

# ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์

# ภาคผนวก ค-1

---

คุณภาพอากาศในบรรยากาศ



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224220**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2240615-1

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	วัดอ่างศิลา (GPS 47P 0792399, 1554146)
<b>Date Analysis Commenced</b>	Jun 01, 2022
<b>Condition of Sample</b>	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass 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)
2224220-1	May 23 - May 24, 2022	0.031	0.023	756	30
2224220-2	May 24 - May 25, 2022	0.037	0.026	756	31
2224220-3	May 25 - May 26, 2022	0.039	0.027	756	31
2224220-4	May 26 - May 27, 2022	0.025	0.023	756	30
2224220-5	May 27 - May 28, 2022	0.028	0.026	756	31
2224220-6	May 28 - May 29, 2022	0.046	0.042	756	30
2224220-7	May 29 - May 30, 2022	0.059	0.039	756	31
<b>Guideline</b>		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 :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224220**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2240615-2

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	วัดสระตูละครท่า (GPS 47P 0792636, 1550251)
<b>Date Analysis Commenced</b>	Jun 01, 2022
<b>Condition of Sample</b>	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass 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)
2224220-8	May 23 - May 24, 2022	0.043	0.026	756	30
2224220-9	May 24 - May 25, 2022	0.046	0.025	756	31
2224220-10	May 25 - May 26, 2022	0.051	0.024	756	31
2224220-11	May 26 - May 27, 2022	0.053	0.025	756	30
2224220-12	May 27 - May 28, 2022	0.048	0.025	756	31
2224220-13	May 28 - May 29, 2022	0.058	0.033	756	30
2224220-14	May 29 - May 30, 2022	0.070	0.042	756	31
<b>Guideline</b>		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 :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224220**

Date Received : May 31, 2022  
Date Reported : Jun 07, 2022  
Report Number: 2240615-3

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	ชุมชนบ้านนาแวม (GPS 47P 0793851, 1554220)
<b>Date Analysis Commenced</b>	Jun 01, 2022
<b>Condition of Sample</b>	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass 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)
2224220-15	May 23 - May 24, 2022	0.048	0.019	756	30
2224220-16	May 24 - May 25, 2022	0.047	0.024	756	31
2224220-17	May 25 - May 26, 2022	0.049	0.023	756	31
2224220-18	May 26 - May 27, 2022	0.036	0.022	756	30
2224220-19	May 27 - May 28, 2022	0.037	0.024	756	31
2224220-20	May 28 - May 29, 2022	0.041	0.032	756	30
2224220-21	May 29 - May 30, 2022	0.062	0.041	756	31
<b>Guideline</b>		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 :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224220**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2240615-4

Page 1 of 1

<b>Sample Description</b>	Air Quality				
<b>Location</b>	โรงเรียนบ้านโนนสะอาด (GPS 47P 0788786, 1552698)				
<b>Date Analysis Commenced</b>	Jun 01, 2022				
<b>Condition of Sample</b>	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass 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)
2224220-22	May 23 - May 24, 2022	0.042	0.023	756	30
2224220-23	May 24 - May 25, 2022	0.039	0.027	756	31
2224220-24	May 25 - May 26, 2022	0.044	0.025	756	31
2224220-25	May 26 - May 27, 2022	0.037	0.023	756	30
2224220-26	May 27 - May 28, 2022	0.037	0.024	756	31
2224220-27	May 28 - May 29, 2022	0.041	0.031	756	30
2224220-28	May 29 - May 30, 2022	0.062	0.043	756	31
<b>Guideline</b>		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 :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224220**

Date Received : May 31, 2022  
Date Reported : Jun 07, 2022  
Report Number: 2240615-5

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	พื้นที่โครงการ (GPS 47P 0792979, 1553115)
<b>Date Analysis Commenced</b>	Jun 01, 2022
<b>Condition of Sample</b>	Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass 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)
2224220-29	May 23 - May 24, 2022	0.033	0.024	756	30
2224220-30	May 24 - May 25, 2022	0.041	0.025	756	31
2224220-31	May 25 - May 26, 2022	0.039	0.021	756	31
2224220-32	May 26 - May 27, 2022	0.033	0.020	756	30
2224220-33	May 27 - May 28, 2022	0.036	0.020	756	31
2224220-34	May 28 - May 29, 2022	0.043	0.029	756	30
2224220-35	May 29 - May 30, 2022	0.060	0.036	756	31
<b>Guideline</b>		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 :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224220**

Date Received : May 31, 2022  
Date Reported : Jun 07, 2022  
Report Number: 2240615-6

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านเขานางจีน (GPS 47P 0790575, 1555766)  
**Date Analysis Commenced** Jun 01, 2022  
**Condition of Sample** Drawn into one quartz filter paper (8x10 inch) placed in plastic bag and one glass 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)
2224220-36	May 23 - May 24, 2022	0.027	0.015	756	30
2224220-37	May 24 - May 25, 2022	0.034	0.010	756	31
2224220-38	May 25 - May 26, 2022	0.031	0.018	756	31
2224220-39	May 26 - May 27, 2022	0.031	0.016	756	30
2224220-40	May 27 - May 28, 2022	0.030	0.018	756	31
2224220-41	May 28 - May 29, 2022	0.039	0.021	756	30
2224220-42	May 29 - May 30, 2022	0.043	0.018	756	31
<b>Guideline</b>		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 :** Nontachai Uppathamp

### Remark :

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

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2224217**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2240612-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดอ่างศิลา (GPS 47P 0792399, 1554146)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** May 23, 2022 - May 30, 2022  
**Measurement by** Nontachai Uppathamp

	2224217-1 May 23, 2022	2224217-2 May 24, 2022	2224217-3 May 25, 2022	2224217-4 May 26, 2022	2224217-5 May 27, 2022	2224217-6 May 28, 2022	2224217-7 May 29, 2022
Time							
09:00 AM - 10:00 AM	0.004	0.006	0.002	<0.001	0.001	<0.001	0.001
10:00 AM - 11:00 AM	0.007	0.010	0.002	<0.001	<0.001	<0.001	<0.001
11:00 AM - 12:00 PM	0.005	0.004	0.002	<0.001	<0.001	<0.001	<0.001
12:00 PM - 01:00 PM	0.003	0.002	0.002	<0.001	<0.001	<0.001	0.001
01:00 PM - 02:00 PM	0.001	0.003	0.002	<0.001	<0.001	<0.001	0.001
02:00 PM - 03:00 PM	0.002	0.003	<0.001	<0.001	<0.001	<0.001	0.001
03:00 PM - 04:00 PM	0.001	0.003	<0.001	<0.001	<0.001	0.001	<0.001
04:00 PM - 05:00 PM	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
05:00 PM - 06:00 PM	0.002	0.001	0.002	<0.001	<0.001	<0.001	<0.001
06:00 PM - 07:00 PM	0.006	0.001	0.004	<0.001	<0.001	<0.001	<0.001
07:00 PM - 08:00 PM	0.002	0.002	0.002	<0.001	<0.001	0.002	<0.001
08:00 PM - 09:00 PM	0.001	0.002	0.002	<0.001	<0.001	0.002	<0.001
09:00 PM - 10:00 PM	<0.001	0.001	0.002	0.001	0.001	<0.001	<0.001
10:00 PM - 11:00 PM	<0.001	0.001	0.001	0.001	0.001	<0.001	<0.001
11:00 PM - 12:00 AM	<0.001	0.002	0.001	0.002	0.001	<0.001	0.001
12:00 AM - 01:00 AM	<0.001	0.002	0.001	0.002	0.001	<0.001	<0.001
01:00 AM - 02:00 AM	<0.001	0.002	0.002	0.002	<0.001	<0.001	0.001
02:00 AM - 03:00 AM	<0.001	0.001	0.002	0.004	0.001	0.001	<0.001
03:00 AM - 04:00 AM	<0.001	0.003	0.002	0.004	0.001	0.001	0.001
04:00 AM - 05:00 AM	0.002	0.004	0.002	0.002	0.001	0.001	0.002
05:00 AM - 06:00 AM	0.001	0.006	0.002	0.002	0.002	0.003	0.002
06:00 AM - 07:00 AM	0.002	0.004	0.002	0.003	0.001	0.004	0.001
07:00 AM - 08:00 AM	0.002	0.002	0.001	0.002	0.001	0.001	0.001
08:00 AM - 09:00 AM	0.004	0.001	0.001	0.001	<0.001	0.001	<0.001
Average	0.002	0.003	0.002	0.001	0.001	0.001	<0.001
1hr - Maximum	0.007	0.010	0.004	0.004	0.002	0.004	0.002
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)

