax (dB(A))

91.9

Standard (dB(A))

85

140

Reference Method : ISO1996-1 and 1996-2

Standard : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443970

Date Received : May 10, 2024

Date Reported : May 15, 2024

Report Number: 2991663-1

Page 1 of 1

Sample Number 2443970-2
Parameter Noise (Leq 8 hrs.)
Location บริเวณ Boiler Feed Pump
Measurement Date May 08, 2024
Measurement by Prasarnmit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	81.7	84.4	81.4
09:30 AM - 10:30 AM	81.5	82.6	81.3
10:30 AM - 11:30 AM	81.4	82.7	81.2
11:30 AM - 12:30 PM	81.0	82.4	80.3
12:30 PM - 01:30 PM	81.1	82.1	80.8
01:30 PM - 02:30 PM	81.1	82.3	80.9
02:30 PM - 03:30 PM	81.3	82.4	81.1
03:30 PM - 04:30 PM	81.4	82.7	81.1

Leq Average 8 hrs. (dB(A))

81.3

Lmax (dB(A))

84.4

Standard (dB(A))

85

140

Reference Method : ISO1996-1 and 1996-2

Standard : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

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Approved by

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443970

Date Received : May 10, 2024

Date Reported : May 15, 2024

Report Number: 2991664-1

Page 1 of 1

Sample Number	2443970-3
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Gas Metering
Measurement Date	May 08, 2024
Measurement by	Prasarnit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:24 AM - 09:24 AM	65.6	79.5	65.2
09:24 AM - 10:24 AM	65.6	72.2	65.2
10:24 AM - 11:24 AM	65.5	70.9	65.1
11:24 AM - 12:24 PM	64.0	68.6	63.3
12:24 PM - 01:24 PM	65.1	70.4	63.8
01:24 PM - 02:24 PM	66.0	82.8	65.0
02:24 PM - 03:24 PM	65.8	82.3	64.9
03:24 PM - 04:24 PM	65.4	69.7	65.0
Leq Average 8 hrs. (dB(A))	65.4		
Lmax (dB(A))		82.8	
Standard (dB(A))	85	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd. ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443970

Date Received : May 10, 2024

Date Reported : May 15, 2024

Report Number: 2991665-1

Page 1 of 1

Sample Number	2443970-4
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Gas Turbine Accessories System (คานาการระหว่าง GTG 11 และ GTG12)
Measurement Date	May 08, 2024
Measurement by	Prasarnit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:32 AM - 09:32 AM	76.5	82.4	75.5
09:32 AM - 10:32 AM	75.5	76.7	75.2
10:32 AM - 11:32 AM	75.1	76.0	74.8
11:32 AM - 12:32 PM	75.6	76.7	75.2
12:32 PM - 01:32 PM	75.8	77.1	75.4
01:32 PM - 02:32 PM	75.7	86.0	75.3
02:32 PM - 03:32 PM	75.8	77.4	75.4
03:32 PM - 04:32 PM	76.0	77.4	75.5
Leq Average 8 hrs. (dB(A))	75.8		
Lmax (dB(A))		86.0	
Standard (dB(A))	85	140	
Reference Method : ISO1996-1 and 1996-2			
Standard : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd. ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖			

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Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443970

Date Received : May 10, 2024

Date Reported : May 15, 2024

Report Number: 2991666-1

Page 1 of 1

Sample Number	2443970-5
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Steam Turbine Generator
Measurement Date	May 08, 2024
Measurement by	Prasannit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:35 AM - 09:35 AM	77.3	84.7	77.0
09:35 AM - 10:35 AM	76.8	79.4	76.6
10:35 AM - 11:35 AM	76.6	79.1	76.3
11:35 AM - 12:35 PM	76.3	78.0	75.9
12:35 PM - 01:35 PM	76.3	77.9	76.1
01:35 PM - 02:35 PM	76.2	79.2	76.0
02:35 PM - 03:35 PM	76.3	79.2	76.0
03:35 PM - 04:35 PM	76.5	79.6	76.3

Leq Average 8 hrs. (dB(A))

76.6

Lmax (dB(A))

84.7

Standard (dB(A))

85

140

Reference Method : ISO1996-1 and 1996-2

Standard : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443970

Date Received : May 10, 2024

Date Reported : May 15, 2024

Report Number: 2991667-1

Page 1 of 1

Sample Number	2443970-6
Parameter	Noise (Leq 8 hrs.)
Location	บริเวณ Steam Turbine Lube Oil Skid
Measurement Date	May 08, 2024
Measurement by	Prasannit Kueanpet

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	72.6	80.5	71.0
09:30 AM - 10:30 AM	73.1	75.0	72.7
10:30 AM - 11:30 AM	72.7	76.6	72.0
11:30 AM - 12:30 PM	70.8	78.4	69.3
12:30 PM - 01:30 PM	71.5	73.5	69.4
01:30 PM - 02:30 PM	72.2	73.9	71.7
02:30 PM - 03:30 PM	72.2	74.2	71.7
03:30 PM - 04:30 PM	72.7	75.3	72.2

Leq Average 8 hrs. (dB(A))

72.3

Lmax (dB(A))

80.5

Standard (dB(A))

85

140

Reference Method : ISO1996-1 and 1996-2

Standard : Environmental Impact Assessment Report of Gulf TS3 Co., Ltd.

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ความร้อนภายในสถานประกอบการ



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng,
Rayong Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 246678
Date Received : Feb 16, 2024
Date Reported : Feb 19, 2024
Report Number: 2888821-1

Page 1 of 4

Sample Number	246678-1				
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)				
Measurement Date	Feb 15, 2024				
Measurement by	Amnat Wongsakhe				
Location	ปลั๊กพัดลม 1 ชั้นที่ (ผ้า-นางสาว อุบลรัตน์ : - แทน : -)				
Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Condenser exhaust unit	120	28.3	25.5	35.3	33.7
Average (WBGT)		28.3			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
- Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

Technical Management

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng,
Rayong Thailand 21140
P/O : 4210402483
Project Name : Monitoring EIA
Project Location : GTS3

Lot ID: 246678
Date Received : Feb 16, 2024
Date Reported : Feb 19, 2024
Report Number: 2888821-1

Page 2 of 4

Sample Number	246578-2				
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)				
Measurement Date	Feb 15, 2024				
Measurement by	Amnat Wongsakhe				
Location	ปลั๊กพัดลม 1 ชั้นที่ (ผ้า-นางสาว อุบลรัตน์ : - แทน : -)				
Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณท่อผ่านถังไอน้ำ	120	29.6	26.6	36.8	35.9
Average (WBGT)		29.6			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
- Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

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P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 246678

Date Received : Feb 16, 2024

Date Reported : Feb 19, 2024

Report Number: 2888821-1

Page 3 of 4

Sample Number	246678-3				
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)				
Measurement Date	Feb 15, 2024				
Measurement by	Amnat Wongsakhe				
Location	ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)				
Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Generator	120	29.7	26.8	36.7	35.6
Average (WBGT)		29.7			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

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Rayong Thailand 21140

P/O : 4210402483

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 246678

Date Received : Feb 16, 2024

Date Reported : Feb 19, 2024

Report Number: 2888821-1

Page 4 of 4

Sample Number	246678-4				
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)				
Measurement Date	Feb 15, 2024				
Measurement by	Amnat Wongsakhe				
Location	ปล่องกังหัน 1 ชั้นที่ (ใต้-บนอาคาร ปล่อยปล่องกังหัน : - บน : -)				
Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Gas Turbine	120	29.1	26.2	35.9	35.3
Average (WBGT)		29.1			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

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Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443992

Date Received : May 10, 2024

Date Reported : May 14, 2024

Report Number: 2969522-1

Page 1 of 4

Sample Number	2443992-1				
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)				
Measurement Date	May 08, 2024				
Measurement by	Nattakam Vonginyoo				
Location	ปฏิบัติงาน 1 ชั้นที่ (ค่า-ความกดอากาศปฏิบัติงาน : - แยก : -)				
Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณ Condenser Exhaust Unit	120	30.9	25.9	45.1	37.0
Average (WBGT)		30.9			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
- Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

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P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443992

Date Received : May 10, 2024

Date Reported : May 14, 2024

Report Number: 2969522-1

Page 2 of 4

Sample Number	2443992-2				
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)				
Measurement Date	May 08, 2024				
Measurement by	Nattakorn Vonginyoo				
Location	ปฏิบัติงาน : ชั้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แนนท : -)				
Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
บริเวณท่อฆ่าเชื้อโรงงาน	120	30.4	26.8	38.9	38.1
Average (WBGT)		30.4			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
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P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443992

Date Received : May 10, 2024

Date Reported : May 14, 2024

Report Number: 2969522-1

Page 3 of 4

Sample Number 2443992-3

Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)

Measurement Date May 08, 2024

Measurement by Nattakam Vonginyoo

Location ปลั๊กปั่นงาน 1 พื้นที่ (ข้อ-นามสกุล ผู้ปฏิบัติงาน : - นามสกุล : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
ปลั๊กปั่นงาน Generator	120	29.5	26.2	37.8	35.9
Average (WBGT)		29.5			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2551)
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Rayong Thailand 21140

P/O : 4210402620

Project Name : Monitoring EIA

Project Location : GTS3

Lot ID: 2443992

Date Received : May 10, 2024

Date Reported : May 14, 2024

Report Number: 2969522-1

Page 4 of 4

Sample Number 2443992-4

Parameter Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)

Measurement Date May 08, 2024

Measurement by Nattakam Vonginyoo

Location ปลั๊กปั่นงาน 1 พื้นที่ (ข้อ-นามสกุล ผู้ปฏิบัติงาน : - นามสกุล : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
ปลั๊กปั่นงาน Gas turbine	120	29.7	26.2	38.2	36.7
Average (WBGT)		29.7			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

- Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
- Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 246680 (1)
Date Received : Feb 16, 2024
Date Reported : Feb 25, 2024
Report Number: 246680 (1)-1

Page 1 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Administration Building : 1st Floor : เครื่องมือช่าง	246680 (1)-1	14-Feb-24	Day time	1	926	-	300-400	-	Pass
2	Spot : Administration Building : 1st Floor : โต๊ะ Admin. 1	246680 (1)-2	14-Feb-24	Day time	1	407	-	400-500	-	Pass
3	Spot : Administration Building : 1st Floor : โต๊ะ Admin. 2	246680 (1)-3	14-Feb-24	Day time	1	586	-	400-500	-	Pass
4	Spot : Administration Building : 1st Floor : โต๊ะ Operation Manager	246680 (1)-4	14-Feb-24	Day time	1	449	-	400-500	-	Pass
5	Spot : Administration Building : 1st Floor : โต๊ะ EHS	246680 (1)-5	14-Feb-24	Day time	1	793	-	400-500	-	Pass
6	Spot : Administration Building : 1st Floor : โต๊ะ EHS Manager	246680 (1)-6	14-Feb-24	Day time	1	882	-	400-500	-	Pass
7	Spot : Administration Building : 1st Floor : โต๊ะ Admin. Manager	246680 (1)-7	14-Feb-24	Day time	1	413	-	400-500	-	Pass
8	Spot : Administration Building : 1st Floor : โต๊ะ Plant Manager	246680 (1)-8	14-Feb-24	Day time	1	410	-	400-500	-	Pass
9	Spot : Administration Building : 1st Floor : โต๊ะ IT	246680 (1)-9	14-Feb-24	Day time	1	478	-	400-500	-	Pass
10	Spot : Administration Building : 1st Floor : โต๊ะเครื่อง 1	246680 (1)-10	14-Feb-24	Day time	1	485	-	400-500	-	Pass
11	Spot : Administration Building : 1st Floor : โต๊ะเครื่อง 2	246680 (1)-11	14-Feb-24	Day time	1	614	-	400-500	-	Pass
12	Area : Administration Building : 1st Floor : กระจก	246680 (1)-12	14-Feb-24	Day time	1	638	592	50	100	Pass
		246680 (1)-13	14-Feb-24	Day time	2	560				
		246680 (1)-14	14-Feb-24	Day time	3	417				
		246680 (1)-15	14-Feb-24	Day time	4	391				
		246680 (1)-16	14-Feb-24	Day time	5	564				
		246680 (1)-17	14-Feb-24	Day time	6	985				
13	Area : Administration Building : 1st Floor : ฝ้าเพดาน	246680 (1)-18	14-Feb-24	Day time	1	427	457	100	200	Pass
		246680 (1)-19	14-Feb-24	Day time	2	487				

Technical Management

Supot S
Supot Salamteh
Section Head

Approved by

Wichan Ch
Wichan Choonharat
Assistant Manager

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ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 246680 (1)
Date Received : Feb 16, 2024
Date Reported : Feb 25, 2024
Report Number: 246680 (1)-1

Page 2 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
15	Area : Administration Building : 1st Floor : ฝ้าเพดาน	246680 (1)-20	14-Feb-24	Day time	1	300	342	150	300	Pass
		246680 (1)-21	14-Feb-24	Day time	2	344				
		246680 (1)-22	14-Feb-24	Day time	3	386				
		246680 (1)-23	14-Feb-24	Day time	4	336				
		246680 (1)-24	14-Feb-24	Day time	5	310				
		246680 (1)-25	14-Feb-24	Day time	6	379				
		246680 (1)-26	14-Feb-24	Day time	7	319				
		246680 (1)-27	14-Feb-24	Day time	8	338				
		246680 (1)-28	14-Feb-24	Day time	9	349				
		246680 (1)-29	14-Feb-24	Day time	10	395				
		246680 (1)-30	14-Feb-24	Day time	11	310				
		246680 (1)-31	14-Feb-24	Day time	12	340				
16	Area : Administration Building : 1st Floor : ฝ้าเพดาน	246680 (1)-32	14-Feb-24	Day time	1	461	492	50	100	Pass
		246680 (1)-33	14-Feb-24	Day time	2	322				
		246680 (1)-34	14-Feb-24	Day time	3	635				
		246680 (1)-35	14-Feb-24	Day time	4	548				
17	Area : Administration Building : 1st Floor : ฝ้าเพดาน	246680 (1)-36	14-Feb-24	Day time	1	348	393	150	300	Pass
		246680 (1)-37	14-Feb-24	Day time	2	307				
		246680 (1)-38	14-Feb-24	Day time	3	585				
		246680 (1)-39	14-Feb-24	Day time	4	332				

Measurement by : Annat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supot S
Supot Salamteh
Section Head

Approved by

Wichan Ch
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GT53

Lot ID: 246680 (2)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (2)-1

Page 1 of 2

GT53												
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment		
						Spot	Average	Spot/Min	Average			
1	Area : CCR : Control Building : 1st Floor : Switchgear Room	246680 (2)-1	14-Feb-24	Day time	1	303	277	100	200	Pass		
		246680 (2)-2	14-Feb-24	Day time	2	301						
		246680 (2)-3	14-Feb-24	Day time	3	523						
		246680 (2)-4	14-Feb-24	Day time	4	301						
		246680 (2)-5	14-Feb-24	Day time	5	407						
		246680 (2)-6	14-Feb-24	Day time	6	219						
		246680 (2)-7	14-Feb-24	Day time	7	234						
		246680 (2)-8	14-Feb-24	Day time	8	246						
		246680 (2)-9	14-Feb-24	Day time	9	215						
		246680 (2)-10	14-Feb-24	Day time	10	209						
		246680 (2)-11	14-Feb-24	Day time	11	200						
		246680 (2)-12	14-Feb-24	Day time	12	232						
		246680 (2)-13	14-Feb-24	Day time	13	369						
		246680 (2)-14	14-Feb-24	Day time	14	236						
		246680 (2)-15	14-Feb-24	Day time	15	302						
		246680 (2)-16	14-Feb-24	Day time	16	291						
		246680 (2)-17	14-Feb-24	Day time	17	300						
		246680 (2)-18	14-Feb-24	Day time	18	245						
		246680 (2)-19	14-Feb-24	Night time	1	356	292	100	200			
		246680 (2)-20	14-Feb-24	Night time	2	290						
		246680 (2)-21	14-Feb-24	Night time	3	453						
		246680 (2)-22	14-Feb-24	Night time	4	285						
		246680 (2)-23	14-Feb-24	Night time	5	341						
		246680 (2)-24	14-Feb-24	Night time	6	240						
		246680 (2)-25	14-Feb-24	Night time	7	233						
		246680 (2)-26	14-Feb-24	Night time	8	261						
		246680 (2)-27	14-Feb-24	Night time	9	390						
		246680 (2)-28	14-Feb-24	Night time	10	286						
		246680 (2)-29	14-Feb-24	Night time	11	308						
		246680 (2)-30	14-Feb-24	Night time	12	201						
		246680 (2)-31	14-Feb-24	Night time	13	322						
		246680 (2)-32	14-Feb-24	Night time	14	238						
		246680 (2)-33	14-Feb-24	Night time	15	300						
		246680 (2)-34	14-Feb-24	Night time	16	300						
		246680 (2)-35	14-Feb-24	Night time	17	343						
		246680 (2)-36	14-Feb-24	Night time	18	248						

Technical Management

Supot S
Supot Salanteh
Section Head

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GT53

Lot ID: 246680 (2)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (2)-1

Page 2 of 2

GT53												
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment		
						Spot	Average	Spot/Min	Average			
2	Area : CCR : Control Building : 1st Floor : ทางเดินบันได	246680 (2)-37	14-Feb-24	Day time	1	205	180	50	100	Pass		
		246680 (2)-38	14-Feb-24	Day time	2	154						
		246680 (2)-39	14-Feb-24	Night time	1	501	411	50	100			
		246680 (2)-40	14-Feb-24	Night time	2	321						

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supot S
Supot Salanteh
Section Head

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 246680 (3)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (3)-1