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.

Approved by

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2224217**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2335588-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดสระตูลีราษฎร์ (GPS 47P 0792636, 1550251)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** May 23, 2022 - May 30, 2022  
**Measurement by** Nontachai Uppathamp

	2224217-8 May 23, 2022	2224217-9 May 24, 2022	2224217-10 May 25, 2022	2224217-11 May 26, 2022	2224217-12 May 27, 2022	2224217-13 May 28, 2022	2224217-14 May 29, 2022
Time							
12:00 PM - 01:00 PM	0.002	0.002	0.002	0.002	0.003	0.004	0.004
01:00 PM - 02:00 PM	0.002	0.002	0.002	0.002	0.003	0.002	0.006
02:00 PM - 03:00 PM	0.002	0.002	0.002	0.002	0.004	0.002	0.006
03:00 PM - 04:00 PM	0.002	0.004	0.004	0.002	0.004	0.005	0.014
04:00 PM - 05:00 PM	0.002	0.002	0.002	0.002	0.003	0.006	0.008
05:00 PM - 06:00 PM	0.002	0.002	0.002	0.002	0.003	0.013	0.014
06:00 PM - 07:00 PM	0.002	0.002	0.002	0.002	0.003	0.005	0.007
07:00 PM - 08:00 PM	0.002	0.002	0.002	0.002	0.003	0.002	0.004
08:00 PM - 09:00 PM	0.002	0.002	0.002	0.002	0.003	0.005	0.004
09:00 PM - 10:00 PM	0.002	0.002	0.002	0.002	0.003	0.008	0.004
10:00 PM - 11:00 PM	0.002	0.002	0.002	0.002	0.003	0.004	0.004
11:00 PM - 12:00 AM	0.002	0.002	0.002	0.002	0.003	0.004	0.004
12:00 AM - 01:00 AM	0.002	0.002	0.002	0.002	0.003	0.004	0.004
01:00 AM - 02:00 AM	0.002	0.002	0.002	0.002	0.003	0.004	0.003
02:00 AM - 03:00 AM	0.002	0.002	0.002	0.002	0.003	0.002	0.004
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.002	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.002	0.002	0.002	0.002	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.002	0.002	0.002	0.003	0.004	0.004	0.004
06:00 AM - 07:00 AM	0.002	0.002	0.002	0.003	0.004	0.004	0.004
07:00 AM - 08:00 AM	0.002	0.002	0.002	0.003	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.002	0.002	0.002	0.003	0.004	0.004	0.004
09:00 AM - 10:00 AM	0.002	0.002	0.002	0.003	0.004	0.004	0.004
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.003	0.004	0.004	0.004
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.003	0.004	0.004	0.004
Average	0.002	0.002	0.002	0.002	0.004	0.004	0.005
1hr - Maximum	0.002	0.004	0.004	0.003	0.004	0.013	0.014
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)

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.

Approved by

*Saranya C.*

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2224217**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2335589-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านนาแวม (GPS 47P 0793851, 1554220)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** May 23, 2022 - May 30, 2022  
**Measurement by** Nontachai Uppathamp

	2224217-15 May 23, 2022	2224217-16 May 24, 2022	2224217-17 May 25, 2022	2224217-18 May 26, 2022	2224217-19 May 27, 2022	2224217-20 May 28, 2022	2224217-21 May 29, 2022
Time							
08:00 AM - 09:00 AM	0.002	0.004	0.002	0.002	0.002	0.003	0.002
09:00 AM - 10:00 AM	0.002	0.002	0.003	0.002	0.002	0.002	0.002
10:00 AM - 11:00 AM	0.002	0.002	0.003	0.002	0.002	0.002	0.002
11:00 AM - 12:00 PM	0.002	0.002	0.002	0.002	0.001	0.002	0.002
12:00 PM - 01:00 PM	0.002	0.002	0.002	0.002	0.003	0.002	0.002
01:00 PM - 02:00 PM	0.002	0.002	0.004	0.017	0.004	0.002	0.002
02:00 PM - 03:00 PM	0.002	0.002	0.006	0.002	0.002	0.002	0.002
03:00 PM - 04:00 PM	0.002	0.002	0.003	0.002	0.005	0.002	0.002
04:00 PM - 05:00 PM	0.002	0.002	0.005	0.002	0.003	0.002	0.002
05:00 PM - 06:00 PM	0.001	0.003	0.008	0.002	0.002	0.003	0.002
06:00 PM - 07:00 PM	0.001	0.003	0.003	0.002	0.002	0.003	0.002
07:00 PM - 08:00 PM	0.001	0.003	0.003	0.002	0.002	0.003	0.002
08:00 PM - 09:00 PM	0.001	0.003	0.005	0.005	0.002	0.003	0.002
09:00 PM - 10:00 PM	0.002	0.015	0.004	0.002	0.003	0.003	0.002
10:00 PM - 11:00 PM	0.004	0.005	0.004	0.003	0.004	0.004	0.002
11:00 PM - 12:00 AM	0.003	0.008	0.004	0.007	0.003	0.013	0.002
12:00 AM - 01:00 AM	0.003	0.006	0.004	0.004	0.004	0.006	0.003
01:00 AM - 02:00 AM	0.002	0.005	0.003	0.003	0.002	0.004	0.003
02:00 AM - 03:00 AM	0.003	0.004	0.002	0.016	0.002	0.003	0.002
03:00 AM - 04:00 AM	0.003	0.002	0.002	0.016	0.002	0.003	0.002
04:00 AM - 05:00 AM	0.003	0.003	0.002	0.002	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.004	0.003	0.002	0.002	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.006	0.002	0.002	0.002	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.006	0.002	0.002	0.002	0.003	0.002	0.002
Average	0.003	0.004	0.003	0.004	0.003	0.003	0.002
1hr - Maximum	0.006	0.015	0.008	0.017	0.005	0.013	0.003
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)

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.