Page 1 of 2

GTS3													
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment			
						Spot	Average	Spot/Min	Average				
1	Spot : CCR : Control Building : 3rd Floor : Control GTS3 No.1	246680 (3)-1	14-Feb-24	Day time	1	427	-	400-500	-	Pass			
		246680 (3)-2	14-Feb-24	Night time	1	408	-	400-500	-	Pass			
2	Spot : CCR : Control Building : 3rd Floor : Control GTS3 No.2	246680 (3)-3	14-Feb-24	Day time	1	400	-	400-500	-	Pass			
		246680 (3)-4	14-Feb-24	Night time	1	404	-	400-500	-	Pass			
3	Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.1	246680 (3)-5	14-Feb-24	Day time	1	432	-	400-500	-	Pass			
		246680 (3)-6	14-Feb-24	Night time	1	454	-	400-500	-	Pass			
4	Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.2	246680 (3)-7	14-Feb-24	Day time	1	441	-	400-500	-	Pass			
		246680 (3)-8	14-Feb-24	Night time	1	412	-	400-500	-	Pass			
5	Spot : CCR : Control Building : 3rd Floor : DCS	246680 (3)-9	14-Feb-24	Day time	1	502	-	400-500	-	Pass			
		246680 (3)-10	14-Feb-24	Night time	1	489	-	400-500	-	Pass			
6	Spot : CCR : Control Building : 3rd Floor : เครื่องสูบลมและสาร	246680 (3)-11	14-Feb-24	Day time	1	438	-	300-400	-	Pass			
		246680 (3)-12	14-Feb-24	Night time	1	421	-	300-400	-	Pass			
7	Spot : CCR : Control Building : 3rd Floor : เครื่องสูบลมและสารเครื่องสูบลมและสาร	246680 (3)-13	14-Feb-24	Day time	1	559	-	300-400	-	Pass			
		246680 (3)-14	14-Feb-24	Night time	1	548	-	300-400	-	Pass			
8	Spot : CCR : Control Building : 3rd Floor : 16: Daytime Operation	246680 (3)-15	14-Feb-24	Day time	1	714	-	400-500	-	Pass			
9	Spot : CCR : Control Building : 3rd Floor : 16: Operation Manager	246680 (3)-16	14-Feb-24	Day time	1	783	-	400-500	-	Pass			
10	Spot : CCR : Control Building : 3rd Floor : 16: Permit	246680 (3)-17	14-Feb-24	Day time	1	616	-	400-500	-	Pass			
		246680 (3)-18	14-Feb-24	Night time	1	545	-	400-500	-	Pass			
11	Spot : CCR : Control Building : 3rd Floor : 16: Shift Leader Daytime	246680 (3)-19	14-Feb-24	Day time	1	403	-	400-500	-	Pass			
		246680 (3)-20	14-Feb-24	Night time	1	412	-	400-500	-	Pass			
12	Spot : CCR : Control Building : 3rd Floor : 16: Shift Leader GTS3	246680 (3)-21	14-Feb-24	Day time	1	432	-	400-500	-	Pass			
		246680 (3)-22	14-Feb-24	Night time	1	430	-	400-500	-	Pass			
13	Spot : CCR : Control Building : 3rd Floor : 16: Shift Leader GTS4	246680 (3)-23	14-Feb-24	Day time	1	521	-	400-500	-	Pass			
		246680 (3)-24	14-Feb-24	Night time	1	542	-	400-500	-	Pass			

Technical Management

Supot S
Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 246680 (3)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (3)-1

Page 2 of 2

GTS3													
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment			
						Spot	Average	Spot/Min	Average				
14	Area : CCR : Control Building : 3rd Floor : ทางเดิน	246680 (3)-25	14-Feb-24	Day time	1	593	525	50	100	Pass			
		246680 (3)-26	14-Feb-24	Day time	2	568							
		246680 (3)-27	14-Feb-24	Day time	3	475							
		246680 (3)-28	14-Feb-24	Day time	4	299							
		246680 (3)-29	14-Feb-24	Day time	5	692							
		246680 (3)-30	14-Feb-24	Night time	1	822	637	50	100	Pass			
		246680 (3)-31	14-Feb-24	Night time	2	812							
		246680 (3)-32	14-Feb-24	Night time	3	492							
		246680 (3)-33	14-Feb-24	Night time	4	511							
		246680 (3)-34	14-Feb-24	Night time	5	549							
15	Area : CCR : Control Building : 3rd Floor : ทางเดินบันได	246680 (3)-35	14-Feb-24	Day time	1	543	972	50	100	Pass			
		246680 (3)-36	14-Feb-24	Day time	2	1,402							
		246680 (3)-37	14-Feb-24	Night time	1	195	267	50	100	Pass			
		246680 (3)-38	14-Feb-24	Night time	2	339							

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supot S
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Section Head

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Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 246680 (4)

Date Received : Feb 16, 2024
Date Reported : Feb 25, 2024
Report Number: 246680 (4)-1

Page 1 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average	Comment		
1	Area : Electrical Building : ชั้น 2 : Battery Room	246680 (4)-1	14-Feb-24	Day time	1	382	310	100	200	Pass
		246680 (4)-2	14-Feb-24	Day time	2	237				
		246680 (4)-3	14-Feb-24	Night time	1	546	474	100	200	Pass
		246680 (4)-4	14-Feb-24	Night time	2	402				
2	Area : Electrical Building : ชั้น 2 : Electrical Room	246680 (4)-5	14-Feb-24	Day time	1	1,170	873	100	200	Pass
		246680 (4)-6	14-Feb-24	Day time	2	987				
		246680 (4)-7	14-Feb-24	Day time	3	1,829				
		246680 (4)-8	14-Feb-24	Day time	4	1,835				
		246680 (4)-9	14-Feb-24	Day time	5	710				
		246680 (4)-10	14-Feb-24	Day time	6	247				
		246680 (4)-11	14-Feb-24	Day time	7	102				
		246680 (4)-12	14-Feb-24	Day time	8	310				
		246680 (4)-13	14-Feb-24	Day time	9	410				
		246680 (4)-14	14-Feb-24	Day time	10	257				
		246680 (4)-15	14-Feb-24	Day time	11	1,027				
		246680 (4)-16	14-Feb-24	Day time	12	1,015				
		246680 (4)-17	14-Feb-24	Day time	13	1,243				
		246680 (4)-18	14-Feb-24	Day time	14	1,765				
		246680 (4)-19	14-Feb-24	Day time	15	685				
		246680 (4)-20	14-Feb-24	Day time	16	751				
		246680 (4)-21	14-Feb-24	Day time	17	317				
		246680 (4)-22	14-Feb-24	Day time	18	357				
		246680 (4)-23	14-Feb-24	Night time	1	901	754	100	200	Pass
		246680 (4)-24	14-Feb-24	Night time	2	980				
		246680 (4)-25	14-Feb-24	Night time	3	1,721				
		246680 (4)-26	14-Feb-24	Night time	4	1,501				
		246680 (4)-27	14-Feb-24	Night time	5	691				
		246680 (4)-28	14-Feb-24	Night time	6	301				
		246680 (4)-29	14-Feb-24	Night time	7	250				
		246680 (4)-30	14-Feb-24	Night time	8	212				
		246680 (4)-31	14-Feb-24	Night time	9	472				
		246680 (4)-32	14-Feb-24	Night time	10	226				
		246680 (4)-33	14-Feb-24	Night time	11	811				
		246680 (4)-34	14-Feb-24	Night time	12	891				
		246680 (4)-35	14-Feb-24	Night time	13	1,098				
		246680 (4)-36	14-Feb-24	Night time	14	1,411				
		246680 (4)-37	14-Feb-24	Night time	15	511				
		246680 (4)-38	14-Feb-24	Night time	16	539				
		246680 (4)-39	14-Feb-24	Night time	17	413				

Technical Management

Supot S.
Supot Salarnteh
Section Head

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 246680 (4)

Date Received : Feb 16, 2024
Date Reported : Feb 25, 2024
Report Number: 246680 (4)-1

Page 2 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average	Comment		
2	Area : Electrical Building : ชั้น 2 : Electrical Room	246680 (4)-40	14-Feb-24	Night time	18	317				
3	Area : Electrical Building : ชั้น 1 : ครัว เสน่ห์น้อย	246680 (4)-41	14-Feb-24	Day time	1	15,670	35735	50	100	Pass
		246680 (4)-42	14-Feb-24	Day time	2	55,800				
		246680 (4)-43	14-Feb-24	Night time	1	201	206	50	100	Pass
4	Area : Electrical Building : ชั้น 2 : ครัว เสน่ห์น้อย	246680 (4)-44	14-Feb-24	Night time	2	210				
		246680 (4)-45	14-Feb-24	Day time	1	110	140	50	100	Pass
		246680 (4)-46	14-Feb-24	Day time	2	170				
		246680 (4)-47	14-Feb-24	Night time	1	235	247	50	100	Pass
		246680 (4)-48	14-Feb-24	Night time	2	259				

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supot S.
Supot Salarnteh
Section Head

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 246680 (5)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (5)-1

Page 1 of 1

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Electrical Building : ชั้น 3 : Switchgear	246680 (5)-1	14-Feb-24	Day time	1	518	-	300-400	-	Pass
		246680 (5)-2	14-Feb-24	Night time	1	468	-	300-400	-	Pass
2	Area : Electrical Building : ชั้น 3 : ทางเดินบันได	246680 (5)-3	14-Feb-24	Day time	1	218	231	50	100	Pass
		246680 (5)-4	14-Feb-24	Day time	2	244				
		246680 (5)-5	14-Feb-24	Night time	1	232				
		246680 (5)-6	14-Feb-24	Night time	2	241				

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 390 dated February 21 B.E.2561 (2018)



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 246680 (6)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (6)-1

Page 1 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Switchyard Control Building Plan : GTS3 : Battery Room	246680 (6)-1	14-Feb-24	Day time	1	204	220	100	200	Pass
		246680 (6)-2	14-Feb-24	Day time	2	235				
		246680 (6)-3	14-Feb-24	Night time	1	217	210	100	200	Pass
		246680 (6)-4	14-Feb-24	Night time	2	202				
2	Area : Switchyard Control Building Plan : GTS3 : Substation GTS3	246680 (6)-5	14-Feb-24	Day time	1	339	597	100	200	Pass
		246680 (6)-6	14-Feb-24	Day time	2	443				
		246680 (6)-7	14-Feb-24	Day time	3	610				
		246680 (6)-8	14-Feb-24	Day time	4	997				
		246680 (6)-9	14-Feb-24	Night time	1	495	442	100	200	Pass
		246680 (6)-10	14-Feb-24	Night time	2	426				
		246680 (6)-11	14-Feb-24	Night time	3	419				
		246680 (6)-12	14-Feb-24	Night time	4	429				
		246680 (6)-13	14-Feb-24	Day time	1	316	-	300-400	-	Pass
		246680 (6)-14	14-Feb-24	Night time	1	314	-	300-400	-	Pass
		246680 (6)-15	14-Feb-24	Day time	1	1,063	634	100	200	Pass
		246680 (6)-16	14-Feb-24	Day time	2	657				
4	Area : Switchyard Control Building Plan : GTS3 : Switchyard Control Room	246680 (6)-17	14-Feb-24	Day time	3	496				
		246680 (6)-18	14-Feb-24	Day time	4	321				
		246680 (6)-19	14-Feb-24	Night time	1	405	438	100	200	Pass
		246680 (6)-20	14-Feb-24	Night time	2	518				
		246680 (6)-21	14-Feb-24	Night time	3	429				
		246680 (6)-22	14-Feb-24	Night time	4	402				
		246680 (6)-23	14-Feb-24	Day time	1	308	315	100	200	Pass
		246680 (6)-24	14-Feb-24	Day time	2	322				
		246680 (6)-25	14-Feb-24	Night time	1	298	300	100	200	Pass
		246680 (6)-26	14-Feb-24	Night time	2	301				
6	Area : Switchyard Control Building Plan : GTS4 : Substation GTS4	246680 (6)-27	14-Feb-24	Day time	1	822	550	100	200	Pass
		246680 (6)-28	14-Feb-24	Day time	2	460				
		246680 (6)-29	14-Feb-24	Day time	3	407				
		246680 (6)-30	14-Feb-24	Day time	4	512				
		246680 (6)-31	14-Feb-24	Night time	1	443	420	100	200	Pass
		246680 (6)-32	14-Feb-24	Night time	2	333				
		246680 (6)-33	14-Feb-24	Night time	3	398				
		246680 (6)-34	14-Feb-24	Night time	4	505				