Approved by

*Saranya C.*

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2224217**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2335592-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** โรงเรียนบ้านโนนสะอาด (GPS 47P 0788786, 1552698)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** May 23, 2022 - May 30, 2022  
**Measurement by** Nontachai Uppathamp

	2224217-22 May 23, 2022	2224217-23 May 24, 2022	2224217-24 May 25, 2022	2224217-25 May 26, 2022	2224217-26 May 27, 2022	2224217-27 May 28, 2022	2224217-28 May 29, 2022
Time							
11:00 AM - 12:00 PM	0.004	0.002	0.002	0.002	0.002	0.002	0.002
12:00 PM - 01:00 PM	0.004	0.002	0.004	0.002	0.002	0.002	0.002
01:00 PM - 02:00 PM	0.004	0.002	0.004	0.002	0.002	0.002	0.002
02:00 PM - 03:00 PM	0.004	0.002	0.003	0.002	0.002	0.002	0.002
03:00 PM - 04:00 PM	0.003	0.002	0.003	0.002	0.002	0.002	0.002
04:00 PM - 05:00 PM	0.003	0.002	0.003	0.002	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.003	0.003	0.003	0.002	0.003	0.002	0.002
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.002	0.003	0.002	0.002
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.002	0.003	0.002	0.002
08:00 PM - 09:00 PM	0.002	0.003	0.003	0.003	0.004	0.002	0.002
09:00 PM - 10:00 PM	0.002	0.003	0.004	0.003	0.004	0.003	0.002
10:00 PM - 11:00 PM	0.002	0.003	0.004	0.003	0.004	0.005	0.002
11:00 PM - 12:00 AM	0.002	0.003	0.005	0.004	0.004	0.007	0.002
12:00 AM - 01:00 AM	0.002	0.004	0.005	0.006	0.003	0.007	0.003
01:00 AM - 02:00 AM	0.002	0.004	0.003	0.006	0.002	0.005	0.007
02:00 AM - 03:00 AM	0.002	0.003	0.002	0.003	0.002	0.004	0.005
03:00 AM - 04:00 AM	0.002	0.002	0.002	0.003	0.002	0.003	0.003
04:00 AM - 05:00 AM	0.003	0.002	0.002	0.002	0.002	0.002	0.002
05:00 AM - 06:00 AM	0.003	0.002	0.002	0.002	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.003	0.002	0.002	0.002	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
08:00 AM - 09:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.002
09:00 AM - 10:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.001
10:00 AM - 11:00 AM	0.002	0.002	0.002	0.002	0.002	0.002	0.001
Average	0.003	0.003	0.003	0.003	0.003	0.003	0.002
1hr - Maximum	0.004	0.004	0.005	0.006	0.004	0.007	0.007
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)

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.

Approved by

*Saranya C.*

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2224217**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2335593-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** พื้นที่โครงการ (GPS 47P 0792979, 1553115)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** May 23, 2022 - May 30, 2022  
**Measurement by** Nontachai Uppathamp

	2224217-29 May 23, 2022	2224217-30 May 24, 2022	2224217-31 May 25, 2022	2224217-32 May 26, 2022	2224217-33 May 27, 2022	2224217-34 May 28, 2022	2224217-35 May 29, 2022
Time							
08:00 AM - 09:00 AM	0.005	0.004	0.004	0.004	0.003	0.003	0.004
09:00 AM - 10:00 AM	0.008	0.003	0.004	0.004	0.003	0.003	0.004
10:00 AM - 11:00 AM	0.002	0.003	0.003	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.004
12:00 PM - 01:00 PM	0.003	0.003	0.004	0.003	0.003	0.003	0.005
01:00 PM - 02:00 PM	0.003	0.003	0.004	0.004	0.003	0.003	0.004
02:00 PM - 03:00 PM	0.003	0.003	0.006	0.004	0.003	0.005	0.004
03:00 PM - 04:00 PM	0.004	0.005	0.007	0.004	0.003	0.005	0.004
04:00 PM - 05:00 PM	0.003	0.004	0.007	0.004	0.003	0.004	0.004
05:00 PM - 06:00 PM	0.003	0.006	0.008	0.004	0.003	0.004	0.003
06:00 PM - 07:00 PM	0.003	0.008	0.005	0.004	0.003	0.005	0.003
07:00 PM - 08:00 PM	0.003	0.006	0.006	0.005	0.003	0.005	0.003
08:00 PM - 09:00 PM	0.003	0.004	0.005	0.005	0.003	0.006	0.003
09:00 PM - 10:00 PM	0.003	0.004	0.004	0.004	0.003	0.006	0.003
10:00 PM - 11:00 PM	0.004	0.004	0.003	0.004	0.003	0.005	0.003
11:00 PM - 12:00 AM	0.004	0.004	0.003	0.004	0.003	0.004	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	0.003	0.004	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.004	0.004	0.004	0.003	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.004	0.004	0.004	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.004	0.004	0.004	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.004	0.004	0.005	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.006	0.004	0.005	0.004	0.004	0.005	0.004
07:00 AM - 08:00 AM	0.006	0.004	0.005	0.004	0.004	0.005	0.004
Average	0.004	0.004	0.005	0.004	0.003	0.004	0.003
1hr - Maximum	0.008	0.008	0.008	0.005	0.004	0.006	0.005
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)

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.

Approved by

*Saranya C.*

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2224217**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2335594-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านเขานางจีน (GPS 47P 0790575, 1555766)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** May 23, 2022 - May 30, 2022  
**Measurement by** Nontachai Uppathamp

	2224217-36 May 23, 2022	2224217-37 May 24, 2022	2224217-38 May 25, 2022	2224217-39 May 26, 2022	2224217-40 May 27, 2022	2224217-41 May 28, 2022	2224217-42 May 29, 2022
Time							
10:00 AM - 11:00 AM	0.004	<0.001	0.001	0.003	<0.001	0.001	<0.001
11:00 AM - 12:00 PM	0.006	<0.001	<0.001	0.003	<0.001	0.001	<0.001
12:00 PM - 01:00 PM	0.007	0.001	0.001	0.003	0.001	0.002	<0.001
01:00 PM - 02:00 PM	0.007	0.003	0.001	0.007	<0.001	0.001	<0.001
02:00 PM - 03:00 PM	0.004	0.002	0.008	0.004	0.002	<0.001	<0.001
03:00 PM - 04:00 PM	0.006	0.003	0.002	0.002	0.003	0.001	0.001
04:00 PM - 05:00 PM	0.003	0.001	<0.001	0.002	0.003	0.005	0.001
05:00 PM - 06:00 PM	0.002	0.002	0.002	0.001	<0.001	<0.001	0.002
06:00 PM - 07:00 PM	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	0.001
07:00 PM - 08:00 PM	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
08:00 PM - 09:00 PM	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001
09:00 PM - 10:00 PM	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001
10:00 PM - 11:00 PM	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001
11:00 PM - 12:00 AM	<0.001	<0.001	0.001	0.003	0.001	<0.001	<0.001
12:00 AM - 01:00 AM	<0.001	<0.001	0.002	0.004	<0.001	<0.001	<0.001
01:00 AM - 02:00 AM	0.002	<0.001	0.001	0.005	<0.001	<0.001	<0.001
02:00 AM - 03:00 AM	<0.001	<0.001	0.001	0.004	<0.001	0.002	<0.001
03:00 AM - 04:00 AM	<0.001	<0.001	<0.001	0.006	<0.001	0.002	<0.001
04:00 AM - 05:00 AM	0.001	<0.001	0.001	0.007	<0.001	0.002	<0.001
05:00 AM - 06:00 AM	0.002	<0.001	<0.001	0.003	0.001	0.005	<0.001
06:00 AM - 07:00 AM	0.003	0.002	0.001	0.002	0.003	0.004	<0.001
07:00 AM - 08:00 AM	0.006	0.003	0.004	0.008	0.004	0.007	<0.001
08:00 AM - 09:00 AM	0.002	0.001	0.002	0.005	0.004	0.005	<0.001
09:00 AM - 10:00 AM	<0.001	0.002	0.001	<0.001	0.002	0.003	<0.001
Average	0.003	0.001	0.001	0.003	0.001	0.002	<0.001
1hr - Maximum	0.007	0.003	0.008	0.008	0.004	0.007	0.002
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)

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.

Approved by

*Saranya C.*

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2224218**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2240613-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดอ่างศิลา (GPS 47P 0792399, 1554146)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** May 23, 2022 - May 30, 2022  
**Measurement by** Nontachai Uppathamp

	2224218-1 May 23, 2022	2224218-2 May 24, 2022	2224218-3 May 25, 2022	2224218-4 May 26, 2022	2224218-5 May 27, 2022	2224218-6 May 28, 2022	2224218-7 May 29, 2022
Time							
09:00 AM - 10:00 AM	0.003	0.004	0.004	0.003	0.003	0.004	0.003
10:00 AM - 11:00 AM	0.004	0.004	0.004	0.003	0.004	0.005	0.004
11:00 AM - 12:00 PM	<0.001	0.004	0.004	0.004	0.004	0.006	0.008
12:00 PM - 01:00 PM	0.004	0.006	0.004	0.004	0.004	0.005	0.009
01:00 PM - 02:00 PM	0.004	0.006	0.004	0.004	0.004	0.004	0.005
02:00 PM - 03:00 PM	0.003	0.004	0.004	0.003	0.004	0.004	0.004
03:00 PM - 04:00 PM	0.003	0.004	0.004	0.003	0.004	0.004	0.004
04:00 PM - 05:00 PM	0.003	0.003	0.004	0.003	0.003	0.004	0.004
05:00 PM - 06:00 PM	0.003	0.003	0.004	0.003	0.004	0.003	0.004
06:00 PM - 07:00 PM	0.003	0.003	0.004	0.003	0.003	0.004	0.004
07:00 PM - 08:00 PM	0.004	0.003	0.004	0.003	0.003	0.004	0.003
08:00 PM - 09:00 PM	0.005	0.003	0.004	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	0.004	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	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.003	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	0.003	0.003	0.003	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Average	0.003	0.004	0.004	0.003	0.003	0.004	0.004
1hr - Maximum	0.005	0.006	0.004	0.004	0.004	0.006	0.009
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

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.

Approved by

*Saranya C.*

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2224218**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2335597-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดสระตูละคร (GPS 47P 0792636, 1550251)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** May 23, 2022 - May 30, 2022  
**Measurement by** Nontachai Uppathamp

	2224218-8 May 23, 2022	2224218-9 May 24, 2022	2224218-10 May 25, 2022	2224218-11 May 26, 2022	2224218-12 May 27, 2022	2224218-13 May 28, 2022	2224218-14 May 29, 2022
Time							
12:00 PM - 01:00 PM	0.005	0.005	0.005	0.006	0.006	0.005	0.005
01:00 PM - 02:00 PM	0.005	0.005	0.006	0.006	0.006	0.005	0.005
02:00 PM - 03:00 PM	0.005	0.005	0.006	0.006	0.006	0.005	0.005
03:00 PM - 04:00 PM	0.005	0.005	0.006	0.006	0.006	0.005	0.005
04:00 PM - 05:00 PM	0.005	0.005	0.006	0.006	0.009	0.005	0.005
05:00 PM - 06:00 PM	0.005	0.005	0.006	0.006	0.010	0.005	0.005
06:00 PM - 07:00 PM	0.005	0.005	0.006	0.006	0.006	0.005	0.005
07:00 PM - 08:00 PM	0.005	0.005	0.005	0.006	0.005	0.005	0.005
08:00 PM - 09:00 PM	0.005	0.005	0.006	0.006	0.005	0.005	0.005
09:00 PM - 10:00 PM	0.005	0.005	0.006	0.006	0.005	0.005	0.005
10:00 PM - 11:00 PM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
11:00 PM - 12:00 AM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
12:00 AM - 01:00 AM	0.005	0.005	0.006	0.005	0.005	0.005	0.005
01:00 AM - 02:00 AM	0.006	0.005	0.006	0.005	0.005	0.005	0.005
02:00 AM - 03:00 AM	0.005	0.005	0.006	0.005	0.005	0.005	0.005
03:00 AM - 04:00 AM	0.005	0.005	0.006	0.005	0.005	0.005	0.005
04:00 AM - 05:00 AM	0.005	0.005	0.006	0.005	0.005	0.005	0.005
05:00 AM - 06:00 AM	0.005	0.005	0.006	0.005	0.005	0.007	0.005
06:00 AM - 07:00 AM	0.005	0.005	0.006	0.005	0.005	0.007	0.005
07:00 AM - 08:00 AM	0.005	0.005	0.006	0.005	0.005	0.006	0.005
08:00 AM - 09:00 AM	0.005	0.005	0.006	0.005	0.005	0.005	0.005
09:00 AM - 10:00 AM	0.005	0.005	0.006	0.006	0.005	0.005	0.005
10:00 AM - 11:00 AM	0.005	0.005	0.006	0.005	0.005	0.005	0.005
11:00 AM - 12:00 PM	0.005	0.005	0.006	0.005	0.005	0.005	0.005
Average	0.005	0.005	0.005	0.006	0.006	0.005	0.005
1hr - Maximum	0.006	0.005	0.006	0.006	0.010	0.007	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

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.

Approved by

*Saranya C.*

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER





## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2224218**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2335599-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านนาแซง (GPS 47P 0793851, 1554220)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** May 23, 2022 - May 30, 2022  
**Measurement by** Nontachai Uppathamp

	2224218-15 May 23, 2022	2224218-16 May 24, 2022	2224218-17 May 25, 2022	2224218-18 May 26, 2022	2224218-19 May 27, 2022	2224218-20 May 28, 2022	2224218-21 May 29, 2022
Time							
08:00 AM - 09:00 AM	0.003	0.003	0.003	0.004	0.003	0.003	0.003
09:00 AM - 10:00 AM	0.003	0.003	0.004	0.003	0.003	0.003	0.003
10:00 AM - 11:00 AM	0.003	0.003	0.004	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
12:00 PM - 01:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
01:00 PM - 02:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03:00 PM - 04:00 PM	0.003	0.003	0.004	0.004	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.003	0.003	0.004	0.004	0.003	0.004	0.003
05:00 PM - 06:00 PM	0.003	0.003	0.004	0.004	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.003	0.003	0.004	0.003	0.003	0.004	0.003
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.003	0.003	0.004	0.003
08:00 PM - 09:00 PM	0.003	0.002	0.003	0.004	0.004	0.004	0.003
09:00 PM - 10:00 PM	0.003	0.004	0.003	0.003	0.004	0.004	0.003
10:00 PM - 11:00 PM	0.003	0.004	0.003	0.003	0.004	0.003	0.003
11:00 PM - 12:00 AM	0.003	0.003	0.004	0.003	0.004	0.003	0.003
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.003	0.004	0.004	0.003
01:00 AM - 02:00 AM	0.003	0.003	0.003	0.004	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.003	0.003	0.004	0.003	0.003	0.004	0.004
03:00 AM - 04:00 AM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.003	0.003	0.003	0.003	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.003	0.003	0.004	0.003	0.003	0.004	0.004
06:00 AM - 07:00 AM	0.003	0.003	0.003	0.003	0.003	0.004	0.003
07:00 AM - 08:00 AM	0.003	0.003	0.007	0.003	0.004	0.003	0.003
Average	0.003	0.003	0.004	0.003	0.003	0.003	0.003
1hr - Maximum	0.003	0.004	0.007	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

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.