Technical Management

Supot S
Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 246680 (6)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (6)-1

Page 2 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
7	Spot : Switchyard Control Building Plan : GTS4 : Switchgear	246680 (6)-35	14-Feb-24	Day time	1	480	-	300-400	-	Pass
		246680 (6)-36	14-Feb-24	Night time	1	340	-	300-400	-	Pass
8	Area : Switchyard Control Building Plan : GTS4 : Switchyard Control Room	246680 (6)-37	14-Feb-24	Day time	1	1,332	606	100	200	Pass
		246680 (6)-38	14-Feb-24	Day time	2	250				
		246680 (6)-39	14-Feb-24	Day time	3	201				
		246680 (6)-40	14-Feb-24	Day time	4	641				
		246680 (6)-41	14-Feb-24	Night time	1	501	298	100	200	Pass
		246680 (6)-42	14-Feb-24	Night time	2	201				
		246680 (6)-43	14-Feb-24	Night time	3	191				
		246680 (6)-44	14-Feb-24	Night time	4	301				

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 246680 (7)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (7)-1

Page 1 of 1

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Water Treatment Control Building : Fire Pump	246680 (7)-1	14-Feb-24	Day time	1	5,940	-	300-400	-	Pass
		246680 (7)-2	14-Feb-24	Day time	2	2,130	-	1000	-	
		246680 (7)-3	14-Feb-24	Day time	3	1,000	-	400	-	
		246680 (7)-4	14-Feb-24	Night time	1	319	-	300-400	-	Pass
2	Spot : Water Treatment Control Building : Laboratory 1 (Fume Hood)	246680 (7)-5	14-Feb-24	Day time	1	563	-	400-500	-	Pass
		246680 (7)-6	14-Feb-24	Night time	1	553	-	400-500	-	Pass
3	Spot : Water Treatment Control Building : Laboratory 2 (Water Table)	246680 (7)-7	14-Feb-24	Day time	1	436	-	400-500	-	Pass
		246680 (7)-8	14-Feb-24	Night time	1	406	-	400-500	-	Pass
4	Spot : Water Treatment Control Building : Office Laboratory	246680 (7)-9	14-Feb-24	Day time	1	402	-	400-500	-	Pass
		246680 (7)-10	14-Feb-24	Night time	1	408	-	400-500	-	Pass
5	Spot : Water Treatment Control Building : Water Treatment	246680 (7)-11	14-Feb-24	Day time	1	432	-	300-400	-	Pass
		246680 (7)-12	14-Feb-24	Night time	1	414	-	300-400	-	Pass

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 246680 (8)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (8)-1

Page 1 of 3

GTS3												
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment		
						Spot	Average	Spot/Min	Average			
1	Spot : Workshop and Warehouse : 2nd Floor : ห้องช่างเทคนิค	246680 (8)-1	14-Feb-24	Day time	1	398	-	300-400	-	Pass		
4	Spot : Workshop and Warehouse : 2nd Floor : ห้อง ME 1	246680 (8)-2	14-Feb-24	Day time	1	403	-	400-500	-	Pass		
5	Spot : Workshop and Warehouse : 2nd Floor : ห้อง ME 2	246680 (8)-3	14-Feb-24	Day time	1	442	-	400-500	-	Pass		
6	Spot : Workshop and Warehouse : 2nd Floor : ห้อง ME 3	246680 (8)-4	14-Feb-24	Day time	1	421	-	400-500	-	Pass		
7	Spot : Workshop and Warehouse : 2nd Floor : ห้อง ME 4	246680 (8)-5	14-Feb-24	Day time	1	402	-	400-500	-	Pass		
8	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MI 1	246680 (8)-6	14-Feb-24	Day time	1	458	-	400-500	-	Pass		
9	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MI 2	246680 (8)-7	14-Feb-24	Day time	1	403	-	400-500	-	Pass		
10	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MI 3	246680 (8)-8	14-Feb-24	Day time	1	408	-	400-500	-	Pass		
11	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MI 4	246680 (8)-9	14-Feb-24	Day time	1	407	-	400-500	-	Pass		
12	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MM 1	246680 (8)-10	14-Feb-24	Day time	1	410	-	400-500	-	Pass		
13	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MM 2	246680 (8)-11	14-Feb-24	Day time	1	409	-	400-500	-	Pass		
14	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MM 3	246680 (8)-12	14-Feb-24	Day time	1	400	-	400-500	-	Pass		
15	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MM 4	246680 (8)-13	14-Feb-24	Day time	1	403	-	400-500	-	Pass		
16	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MM Manager	246680 (8)-14	14-Feb-24	Day time	1	897	-	400-500	-	Pass		
17	Area : Workshop and Warehouse : 2nd Floor : ทางเดิน ชั้น 2	246680 (8)-15	14-Feb-24	Day time	1	714	477	50	100	Pass		
		246680 (8)-16	14-Feb-24	Day time	2	258						
		246680 (8)-17	14-Feb-24	Day time	3	459						

Technical Management

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 246680 (8)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (8)-1

Page 2 of 3

GTS3												
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment		
						Spot	Average	Spot/Min	Average			
18	Area : Workshop and Warehouse : 2nd Floor : ทางเดิน ชั้น 2	246680 (8)-18	14-Feb-24	Day time	1	110	116	50	100	Pass		
		246680 (8)-19	14-Feb-24	Day time	2	121						
19	Area : Workshop and Warehouse : 2nd Floor : ชั้น 2	246680 (8)-20	14-Feb-24	Day time	1	111	116	50	100	Pass		
		246680 (8)-21	14-Feb-24	Day time	2	120						
20	Area : Workshop and Warehouse : 2nd Floor : ห้องเก็บเอกสาร	246680 (8)-22	14-Feb-24	Day time	1	210	206	100	200	Pass		
		246680 (8)-23	14-Feb-24	Day time	2	201						
21	Area : Workshop and Warehouse : 2nd Floor : ห้องประชุม	246680 (8)-24	14-Feb-24	Day time	1	388	413	50	100	Pass		
		246680 (8)-25	14-Feb-24	Day time	2	438						
22	Area : Workshop and Warehouse : 2nd Floor : ห้องประชุม	246680 (8)-26	14-Feb-24	Day time	1	378	917	150	300	Pass		
		246680 (8)-27	14-Feb-24	Day time	2	685						
		246680 (8)-28	14-Feb-24	Day time	3	616						
		246680 (8)-29	14-Feb-24	Day time	4	1,320						
		246680 (8)-30	14-Feb-24	Day time	5	1,358						
		246680 (8)-31	14-Feb-24	Day time	6	1,143						
23	Area : Workshop and Warehouse : 2nd Floor : ห้องพักรับ W/H	246680 (8)-32	14-Feb-24	Day time	1	444	336	25	50	Pass		
		246680 (8)-33	14-Feb-24	Day time	2	227						
24	Area : Workshop and Warehouse : 2nd Floor : Store	246680 (8)-34	14-Feb-24	Day time	1	858	666	100	200	Pass		
		246680 (8)-35	14-Feb-24	Day time	2	789						
		246680 (8)-36	14-Feb-24	Day time	3	667						
		246680 (8)-37	14-Feb-24	Day time	4	166						
		246680 (8)-38	14-Feb-24	Day time	5	208						
		246680 (8)-39	14-Feb-24	Day time	6	842						
		246680 (8)-40	14-Feb-24	Day time	7	711						
		246680 (8)-41	14-Feb-24	Day time	8	1,005						
		246680 (8)-42	14-Feb-24	Day time	9	1,025						
		246680 (8)-43	14-Feb-24	Day time	10	992						
		246680 (8)-44	14-Feb-24	Day time	11	812						
		246680 (8)-45	14-Feb-24	Day time	12	345						
		246680 (8)-46	14-Feb-24	Day time	13	256						
		246680 (8)-47	14-Feb-24	Day time	14	515						
		246680 (8)-48	14-Feb-24	Day time	15	686						
		246680 (8)-49	14-Feb-24	Day time	16	784						

Measurement by : Amnat Wongsakhen

Technical Management

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Wichan Choonharat
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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 246680 (8)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (8)-1

Page 3 of 3

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
Guideline :	Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)									



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 246680 (9)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (9)-1