Approved by

*Saranya C.*

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2224218**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2335601-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** โรงเรียนบ้านโนนสะอาด (GPS 47P 0788786, 1552698)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** May 23, 2022 - May 30, 2022  
**Measurement by** Nontachai Uppathamp

Time	2224218-22 May 23, 2022	2224218-23 May 24, 2022	2224218-24 May 25, 2022	2224218-25 May 26, 2022	2224218-26 May 27, 2022	2224218-27 May 28, 2022	2224218-28 May 29, 2022
11:00 AM - 12:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
12:00 PM - 01:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
01:00 PM - 02:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03:00 PM - 04:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
05:00 PM - 06:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
09:00 PM - 10:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10:00 PM - 11:00 PM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.003	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	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.003	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	0.003	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	0.003	0.003	0.003	0.003	0.003	0.003	0.003
07:00 AM - 08:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
09:00 AM - 10:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
10:00 AM - 11:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Average	0.003	0.003	0.003	0.003	0.003	0.003	0.003
1hr - Maximum	0.004	0.003	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

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.

Approved by

*Saranya C.*

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
 ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2224218**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2335602-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** พื้นที่โครงการ (GPS 47P 0792979, 1553115)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** May 23, 2022 - May 30, 2022  
**Measurement by** Nontachai Uppathamp

Time	2224218-29 May 23, 2022	2224218-30 May 24, 2022	2224218-31 May 25, 2022	2224218-32 May 26, 2022	2224218-33 May 27, 2022	2224218-34 May 28, 2022	2224218-35 May 29, 2022
08:00 AM - 09:00 AM	0.004	0.005	0.004	0.004	0.004	0.004	0.004
09:00 AM - 10:00 AM	0.005	0.005	0.004	0.004	0.004	0.004	0.004
10:00 AM - 11:00 AM	0.005	0.005	0.004	0.004	0.004	0.004	0.004
11:00 AM - 12:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
12:00 PM - 01:00 PM	0.005	0.004	0.004	0.004	0.004	0.004	0.004
01:00 PM - 02:00 PM	0.005	0.004	0.004	0.004	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.004	0.004	0.004	0.005	0.005	0.004	0.004
03:00 PM - 04:00 PM	0.005	0.004	0.004	0.005	0.004	0.004	0.004
04:00 PM - 05:00 PM	0.005	0.004	0.004	0.005	0.004	0.004	0.004
05:00 PM - 06:00 PM	0.005	0.004	0.004	0.005	0.005	0.004	0.005
06:00 PM - 07:00 PM	0.004	0.005	0.004	0.005	0.004	0.004	0.005
07:00 PM - 08:00 PM	0.004	0.004	0.004	0.005	0.004	0.004	0.004
08:00 PM - 09:00 PM	0.004	0.004	0.004	0.005	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.004	0.004	0.004	0.005	0.004	0.004	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	0.004	0.004	0.004	0.003	0.004	0.004
01:00 AM - 02:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
02:00 AM - 03:00 AM	0.005	0.004	0.004	0.004	0.004	0.004	0.004
03:00 AM - 04:00 AM	0.005	0.004	0.004	0.004	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.005	0.004	0.004	0.004	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
06:00 AM - 07:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
07:00 AM - 08:00 AM	0.005	0.004	0.004	0.004	0.004	0.004	0.004
Average	0.005	0.004	0.004	0.004	0.004	0.004	0.004
1hr - Maximum	0.005	0.005	0.004	0.005	0.005	0.004	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

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.

Approved by

*Saranya C.*

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID: 2224218**

Date Received : May 31, 2022

Date Reported : Jun 07, 2022

Report Number: 2335603-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** ชุมชนบ้านเขานางจีน (GPS 47P 0792979, 1553115)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** May 23, 2022 - May 30, 2022  
**Measurement by** Nontachai Uppathamp

	2224218-36 May 23, 2022	2224218-37 May 24, 2022	2224218-38 May 25, 2022	2224218-39 May 26, 2022	2224218-40 May 27, 2022	2224218-41 May 28, 2022	2224218-42 May 29, 2022
Time							
10:00 AM - 11:00 AM	0.003	0.003	0.002	0.003	0.003	0.003	0.003
11:00 AM - 12:00 PM	0.003	0.003	0.002	0.003	0.003	0.003	0.003
12:00 PM - 01:00 PM	0.003	0.003	0.002	0.003	0.003	0.004	0.004
01:00 PM - 02:00 PM	0.003	0.003	0.002	0.003	0.003	0.003	0.004
02:00 PM - 03:00 PM	0.003	0.003	0.002	0.003	0.003	0.003	0.004
03:00 PM - 04:00 PM	0.003	0.003	0.002	0.003	0.003	0.003	0.004
04:00 PM - 05:00 PM	0.003	0.003	0.002	0.003	0.003	0.003	0.004
05:00 PM - 06:00 PM	0.003	0.003	0.002	0.003	0.003	0.003	0.004
06:00 PM - 07:00 PM	0.003	0.003	0.002	0.003	0.003	0.003	0.004
07:00 PM - 08:00 PM	0.003	0.003	0.002	0.003	0.003	0.003	0.004
08:00 PM - 09:00 PM	0.003	0.003	0.002	0.003	0.003	0.003	0.004
09:00 PM - 10:00 PM	0.003	0.003	0.002	0.003	0.003	0.003	0.004
10:00 PM - 11:00 PM	0.003	0.003	0.002	0.003	0.003	0.003	0.004
11:00 PM - 12:00 AM	0.003	0.003	0.002	0.003	0.003	0.003	0.004
12:00 AM - 01:00 AM	0.003	0.003	0.002	0.003	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.003	0.003	0.003	0.003	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.003	0.002	0.003	0.003	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.003	0.002	0.003	0.003	0.003	0.003	0.002
07:00 AM - 08:00 AM	0.003	0.002	0.003	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.003	0.002	0.003	0.003	0.003	0.003	0.002
09:00 AM - 10:00 AM	0.003	0.002	0.003	0.003	0.003	0.003	0.003
Average	0.003	0.003	0.003	0.003	0.003	0.003	0.003
1hr - Maximum	0.003	0.003	0.003	0.003	0.003	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

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.

Approved by

*Saranya C.*

Saranya Chalermthamrong

Scientist (4)

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company

Life Sciences

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : สัญญาเลขที่ 4600001511

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID** : 2224219

Date Received : May 31, 2022

Date Reported : Jun 08, 2022

Report Number : 2240614-1

Page 1 of 2

**Sample Number** : 2224219-1 to 7  
**Parameter** : Wind Speed / Wind Direction  
**Location** : วัดอ่างศิลา (GPS 47P 0792399, 1554146)  
**Sampling Date** : May 23 - May 30, 2022  
**Sampling by** : Nontachai Uppathamp

Time	May 23 - May 24, 2022			May 24 - May 25, 2022			May 25 - May 26, 2022			May 26 - May 27, 2022			May 27 - May 28, 2022			May 28 - May 29, 2022			May 29 - May 30, 2022		
	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	1.5	56.0	NE	0.3	63.0	ENE	0.7	5.0	N	0.7	148.0	SSE	1.0	297.0	WNW	0.6	223.0	SW	0.6	279.0	W
10:00 AM - 11:00 AM	0.8	55.0	NE	0.1	-	-	0.5	5.0	N	0.4	150.0	SSE	0.3	298.0	WNW	0.6	219.0	SW	0.6	284.0	WNW
11:00 AM - 12:00 PM	0.3	55.0	NE	0.2	-	-	0.5	5.0	N	0.1	-	-	0.5	297.0	WNW	0.3	217.0	SW	0.2	-	-
12:00 PM - 01:00 PM	0.2	-	-	0.0	-	-	0.7	5.0	N	0.4	150.0	SSE	0.1	-	-	0.4	220.0	SW	0.7	281.0	W
01:00 PM - 02:00 PM	0.2	-	-	0.3	63.0	ENE	0.0	-	-	0.4	149.0	SSE	0.2	-	-	0.3	218.0	SW	0.0	-	-
02:00 PM - 03:00 PM	1.6	55.0	NE	0.4	38.0	NE	0.2	-	-	1.2	148.0	SSE	0.0	-	-	0.1	-	-	0.2	-	-
03:00 PM - 04:00 PM	0.3	55.0	NE	0.7	37.0	NE	1.0	73.0	ENE	1.0	148.0	SSE	1.0	299.0	WNW	0.2	-	-	0.0	-	-
04:00 PM - 05:00 PM	0.9	56.0	NE	0.0	-	-	0.8	85.0	E	0.6	142.0	SE	1.4	289.0	WNW	0.6	214.0	SW	0.3	291.0	WNW
05:00 PM - 06:00 PM	1.4	172.0	S	0.3	254.0	WSW	2.9	193.0	SSW	0.6	151.0	SSE	1.9	188.0	S	1.3	229.0	SW	0.9	281.0	W
06:00 PM - 07:00 PM	1.4	215.0	SW	1.0	313.0	NW	2.1	213.0	SSW	1.1	150.0	SSE	1.6	187.0	S	1.4	255.0	WSW	1.4	297.0	WNW
07:00 PM - 08:00 PM	2.2	123.0	ESE	0.2	-	-	1.8	169.0	S	1.5	156.0	SSE	1.4	92.0	E	1.4	313.0	NW	1.7	87.0	E
08:00 PM - 09:00 PM	0.5	156.0	SSE	0.1	-	-	1.2	190.0	S	1.9	130.0	SE	0.7	298.0	WNW	2.7	168.0	SSE	2.0	191.0	S
09:00 PM - 10:00 PM	0.4	87.0	E	0.1	-	-	3.5	200.0	SSW	2.6	173.0	S	2.4	228.0	SW	2.8	168.0	SSE	2.5	150.0	SSE
10:00 PM - 11:00 PM	0.6	155.0	SSE	0.4	167.0	SSE	2.7	217.0	SW	2.1	164.0	SSE	0.2	-	-	1.2	209.0	SSW	2.3	179.0	S
11:00 PM - 12:00 AM	0.4	172.0	S	0.6	142.0	SE	0.6	193.0	SSW	1.4	164.0	SSE	0.2	-	-	0.8	156.0	SSE	2.7	179.0	S
12:00 AM - 01:00 AM	0.2	-	-	0.2	-	-	0.2	-	-	0.4	163.0	SSE	0.5	89.0	E	0.4	156.0	SSE	2.2	196.0	SSW
01:00 AM - 02:00 AM	0.3	85.0	E	0.2	-	-	2.0	94.0	E	1.0	162.0	SSE	1.2	248.0	WSW	1.2	155.0	SSE	1.6	313.0	NW
02:00 AM - 03:00 AM	1.2	91.0	E	0.5	85.0	E	2.1	149.0	SSE	1.7	163.0	SSE	1.6	268.0	W	1.8	285.0	WNW	3.4	7.0	N
03:00 AM - 04:00 AM	2.5	61.0	ENE	0.2	-	-	0.7	150.0	SSE	0.8	163.0	SSE	0.5	217.0	SW	1.6	275.0	W	3.6	205.0	SSW
04:00 AM - 05:00 AM	0.3	60.0	ENE	1.0	0.0	N	0.2	-	-	0.6	124.0	SE	0.6	222.0	SW	2.3	188.0	S	3.0	27.0	NNE
05:00 AM - 06:00 AM	0.3	61.0	ENE	0.2	-	-	1.2	149.0	SSE	3.2	294.0	WNW	0.9	217.0	SW	2.5	278.0	W	1.9	156.0	SSE
06:00 AM - 07:00 AM	0.4	62.0	ENE	1.4	5.0	N	0.2	-	-	1.2	296.0	WNW	0.5	221.0	SW	0.8	278.0	W	2.0	110.0	ESE
07:00 AM - 08:00 AM	0.6	63.0	ENE	1.2	5.0	N	2.4	165.0	SSE	0.2	-	-	0.5	220.0	SW	0.5	280.0	W	2.0	272.0	W
08:00 AM - 09:00 AM	0.4	64.0	ENE	0.2	-	-	2.4	146.0	SE	0.8	297.0	WNW	0.8	221.0	SW	1.4	283.0	WNW	2.3	55.0	NE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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.

Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : สัญญาเลขที่ 4600001511

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID** : 2224219

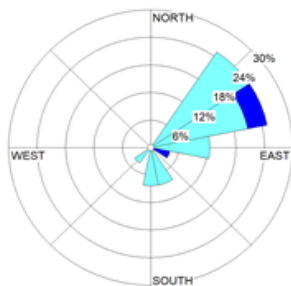
Date Received : May 31, 2022

Date Reported : Jun 08, 2022

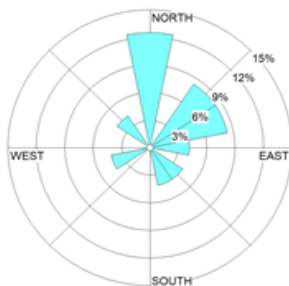
Report Number : 2240614-1

Page 2 of 2

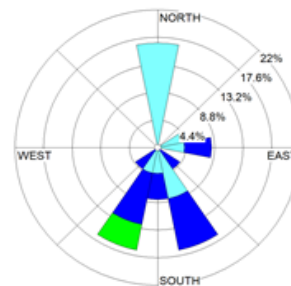
### Wind Rose



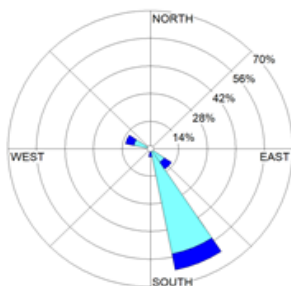
**Date : May 23-24, 2022**



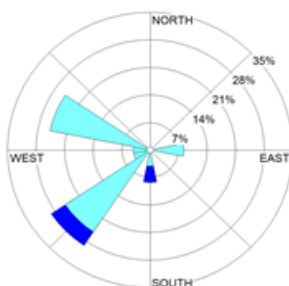
**Date : May 24-25, 2022**



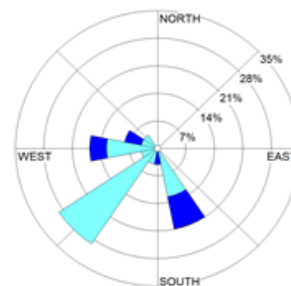
**Date : May 25-26, 2022**



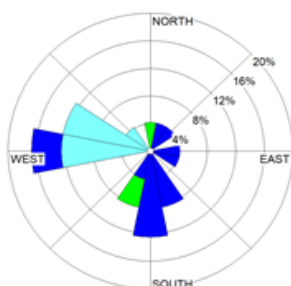
**Date : May 26-27, 2022**



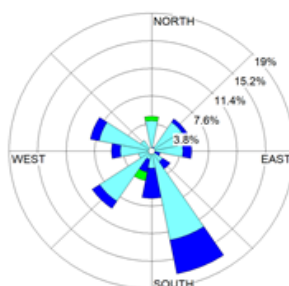
**Date : May 27-28, 2022**



**Date : May 28-29, 2022**



**Date : May 29-30, 2022**



**Date : May 23-30, 2022**

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	1.79
1.7-3.3	19.64
0.3-1.7	58.93
Calms	19.64

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.