Page 1 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot Average	Guideline Limit Spot/Min Average	Comment		
1	Area : Workshop and Warehouse : Ground Floor : Store ชั้น 1	246680 (9)-1	14-Feb-24	Day time	1	361	347	100	200	Pass
		246680 (9)-2	14-Feb-24	Day time	2	482				
		246680 (9)-3	14-Feb-24	Day time	3	463				
		246680 (9)-4	14-Feb-24	Day time	4	224				
		246680 (9)-5	14-Feb-24	Day time	5	394				
		246680 (9)-6	14-Feb-24	Day time	6	231				
		246680 (9)-7	14-Feb-24	Day time	7	545				
		246680 (9)-8	14-Feb-24	Day time	8	225				
		246680 (9)-9	14-Feb-24	Day time	9	403				
		246680 (9)-10	14-Feb-24	Day time	10	410				
		246680 (9)-11	14-Feb-24	Day time	11	336				
		246680 (9)-12	14-Feb-24	Day time	12	210				
		246680 (9)-13	14-Feb-24	Day time	13	205				
		246680 (9)-14	14-Feb-24	Day time	14	447				
		246680 (9)-15	14-Feb-24	Day time	15	395				
		246680 (9)-16	14-Feb-24	Day time	16	214				
2	Area : Workshop and Warehouse : Ground Floor : โรงงาน W/H	246680 (9)-17	14-Feb-24	Day time	1	1,425	1264	50	100	Pass
		246680 (9)-18	14-Feb-24	Day time	2	1,102				
3	Area : Workshop and Warehouse : Ground Floor : โรงงาน W/H ไทย	246680 (9)-19	14-Feb-24	Day time	1	670	618	50	100	Pass
		246680 (9)-20	14-Feb-24	Day time	2	565				
4	Area : Workshop and Warehouse : Ground Floor : โรงงาน ชั้น 1	246680 (9)-21	14-Feb-24	Day time	1	354	354	50	100	Pass
		246680 (9)-22	14-Feb-24	Day time	2	261				
		246680 (9)-23	14-Feb-24	Day time	3	403				
		246680 (9)-24	14-Feb-24	Day time	4	306				
		246680 (9)-25	14-Feb-24	Day time	5	449				
		246680 (9)-26	14-Feb-24	Day time	6	354				
5	Area : Workshop and Warehouse : Ground Floor : โรง Tool Room (AC 1-3)	246680 (9)-27	14-Feb-24	Day time	1	540	482	100	200	Pass
		246680 (9)-28	14-Feb-24	Day time	2	498				
		246680 (9)-29	14-Feb-24	Day time	3	409				
6	Spot : Workshop and Warehouse : Ground Floor : โรง W/H Office 1 TS3	246680 (9)-30	14-Feb-24	Day time	1	438	-	400-500	-	Pass
7	Spot : Workshop and Warehouse : Ground Floor : โรง W/H Office 2 TS4	246680 (9)-31	14-Feb-24	Day time	1	407	-	400-500	-	Pass

Technical Management

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Wichan Choonharat
Assistant Manager

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Supot Salamteh
Section Head

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 246680 (9)

Date Received : Feb 16, 2024

Date Reported : Feb 25, 2024

Report Number: 246680 (9)-1

Page 2 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
8	Spot : Workshop and Warehouse : Ground Floor : ใต้ Calibration ห้องปฏิบัติงานเครื่องวัด	246680 (9)-32	14-Feb-24	Day time	1	525	-	400-500	-	Pass
9	Area : Workshop and Warehouse : Ground Floor : ห้องปฏิบัติงานเครื่องวัดไฟฟ้า	246680 (9)-33	14-Feb-24	Day time	1	519	590	150	300	Pass
		246680 (9)-34	14-Feb-24	Day time	2	475				
		246680 (9)-35	14-Feb-24	Day time	3	468				
		246680 (9)-36	14-Feb-24	Day time	4	608				
		246680 (9)-37	14-Feb-24	Day time	5	687				
		246680 (9)-38	14-Feb-24	Day time	6	491				
		246680 (9)-39	14-Feb-24	Day time	7	603				
		246680 (9)-40	14-Feb-24	Day time	8	737				
		246680 (9)-41	14-Feb-24	Day time	9	725				

Measurement by : Amnat Wongsakhen

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 2443997 (1)

Date Received : May 10, 2024

Date Reported : May 15, 2024

Report Number: 2443997 (1)-1

Page 1 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Administration Building : 1st Floor : ใต้สำนักงานอาคาร	2443997 (1)-1	8-May-2024	Day time	1	837	-	300-400	-	Pass
2	Spot : Administration Building : 1st Floor : ใต้ Admin. 1	2443997 (1)-2	8-May-2024	Day time	1	502	-	400-500	-	Pass
3	Spot : Administration Building : 1st Floor : ใต้ Admin. 2	2443997 (1)-3	8-May-2024	Day time	1	609	-	400-500	-	Pass
4	Spot : Administration Building : 1st Floor : ใต้ Operation Manager	2443997 (1)-4	8-May-2024	Day time	1	557	-	400-500	-	Pass
5	Spot : Administration Building : 1st Floor : ใต้ EHS	2443997 (1)-5	8-May-2024	Day time	1	753	-	400-500	-	Pass
6	Spot : Administration Building : 1st Floor : ใต้ EHS Manager	2443997 (1)-6	8-May-2024	Day time	1	945	-	400-500	-	Pass
7	Spot : Administration Building : 1st Floor : ใต้ Admin. Manager	2443997 (1)-7	8-May-2024	Day time	1	514	-	400-500	-	Pass
8	Spot : Administration Building : 1st Floor : ใต้ Plant Manager	2443997 (1)-8	8-May-2024	Day time	1	505	-	400-500	-	Pass
9	Spot : Administration Building : 1st Floor : ใต้ IT	2443997 (1)-9	8-May-2024	Day time	1	422	-	400-500	-	Pass
10	Spot : Administration Building : 1st Floor : ใต้ห้อง 1	2443997 (1)-10	8-May-2024	Day time	1	411	-	400-500	-	Pass
11	Spot : Administration Building : 1st Floor : ใต้ห้อง 2	2443997 (1)-11	8-May-2024	Day time	1	702	-	400-500	-	Pass
12	Area : Administration Building : 1st Floor : ทางเดิน	2443997 (1)-12	8-May-2024	Day time	1	855	818	50	100	Pass
		2443997 (1)-13	8-May-2024	Day time	2	804				
		2443997 (1)-14	8-May-2024	Day time	3	802				
		2443997 (1)-15	8-May-2024	Day time	4	746				
		2443997 (1)-16	8-May-2024	Day time	5	925				
		2443997 (1)-17	8-May-2024	Day time	6	773				
13	Area : Administration Building : 1st Floor : ห้องเก็บเอกสาร	2443997 (1)-18	8-May-2024	Day time	1	659	816	100	200	Pass
		2443997 (1)-19	8-May-2024	Day time	2	972				

Technical Management

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Section Head

Approved by

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Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 2443997 (1)

Date Received : May 10, 2024
Date Reported : May 15, 2024
Report Number: 2443997 (1)-1

Page 2 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
15	Area : Administration Building : 1st Floor : ห้องประชุมใหญ่	2443997 (1)-20	9-May-2024	Day time	1	724	388	150	300	Pass
		2443997 (1)-21	9-May-2024	Day time	2	408				
		2443997 (1)-22	9-May-2024	Day time	3	305				
		2443997 (1)-23	9-May-2024	Day time	4	407				
		2443997 (1)-24	9-May-2024	Day time	5	311				
		2443997 (1)-25	9-May-2024	Day time	6	412				
		2443997 (1)-26	9-May-2024	Day time	7	338				
		2443997 (1)-27	9-May-2024	Day time	8	366				
		2443997 (1)-28	9-May-2024	Day time	9	422				
		2443997 (1)-29	9-May-2024	Day time	10	301				
		2443997 (1)-30	9-May-2024	Day time	11	315				
		2443997 (1)-31	9-May-2024	Day time	12	344				
16	Area : Administration Building : 1st Floor : ห้องประชุม	2443997 (1)-32	8-May-2024	Day time	1	768	612	50	100	Pass
		2443997 (1)-33	8-May-2024	Day time	2	532				
		2443997 (1)-34	8-May-2024	Day time	3	666				
		2443997 (1)-35	8-May-2024	Day time	4	480				
17	Area : Administration Building : 1st Floor : ห้องประชุมเล็ก	2443997 (1)-36	8-May-2024	Day time	1	507	423	150	300	Pass
		2443997 (1)-37	8-May-2024	Day time	2	401				
		2443997 (1)-38	8-May-2024	Day time	3	345				
		2443997 (1)-39	8-May-2024	Day time	4	438				

Measurement by : Nattakarn Vonginyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management


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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 2443997 (2)

Date Received : May 10, 2024
Date Reported : May 17, 2024
Report Number: 2443997 (2)-1

Page 1 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : CCR : Control Building : 1st Floor : Switchgear Room	2443997 (2)-1	8-May-2024	Day time	1	559	551	100	200	Pass
		2443997 (2)-2	8-May-2024	Day time	2	542				
		2443997 (2)-3	8-May-2024	Day time	3	545				
		2443997 (2)-4	8-May-2024	Day time	4	583				
		2443997 (2)-5	8-May-2024	Day time	5	592				
		2443997 (2)-6	8-May-2024	Day time	6	505				
		2443997 (2)-7	8-May-2024	Day time	7	660				
		2443997 (2)-8	8-May-2024	Day time	8	515				
		2443997 (2)-9	8-May-2024	Day time	9	543				
		2443997 (2)-10	8-May-2024	Day time	10	518				
		2443997 (2)-11	8-May-2024	Day time	11	485				
		2443997 (2)-12	8-May-2024	Day time	12	473				
		2443997 (2)-13	8-May-2024	Day time	13	461				
		2443997 (2)-14	8-May-2024	Day time	14	544				
		2443997 (2)-15	8-May-2024	Day time	15	665				
		2443997 (2)-16	8-May-2024	Day time	16	590				
		2443997 (2)-17	8-May-2024	Day time	17	623				
		2443997 (2)-18	8-May-2024	Day time	18	537				
		2443997 (2)-19	8-May-2024	Night time	1	578	475	100	200	Pass
		2443997 (2)-20	8-May-2024	Night time	2	444				
		2443997 (2)-21	8-May-2024	Night time	3	430				
		2443997 (2)-22	8-May-2024	Night time	4	562				
		2443997 (2)-23	8-May-2024	Night time	5	514				
		2443997 (2)-24	8-May-2024	Night time	6	491				
		2443997 (2)-25	8-May-2024	Night time	7	832				
		2443997 (2)-26	8-May-2024	Night time	8	735				
		2443997 (2)-27	8-May-2024	Night time	9	426				
		2443997 (2)-28	8-May-2024	Night time	10	501				
		2443997 (2)-29	8-May-2024	Night time	11	326				
		2443997 (2)-30	8-May-2024	Night time	12	446				
		2443997 (2)-31	8-May-2024	Night time	13	403				
		2443997 (2)-32	8-May-2024	Night time	14	406				
		2443997 (2)-33	8-May-2024	Night time	15	485				
		2443997 (2)-34	8-May-2024	Night time	16	323				
		2443997 (2)-35	8-May-2024	Night time	17	511				
		2443997 (2)-36	8-May-2024	Night time	18	552				

Technical Management


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Section Head

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 2443997 (2)

Date Received : May 10, 2024
Date Reported : May 17, 2024
Report Number: 2443997 (2)-1

Page 2 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
2	Area : CCR : Control Building : 1st Floor : ควบคุมอาคาร	2443997 (2)-37	8-May-2024	Day time	1	573	625	50	100	Pass
		2443997 (2)-38	8-May-2024	Day time	2	677				
		2443997 (2)-39	8-May-2024	Night time	1	179	191	50	100	Pass
		2443997 (2)-40	8-May-2024	Night time	2	203				

Measurement by : Nattakarn Vonginyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)



Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 2443997 (3)

Date Received : May 10, 2024
Date Reported : May 15, 2024
Report Number: 2443997 (3)-1

Page 1 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : CCR : Control Building : 3rd Floor : Control GTS3 No.1	2443997 (3)-1	8-May-2024	Day time	1	474	-	400-500	-	Pass
		2443997 (3)-2	8-May-2024	Night time	1	454	-	400-500	-	Pass
2	Spot : CCR : Control Building : 3rd Floor : Control GTS3 No.2	2443997 (3)-3	8-May-2024	Day time	1	415	-	400-500	-	Pass
		2443997 (3)-4	8-May-2024	Night time	1	523	-	400-500	-	Pass
3	Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.1	2443997 (3)-5	8-May-2024	Day time	1	625	-	400-500	-	Pass
		2443997 (3)-6	8-May-2024	Night time	1	522	-	400-500	-	Pass
4	Spot : CCR : Control Building : 3rd Floor : Control GTS4 No.2	2443997 (3)-7	8-May-2024	Day time	1	525	-	400-500	-	Pass
		2443997 (3)-8	8-May-2024	Night time	1	562	-	400-500	-	Pass
5	Spot : CCR : Control Building : 3rd Floor : DCS	2443997 (3)-9	8-May-2024	Day time	1	527	-	400-500	-	Pass
		2443997 (3)-10	8-May-2024	Night time	1	435	-	400-500	-	Pass
6	Spot : CCR : Control Building : 3rd Floor : เครื่องกำเนิดความร้อน	2443997 (3)-11	8-May-2024	Day time	1	455	-	300-400	-	Pass
		2443997 (3)-12	8-May-2024	Night time	1	432	-	300-400	-	Pass
7	Spot : CCR : Control Building : 3rd Floor : เครื่องกำเนิดความร้อนเครื่องปั่นเกลียว	2443997 (3)-13	8-May-2024	Day time	1	690	-	300-400	-	Pass
		2443997 (3)-14	8-May-2024	Night time	1	594	-	300-400	-	Pass
8	Spot : CCR : Control Building : 3rd Floor : ทั่ว Daytime Operation	2443997 (3)-15	8-May-2024	Day time	1	762	-	400-500	-	Pass
9	Spot : CCR : Control Building : 3rd Floor : ทั่ว Operation Manager	2443997 (3)-16	8-May-2024	Day time	1	787	-	400-500	-	Pass
10	Spot : CCR : Control Building : 3rd Floor : ทั่ว Permit	2443997 (3)-17	8-May-2024	Day time	1	692	-	400-500	-	Pass
		2443997 (3)-18	8-May-2024	Night time	1	674	-	400-500	-	Pass
11	Spot : CCR : Control Building : 3rd Floor : ทั่ว Shift Leader Daytime	2443997 (3)-19	8-May-2024	Day time	1	576	-	400-500	-	Pass
		2443997 (3)-20	8-May-2024	Night time	1	556	-	400-500	-	Pass
12	Spot : CCR : Control Building : 3rd Floor : ทั่ว Shift Leader GTS3	2443997 (3)-21	8-May-2024	Day time	1	485	-	400-500	-	Pass
		2443997 (3)-22	8-May-2024	Night time	1	465	-	400-500	-	Pass
13	Spot : CCR : Control Building : 3rd Floor : ทั่ว Shift Leader GTS4	2443997 (3)-23	8-May-2024	Day time	1	632	-	400-500	-	Pass
		2443997 (3)-24	8-May-2024	Night time	1	578	-	400-500	-	Pass

Technical Management

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 2443997 (3)

Date Received : May 10, 2024
Date Reported : May 15, 2024
Report Number: 2443997 (3)-1

Page 2 of 2

GTS3

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
14	Area : CCR : Control Building : 3rd Floor : 3rd Floor	2443997 (3)-25	8-May-2024	Day time	1	807	927	50	100	Pass
		2443997 (3)-26	8-May-2024	Day time	2	925				
		2443997 (3)-27	8-May-2024	Day time	3	979				
		2443997 (3)-28	8-May-2024	Day time	4	972				
		2443997 (3)-29	8-May-2024	Day time	5	953				
		2443997 (3)-30	8-May-2024	Night time	1	795	917	50	100	Pass
		2443997 (3)-31	8-May-2024	Night time	2	903				
		2443997 (3)-32	8-May-2024	Night time	3	939				
		2443997 (3)-33	8-May-2024	Night time	4	1,035				
		2443997 (3)-34	8-May-2024	Night time	5	912				
15	Area : CCR : Control Building : 3rd Floor : 3rd Floor	2443997 (3)-35	8-May-2024	Day time	1	511	470	50	100	Pass
		2443997 (3)-36	8-May-2024	Day time	2	428				
		2443997 (3)-37	8-May-2024	Night time	1	404	302	50	100	Pass
		2443997 (3)-38	8-May-2024	Night time	2	201				

Measurement by : Nattakarn Vonginyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 2443997 (4)

Date Received : May 10, 2024
Date Reported : May 15, 2024
Report Number: 2443997 (4)-1

Page 1 of 2

GTS3

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Electrical Building : 3rd Floor : Battery Room	2443997 (4)-1	8-May-2024	Day time	1	775	828	100	200	Pass
		2443997 (4)-2	8-May-2024	Day time	2	881				
		2443997 (4)-3	8-May-2024	Night time	1	447	448	100	200	Pass
		2443997 (4)-4	8-May-2024	Night time	2	450				
2	Area : Electrical Building : 3rd Floor : Electrical Room	2443997 (4)-5	8-May-2024	Day time	1	2,710	2001	100	200	Pass
		2443997 (4)-6	8-May-2024	Day time	2	527				
		2443997 (4)-7	8-May-2024	Day time	3	2,370				
		2443997 (4)-8	8-May-2024	Day time	4	2,460				
		2443997 (4)-9	8-May-2024	Day time	5	1,830				
		2443997 (4)-10	8-May-2024	Day time	6	1,840				
		2443997 (4)-11	8-May-2024	Day time	7	2,250				
		2443997 (4)-12	8-May-2024	Day time	8	1,763				
		2443997 (4)-13	8-May-2024	Day time	9	543				
		2443997 (4)-14	8-May-2024	Day time	10	522				
		2443997 (4)-15	8-May-2024	Day time	11	2,150				
		2443997 (4)-16	8-May-2024	Day time	12	1,635				
		2443997 (4)-17	8-May-2024	Day time	13	3,270				
		2443997 (4)-18	8-May-2024	Day time	14	2,420				
		2443997 (4)-19	8-May-2024	Day time	15	2,110				
		2443997 (4)-20	8-May-2024	Day time	16	1,730				
		2443997 (4)-21	8-May-2024	Day time	17	1,911				
		2443997 (4)-22	8-May-2024	Day time	18	1,635				
		2443997 (4)-23	8-May-2024	Night time	1	444	451	100	200	Pass
		2443997 (4)-24	8-May-2024	Night time	2	585				
		2443997 (4)-25	8-May-2024	Night time	3	541				
		2443997 (4)-26	8-May-2024	Night time	4	538				
		2443997 (4)-27	8-May-2024	Night time	5	302				
		2443997 (4)-28	8-May-2024	Night time	6	403				
		2443997 (4)-29	8-May-2024	Night time	7	406				
		2443997 (4)-30	8-May-2024	Night time	8	502				
		2443997 (4)-31	8-May-2024	Night time	9	446				
		2443997 (4)-32	8-May-2024	Night time	10	414				
		2443997 (4)-33	8-May-2024	Night time	11	476				
		2443997 (4)-34	8-May-2024	Night time	12	423				
		2443997 (4)-35	8-May-2024	Night time	13	429				
		2443997 (4)-36	8-May-2024	Night time	14	418				
		2443997 (4)-37	8-May-2024	Night time	15	455				
		2443997 (4)-38	8-May-2024	Night time	16	426				
		2443997 (4)-39	8-May-2024	Night time	17	549				