Approved by

Sarayuth Jitranont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : สัญญาเลขที่ 4600001511

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID** : 2224219

Date Received : May 31, 2022

Date Reported : Jun 08, 2022

Report Number : 2240614-1

Page 1 of 2

**Sample Number** : 2224219-8 to 14  
**Parameter** : Wind Speed / Wind Direction  
**Location** : วัดสระตู่ศรีทราท่า (GPS 47P 0792636, 1550251)  
**Sampling Date** : May 23 - May 30, 2022  
**Sampling by** : Nontachai Uppathamp

Time	May 23 - May 24, 2022			May 24 - May 25, 2022			May 25 - May 26, 2022			May 26 - May 27, 2022			May 27 - May 28, 2022			May 28 - May 29, 2022			May 29 - May 30, 2022		
	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	2.5	176.0	S	3.4	117.0	ESE	4.3	107.0	ESE	3.2	178.0	S	3.7	327.0	NNW	3.0	170.0	S	3.2	0.0	N
01:00 PM - 02:00 PM	0.9	355.0	N	2.6	172.0	S	3.7	349.0	N	4.5	323.0	NW	2.9	295.0	WNW	3.2	345.0	NNW	2.8	46.0	NE
02:00 PM - 03:00 PM	1.2	235.0	SW	4.4	274.0	W	3.6	299.0	WNW	2.9	235.0	SW	5.6	9.0	N	4.1	17.0	NNE	2.3	232.0	SW
03:00 PM - 04:00 PM	0.2	-	-	2.5	336.0	NNW	1.8	271.0	W	2.5	46.0	NE	3.9	166.0	SSE	3.6	9.0	N	2.9	297.0	WNW
04:00 PM - 05:00 PM	1.5	209.0	SSW	2.0	165.0	SSE	4.0	340.0	NNW	0.6	48.0	NE	3.4	134.0	SE	3.5	168.0	SSE	3.1	298.0	WNW
05:00 PM - 06:00 PM	1.2	132.0	SE	3.5	118.0	ESE	4.2	153.0	SSE	2.6	180.0	S	1.8	0.0	N	1.6	224.0	SW	2.6	76.0	ENE
06:00 PM - 07:00 PM	0.9	79.0	E	3.0	267.0	W	2.6	234.0	SW	3.7	105.0	ESE	3.9	316.0	NW	4.3	203.0	SSW	1.0	155.0	SSE
07:00 PM - 08:00 PM	2.3	332.0	NNW	1.7	98.0	E	1.8	185.0	S	1.5	152.0	SSE	2.4	326.0	NW	1.8	340.0	NNW	2.0	135.0	SE
08:00 PM - 09:00 PM	1.9	337.0	NNW	1.0	99.0	E	1.5	177.0	S	3.4	284.0	WNW	1.2	231.0	SW	2.4	1.0	N	1.0	148.0	SSE
09:00 PM - 10:00 PM	0.2	-	-	0.8	134.0	SE	0.8	206.0	SSW	3.6	33.0	NNE	1.2	156.0	SSE	2.3	330.0	NNW	0.6	109.0	ESE
10:00 PM - 11:00 PM	1.2	313.0	NW	0.5	148.0	SSE	0.7	206.0	SSW	0.3	34.0	NE	0.0	-	-	1.2	166.0	SSE	0.3	132.0	SE
11:00 PM - 12:00 AM	0.4	243.0	WSW	1.2	331.0	NNW	2.3	250.0	WSW	0.0	-	-	0.6	10.0	N	1.6	165.0	SSE	0.4	79.0	E
12:00 AM - 01:00 AM	0.3	313.0	NW	0.4	326.0	NW	2.5	186.0	S	0.7	102.0	ESE	0.9	77.0	ENE	0.1	-	-	0.2	-	-
01:00 AM - 02:00 AM	0.3	312.0	NW	0.0	-	-	1.1	275.0	W	0.1	-	-	1.3	34.0	NE	1.0	31.0	NNE	1.0	137.0	SE
02:00 AM - 03:00 AM	1.5	333.0	NNW	0.6	333.0	NNW	0.2	-	-	0.2	-	-	0.0	-	-	0.4	44.0	NE	1.2	125.0	SE
03:00 AM - 04:00 AM	0.3	272.0	W	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.9	57.0	ENE	0.3	131.0	SE
04:00 AM - 05:00 AM	0.4	211.0	SSW	0.2	-	-	0.0	-	-	0.1	-	-	0.7	80.0	E	0.0	-	-	0.4	256.0	WSW
05:00 AM - 06:00 AM	0.3	219.0	SW	0.1	-	-	0.3	258.0	WSW	0.0	-	-	1.0	81.0	E	0.2	-	-	1.0	255.0	WSW
06:00 AM - 07:00 AM	2.2	316.0	NW	0.4	323.0	NW	0.0	-	-	0.2	-	-	0.2	-	-	0.3	57.0	ENE	0.2	-	-
07:00 AM - 08:00 AM	2.1	335.0	NNW	1.0	196.0	SSW	0.2	-	-	1.0	96.0	E	0.1	-	-	0.1	-	-	0.3	324.0	NW
08:00 AM - 09:00 AM	2.5	342.0	NNW	1.8	205.0	SSW	0.0	-	-	1.0	266.0	W	0.0	-	-	0.2	-	-	0.4	300.0	WNW
09:00 AM - 10:00 AM	4.0	256.0	WSW	2.9	321.0	NW	0.8	181.0	S	2.5	117.0	ESE	1.1	114.0	ESE	0.0	-	-	1.5	162.0	SSE
10:00 AM - 11:00 AM	2.0	320.0	NW	3.0	170.0	S	1.3	182.0	S	4.1	146.0	SE	2.2	173.0	S	1.7	303.0	WNW	3.2	175.0	S
11:00 AM - 12:00 PM	1.7	119.0	ESE	3.8	333.0	NNW	1.5	359.0	N	3.4	101.0	E	4.0	191.0	S	4.1	166.0	SSE	2.4	346.0	NNW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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.