Technical Management

Supot S
Supot Salanteh
Section Head

Approved by

Wichan Choonharat
Wichan Choonharat
Assistant Manager

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Life Sciences

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 2443997 (4)

Date Received : May 10, 2024

Date Reported : May 15, 2024

Report Number: 2443997 (4)-1

Page 2 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
2	Area : Electrical Building : ชั้น 2 : Electrical Room	2443997 (4)-40	8-May-2024	Night time	18	428				
3	Area : Electrical Building : ชั้น 1 : ทางเดินบันได	2443997 (4)-41	8-May-2024	Day time	1	5,123	7382	50	100	Pass
		2443997 (4)-42	8-May-2024	Day time	2	9,640				
		2443997 (4)-43	8-May-2024	Night time	1	265	292	50	100	Pass
		2443997 (4)-44	8-May-2024	Night time	2	319				
4	Area : Electrical Building : ชั้น 2 : ทางเดินบันได	2443997 (4)-45	8-May-2024	Day time	1	249	247	50	100	Pass
		2443997 (4)-46	8-May-2024	Day time	2	245				
		2443997 (4)-47	8-May-2024	Night time	1	201	208	50	100	Pass
		2443997 (4)-48	8-May-2024	Night time	2	216				

Measurement by : Nattakarn Vonginyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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Supot Salamteh
Section Head

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Wichan Choonharat
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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 2443997 (5)

Date Received : May 10, 2024

Date Reported : May 15, 2024

Report Number: 2443997 (5)-1

Page 1 of 1

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Electrical Building : ชั้น 3 : Switchgear	2443997 (5)-1	8-May-2024	Day time	1	514	-	300-400	-	Pass
		2443997 (5)-2	8-May-2024	Night time	1	505	-	300-400	-	Pass
2	Area : Electrical Building : ชั้น 3 : ทางเดินบันได	2443997 (5)-3	8-May-2024	Day time	1	255	280	50	100	Pass
		2443997 (5)-4	8-May-2024	Day time	2	304				
		2443997 (5)-5	8-May-2024	Night time	1	202	210	50	100	Pass
		2443997 (5)-6	8-May-2024	Night time	2	219				

Measurement by : Nattakarn Vonginyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 2443997 (6)

Date Received : May 10, 2024
Date Reported : May 15, 2024
Report Number: 2443997 (6)-1

Page 1 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot	Average	Guideline Limit Spot/Min	Average	Comment
1	Area : Switchyard Control Building Plan : GTS3 : Battery Room	2443997 (6)-1	8-May-2024	Day time	1	309	332	100	200	Pass
		2443997 (6)-2	8-May-2024	Day time	2	356				
		2443997 (6)-3	8-May-2024	Night time	1	496	484	100	200	Pass
		2443997 (6)-4	8-May-2024	Night time	2	472				
2	Area : Switchyard Control Building Plan : GTS3 : Substation GTS3	2443997 (6)-5	8-May-2024	Day time	1	508	536	100	200	Pass
		2443997 (6)-6	8-May-2024	Day time	2	441				
		2443997 (6)-7	8-May-2024	Day time	3	624				
		2443997 (6)-8	8-May-2024	Day time	4	572				
		2443997 (6)-9	8-May-2024	Night time	1	555	502	100	200	Pass
		2443997 (6)-10	8-May-2024	Night time	2	412				
		2443997 (6)-11	8-May-2024	Night time	3	591				
		2443997 (6)-12	8-May-2024	Night time	4	452				
3	Spot : Switchyard Control Building Plan : GTS3 : Switchgear	2443997 (6)-13	8-May-2024	Day time	1	424	-	300-400	-	Pass
		2443997 (6)-14	8-May-2024	Night time	1	416	-	300-400	-	Pass
4	Area : Switchyard Control Building Plan : GTS3 : Switchyard Control Room	2443997 (6)-15	8-May-2024	Day time	1	418	589	100	200	Pass
		2443997 (6)-16	8-May-2024	Day time	2	546				
		2443997 (6)-17	8-May-2024	Day time	3	711				
		2443997 (6)-18	8-May-2024	Day time	4	682				
		2443997 (6)-19	8-May-2024	Night time	1	511	509	100	200	Pass
		2443997 (6)-20	8-May-2024	Night time	2	496				
		2443997 (6)-21	8-May-2024	Night time	3	531				
		2443997 (6)-22	8-May-2024	Night time	4	497				
5	Area : Switchyard Control Building Plan : GTS4 : Battery Room	2443997 (6)-23	8-May-2024	Day time	1	670	596	100	200	Pass
		2443997 (6)-24	8-May-2024	Day time	2	523				
		2443997 (6)-25	8-May-2024	Night time	1	402	400	100	200	Pass
		2443997 (6)-26	8-May-2024	Night time	2	399				
6	Area : Switchyard Control Building Plan : GTS4 : Substation GTS4	2443997 (6)-27	8-May-2024	Day time	1	966	830	100	200	Pass
		2443997 (6)-28	8-May-2024	Day time	2	923				
		2443997 (6)-29	8-May-2024	Day time	3	785				
		2443997 (6)-30	8-May-2024	Day time	4	647				
		2443997 (6)-31	8-May-2024	Night time	1	592	614	100	200	Pass
		2443997 (6)-32	8-May-2024	Night time	2	613				
		2443997 (6)-33	8-May-2024	Night time	3	646				
		2443997 (6)-34	8-May-2024	Night time	4	605				

Technical Management

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Section Head

Approved by

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 2443997 (6)

Date Received : May 10, 2024
Date Reported : May 15, 2024
Report Number: 2443997 (6)-1

Page 2 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux) Spot	Average	Guideline Limit Spot/Min	Average	Comment
7	Spot : Switchyard Control Building Plan : GTS4 : Switchgear	2443997 (6)-35	8-May-2024	Day time	1	519	-	300-400	-	Pass
		2443997 (6)-36	8-May-2024	Night time	1	474	-	300-400	-	Pass
8	Area : Switchyard Control Building Plan : GTS4 : Switchyard Control Room	2443997 (6)-37	8-May-2024	Day time	1	996	756	100	200	Pass
		2443997 (6)-38	8-May-2024	Day time	2	805				
		2443997 (6)-39	8-May-2024	Day time	3	678				
		2443997 (6)-40	8-May-2024	Day time	4	544				
		2443997 (6)-41	8-May-2024	Night time	1	551	655	100	200	Pass
		2443997 (6)-42	8-May-2024	Night time	2	749				
		2443997 (6)-43	8-May-2024	Night time	3	625				
		2443997 (6)-44	8-May-2024	Night time	4	694				

Measurement by : Nattakarn Vonginyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 2443997 (7)

Date Received : May 10, 2024

Date Reported : May 15, 2024

Report Number: 2443997 (7)-1

Page 1 of 1

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Water Treatment Control Building : Fire Pump	2443997 (7)-1	8-May-2024	Day time	1	1,824	-	300-400	-	Pass
		2443997 (7)-2	8-May-2024	Day time	2	1,665	-	300	-	
		2443997 (7)-3	8-May-2024	Day time	3	1,532	-	200	-	
		2443997 (7)-4	8-May-2024	Night time	1	457	-	300-400	-	Pass
2	Spot : Water Treatment Control Building : Laboratory 1 (Fume Hood)	2443997 (7)-5	8-May-2024	Day time	1	878	-	400-500	-	Pass
		2443997 (7)-6	8-May-2024	Night time	1	674	-	400-500	-	Pass
3	Spot : Water Treatment Control Building : Laboratory 2 (Water Table)	2443997 (7)-7	8-May-2024	Day time	1	533	-	400-500	-	Pass
		2443997 (7)-8	8-May-2024	Night time	1	419	-	400-500	-	Pass
4	Spot : Water Treatment Control Building : Office Laboratory	2443997 (7)-9	8-May-2024	Day time	1	489	-	400-500	-	Pass
		2443997 (7)-10	8-May-2024	Night time	1	430	-	400-500	-	Pass
5	Spot : Water Treatment Control Building : Water Treatment	2443997 (7)-11	8-May-2024	Day time	1	483	-	300-400	-	Pass
		2443997 (7)-12	8-May-2024	Night time	1	472	-	300-400	-	Pass

Measurement by : Nattakarn Vonginyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supot S
Supot Salamteh
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Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.

224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 2443997 (8)

Date Received : May 10, 2024

Date Reported : May 15, 2024

Report Number: 2443997 (8)-1

Page 1 of 2

GTS3										
Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Spot : Workshop and Warehouse : 2nd Floor : ห้องผลิตพลาสติก	2443997 (8)-1	8-May-2024	Day time	1	419	-	300-400	-	Pass
4	Spot : Workshop and Warehouse : 2nd Floor : ห้อง ME 1	2443997 (8)-2	8-May-2024	Day time	1	530	-	400-500	-	Pass
5	Spot : Workshop and Warehouse : 2nd Floor : ห้อง ME 2	2443997 (8)-3	8-May-2024	Day time	1	522	-	400-500	-	Pass
6	Spot : Workshop and Warehouse : 2nd Floor : ห้อง ME 3	2443997 (8)-4	8-May-2024	Day time	1	519	-	400-500	-	Pass
7	Spot : Workshop and Warehouse : 2nd Floor : ห้อง ME 4	2443997 (8)-5	8-May-2024	Day time	1	486	-	400-500	-	Pass
8	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MI 1	2443997 (8)-6	8-May-2024	Day time	1	513	-	400-500	-	Pass
9	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MI 2	2443997 (8)-7	8-May-2024	Day time	1	524	-	400-500	-	Pass
10	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MI 3	2443997 (8)-8	8-May-2024	Day time	1	505	-	400-500	-	Pass
11	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MI 4	2443997 (8)-9	8-May-2024	Day time	1	477	-	400-500	-	Pass
12	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MM 1	2443997 (8)-10	8-May-2024	Day time	1	415	-	400-500	-	Pass
13	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MM 2	2443997 (8)-11	8-May-2024	Day time	1	430	-	400-500	-	Pass
14	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MM 3	2443997 (8)-12	8-May-2024	Day time	1	429	-	400-500	-	Pass
15	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MM 4	2443997 (8)-13	8-May-2024	Day time	1	484	-	400-500	-	Pass
16	Spot : Workshop and Warehouse : 2nd Floor : ห้อง MM Manager	2443997 (8)-14	8-May-2024	Day time	1	409	-	400-500	-	Pass
17	Area : Workshop and Warehouse : 2nd Floor : ทางเดิน ชั้น 2	2443997 (8)-15	8-May-2024	Day time	1	754	595	50	100	Pass
		2443997 (8)-16	8-May-2024	Day time	2	378				
		2443997 (8)-17	8-May-2024	Day time	3	653				
18	Area : Workshop and Warehouse : 2nd Floor : ทางลงบันได ชั้น 2	2443997 (8)-18	8-May-2024	Day time	1	204	208	50	100	Pass
		2443997 (8)-19	8-May-2024	Day time	2	212				

Technical Management

Supot S
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Section Head

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Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 2443997 (8)

Date Received : May 10, 2024
Date Reported : May 15, 2024
Report Number: 2443997 (8)-1

Page 2 of 2

GTS3

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
19	Area : Workshop and Warehouse : 2nd Floor : ชั้น 2	2443997 (8)-20	8-May-2024	Day time	1	208	204	50	100	Pass
		2443997 (8)-21	8-May-2024	Day time	2	201				
20	Area : Workshop and Warehouse : 2nd Floor : โรงงานอาคาร	2443997 (8)-22	8-May-2024	Day time	1	345	342	100	200	Pass
		2443997 (8)-23	8-May-2024	Day time	2	339				
21	Area : Workshop and Warehouse : 2nd Floor : โรงงานอาคาร	2443997 (8)-24	8-May-2024	Day time	1	420	438	50	100	Pass
		2443997 (8)-25	8-May-2024	Day time	2	456				
22	Area : Workshop and Warehouse : 2nd Floor : โรงงานอาคาร	2443997 (8)-26	8-May-2024	Day time	1	633	1076	150	300	Pass
		2443997 (8)-27	8-May-2024	Day time	2	941				
		2443997 (8)-28	8-May-2024	Day time	3	763				
		2443997 (8)-29	8-May-2024	Day time	4	1,285				
		2443997 (8)-30	8-May-2024	Day time	5	1,385				
		2443997 (8)-31	8-May-2024	Day time	6	1,450				
23	Area : Workshop and Warehouse : 2nd Floor : โรงงานชั้น W/H	2443997 (8)-32	8-May-2024	Day time	1	627	571	25	50	Pass
		2443997 (8)-33	8-May-2024	Day time	2	515				
24	Area : Workshop and Warehouse : 2nd Floor : Store	2443997 (8)-34	8-May-2024	Day time	1	395	913	100	200	Pass
		2443997 (8)-35	8-May-2024	Day time	2	410				
		2443997 (8)-36	8-May-2024	Day time	3	290				
		2443997 (8)-37	8-May-2024	Day time	4	368				
		2443997 (8)-38	8-May-2024	Day time	5	951				
		2443997 (8)-39	8-May-2024	Day time	6	1,123				
		2443997 (8)-40	8-May-2024	Day time	7	1,186				
		2443997 (8)-41	8-May-2024	Day time	8	1,329				
		2443997 (8)-42	8-May-2024	Day time	9	1,467				
		2443997 (8)-43	8-May-2024	Day time	10	1,407				
		2443997 (8)-44	8-May-2024	Day time	11	1,387				
		2443997 (8)-45	8-May-2024	Day time	12	1,209				
		2443997 (8)-46	8-May-2024	Day time	13	654				
		2443997 (8)-47	8-May-2024	Day time	14	766				
		2443997 (8)-48	8-May-2024	Day time	15	808				
		2443997 (8)-49	8-May-2024	Day time	16	852				

Measurement by : Nattakarn Vonginyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supot S
Supot Salanteh
Section Head

Approved by

Nichan Chuan
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Pluak Daeng, Rayong Thailand 21140
P/O :
Project Name : Monitoring EIA
Project Location: GTS3

Lot ID: 2443997 (9)

Date Received : May 10, 2024
Date Reported : May 15, 2024
Report Number: 2443997 (9)-1

Page 1 of 2

GTS3

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
1	Area : Workshop and Warehouse : Ground Floor : Store ชั้น 1	2443997 (9)-1	8-May-2024	Day time	1	533	464	100	200	Pass
		2443997 (9)-2	8-May-2024	Day time	2	493				
		2443997 (9)-3	8-May-2024	Day time	3	570				
		2443997 (9)-4	8-May-2024	Day time	4	536				
		2443997 (9)-5	8-May-2024	Day time	5	209				
		2443997 (9)-6	8-May-2024	Day time	6	212				
		2443997 (9)-7	8-May-2024	Day time	7	613				
		2443997 (9)-8	8-May-2024	Day time	8	596				
		2443997 (9)-9	8-May-2024	Day time	9	474				
		2443997 (9)-10	8-May-2024	Day time	10	472				
		2443997 (9)-11	8-May-2024	Day time	11	395				
		2443997 (9)-12	8-May-2024	Day time	12	339				
		2443997 (9)-13	8-May-2024	Day time	13	532				
		2443997 (9)-14	8-May-2024	Day time	14	458				
		2443997 (9)-15	8-May-2024	Day time	15	511				
		2443997 (9)-16	8-May-2024	Day time	16	473				
2	Area : Workshop and Warehouse : Ground Floor : โรงงาน W/H	2443997 (9)-17	8-May-2024	Day time	1	614	648	50	100	Pass
		2443997 (9)-18	8-May-2024	Day time	2	683				
3	Area : Workshop and Warehouse : Ground Floor : โรงงาน W/H โรง	2443997 (9)-19	8-May-2024	Day time	1	770	695	50	100	Pass
		2443997 (9)-20	8-May-2024	Day time	2	620				
4	Area : Workshop and Warehouse : Ground Floor : โรงงาน ชั้น 1	2443997 (9)-21	8-May-2024	Day time	1	623	543	50	100	Pass
		2443997 (9)-22	8-May-2024	Day time	2	633				
		2443997 (9)-23	8-May-2024	Day time	3	531				
		2443997 (9)-24	8-May-2024	Day time	4	457				
		2443997 (9)-25	8-May-2024	Day time	5	609				
		2443997 (9)-26	8-May-2024	Day time	6	405				
5	Area : Workshop and Warehouse : Ground Floor : โรงงาน Tool Room (AC 1-3)	2443997 (9)-27	8-May-2024	Day time	1	944	884	100	200	Pass
		2443997 (9)-28	8-May-2024	Day time	2	905				
		2443997 (9)-29	8-May-2024	Day time	3	803				
6	Spot : Workshop and Warehouse : Ground Floor : โรงงาน W/H Office 1 TS4	2443997 (9)-30	8-May-2024	Day time	1	475	-	400-500	-	Pass
7	Spot : Workshop and Warehouse : Ground Floor : โรงงาน W/H Office 2 TS3	2443997 (9)-31	8-May-2024	Day time	1	470	-	400-500	-	Pass
8	Spot : Workshop and Warehouse : Ground Floor : โรงงาน Calibration โรงงาน Calibration โรงงาน	2443997 (9)-32	8-May-2024	Day time	1	677	-	400-500	-	Pass

Technical Management

Supot S
Supot Salanteh
Section Head

Approved by

Nichan Chuan
Wichan Choonharat
Assistant Manager

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Analysis / Test Report

Client : Gulf TS3 Co., Ltd.
224 Moo 3, WHA Eastern Seaboard Industrial Estate 1, Tasit, Phrak Daeng, Rayong Thailand 21140

P/O :

Project Name : Monitoring EIA

Project Location: GTS3

Lot ID: 2443997 (9)

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Page 2 of 2

Lay out No.	Location	Reference Number	Date	Time	No.	Illuminance (Lux)		Guideline Limit		Comment
						Spot	Average	Spot/Min	Average	
9	Area : Workshop and Warehouse : Ground Floor : โรงงานผลิตเครื่องกลไฟฟ้า	2443997 (9)-33	8-May-2024	Day time	1	685	812	150	300	Pass
		2443997 (9)-34	8-May-2024	Day time	2	929				
		2443997 (9)-35	8-May-2024	Day time	3	883				
		2443997 (9)-36	8-May-2024	Day time	4	797				
		2443997 (9)-37	8-May-2024	Day time	5	865				
		2443997 (9)-38	8-May-2024	Day time	6	847				
		2443997 (9)-39	8-May-2024	Day time	7	901				
		2443997 (9)-40	8-May-2024	Day time	8	547				
		2443997 (9)-41	8-May-2024	Day time	9	853				

Measurement by : Nattakorn Vonginyoo

Guideline : Notification of Department of Labour Protection and Welfare, B.E.2560 (2017) dated November 27, B.E.2560 (2017), and published in the Royal Government Gazette, Vol.135, Part 39D dated February 21 B.E.2561 (2018)

Technical Management

Supot S

Supot Salanteh
Section Head

Approved by

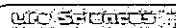
Wichan Choonharat

Wichan Choonharat
Assistant Manager

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ภาคผนวก ค-10

แผนผังแสดงเส้นระดับเสียง (Noise Contour Map)



Noise Contour Map

Name Project : Gulf TS3 Co., Ltd.

บริเวณพื้นที่โรงไฟฟ้าตาสีห์ 3

Reference Number : Lot 20133809-1

Measurement Date : Aug 25, 2021