Approved by

Sarayuth Jittrantont  
Assistant General Manager





## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : สัญญาเลขที่ 4600001511

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID** : 2224219

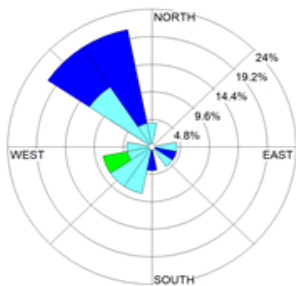
Date Received : May 31, 2022

Date Reported : Jun 08, 2022

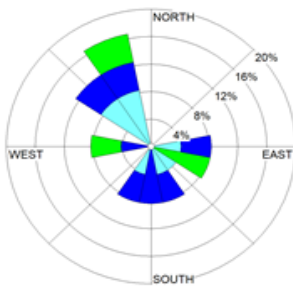
Report Number : 2240614-1

Page 2 of 2

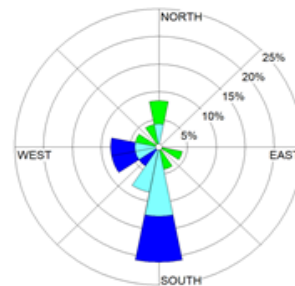
### Wind Rose



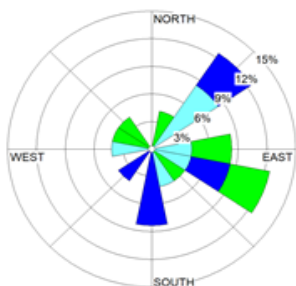
**Date : May 23-24, 2022**



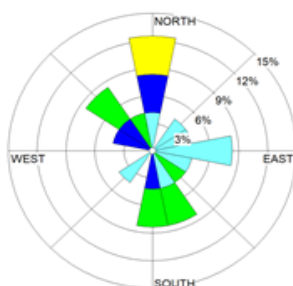
**Date : May 24-25, 2022**



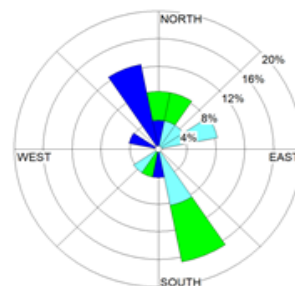
**Date : May 25-26, 2022**



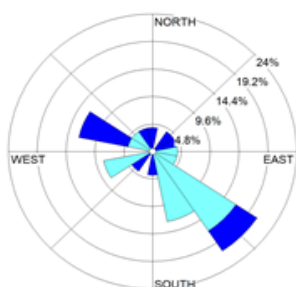
**Date : May 26-27, 2022**



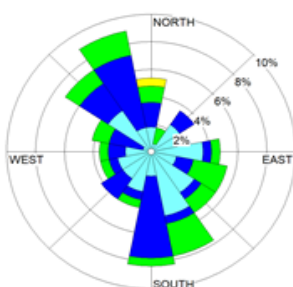
**Date : May 27-28, 2022**



**Date : May 28-29, 2022**



**Date : May 29-30, 2022**



**Date : May 23-30, 2022**

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.60
3.3-5.5	15.47
1.7-3.3	26.79
0.3-1.7	37.50
Calms	19.64

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.

Approved by

Sarayuth Jitranont  
Assistant General Manager





## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : สัญญาเลขที่ 4600001511

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID** : 2224219

Date Received : May 31, 2022

Date Reported : Jun 08, 2022

Report Number : 2240614-1

Page 1 of 2

**Sample Number** : 2224219-15 to 21  
**Parameter** : Wind Speed / Wind Direction  
**Location** : ชุมชนบ้านนาหม (GPS 47P 0793851, 1554220)  
**Sampling Date** : May 23 - May 30, 2022  
**Sampling by** : Nontachai Uppathamp

Time	May 23 - May 24, 2022			May 24 - May 25, 2022			May 25 - May 26, 2022			May 26 - May 27, 2022			May 27 - May 28, 2022			May 28 - May 29, 2022			May 29 - May 30, 2022		
	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)	
08:00 AM - 09:00 AM	4.0	68.0	ENE	2.8	349.0	N	0.6	78.0	ENE	2.2	202.0	SSW	3.6	260.0	W	1.3	29.0	NNE	1.4	258.0	WSW
09:00 AM - 10:00 AM	2.2	75.0	ENE	3.1	348.0	NNW	3.0	77.0	ENE	2.1	203.0	SSW	2.5	259.0	W	2.0	27.0	NNE	3.0	72.0	ENE
10:00 AM - 11:00 AM	2.1	81.0	E	1.3	348.0	NNW	1.7	78.0	ENE	1.0	203.0	SSW	1.3	264.0	W	2.0	288.0	WNW	1.8	141.0	SE
11:00 AM - 12:00 PM	2.0	110.0	ESE	0.7	348.0	NNW	1.9	78.0	ENE	1.3	204.0	SSW	1.2	262.0	W	1.3	291.0	WNW	4.0	96.0	E
12:00 PM - 01:00 PM	3.4	110.0	ESE	1.3	349.0	N	2.9	135.0	SE	1.6	205.0	SSW	2.7	262.0	W	1.5	290.0	WNW	2.6	136.0	SE
01:00 PM - 02:00 PM	1.3	136.0	SE	1.6	349.0	N	1.7	145.0	SE	0.6	203.0	SSW	1.9	263.0	W	1.9	289.0	WNW	2.9	43.0	NE
02:00 PM - 03:00 PM	1.5	136.0	SE	1.5	349.0	N	1.8	135.0	SE	2.1	272.0	W	1.2	262.0	W	2.7	291.0	WNW	2.7	146.0	SE
03:00 PM - 04:00 PM	1.5	204.0	SSW	1.5	349.0	N	0.7	89.0	E	0.7	293.0	WNW	0.8	259.0	W	2.4	293.0	WNW	2.8	126.0	SE
04:00 PM - 05:00 PM	0.7	121.0	ESE	1.1	155.0	SSE	0.0	-	-	0.8	131.0	SE	0.8	286.0	WNW	2.2	269.0	W	2.2	144.0	SE
05:00 PM - 06:00 PM	1.0	133.0	SE	1.4	143.0	SE	1.4	130.0	SE	0.7	165.0	SSE	0.4	131.0	SE	2.8	44.0	NE	2.1	157.0	SSE
06:00 PM - 07:00 PM	0.4	73.0	ENE	0.0	-	-	0.0	-	-	0.4	93.0	E	0.2	-	-	2.8	80.0	E	3.3	70.0	ENE
07:00 PM - 08:00 PM	0.8	113.0	ESE	0.8	150.0	SSE	1.3	102.0	ESE	0.7	130.0	SE	0.6	143.0	SE	2.9	91.0	E	1.6	87.0	E
08:00 PM - 09:00 PM	0.8	150.0	SSE	0.0	-	-	0.4	139.0	SE	2.4	153.0	SSE	0.3	201.0	SSW	2.4	149.0	SSE	2.3	307.0	NW
09:00 PM - 10:00 PM	1.2	123.0	ESE	1.6	155.0	SSE	0.9	200.0	SSW	2.3	143.0	SE	2.0	128.0	SE	0.3	129.0	SE	0.5	351.0	N
10:00 PM - 11:00 PM	0.1	-	-	0.5	83.0	E	0.2	-	-	0.6	95.0	E	1.0	143.0	SE	2.8	131.0	SE	0.3	350.0	N
11:00 PM - 12:00 AM	0.2	-	-	0.0	-	-	1.7	73.0	ENE	0.2	-	-	0.6	139.0	SE	2.2	132.0	SE	0.2	-	-
12:00 AM - 01:00 AM	0.7	137.0	SE	0.7	59.0	ENE	1.1	139.0	SE	0.1	-	-	0.4	141.0	SE	0.5	181.0	S	0.1	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.8	124.0	SE	0.8	162.0	SSE	0.5	173.0	S	0.6	209.0	SSW	0.3	160.0	SSE	0.4	312.0	NW
02:00 AM - 03:00 AM	0.2	-	-	0.8	133.0	SE	1.1	136.0	SE	0.0	-	-	0.7	183.0	S	1.7	160.0	SSE	0.4	325.0	NW
03:00 AM - 04:00 AM	0.4	134.0	SE	0.7	137.0	SE	0.6	130.0	SE	0.8	139.0	SE	1.3	302.0	WNW	0.9	158.0	SSE	0.5	220.0	SW
04:00 AM - 05:00 AM	0.9	132.0	SE	0.7	163.0	SSE	1.2	138.0	SE	1.5	68.0	ENE	1.4	192.0	SSW	1.3	203.0	SSW	0.4	165.0	SSE
05:00 AM - 06:00 AM	1.2	159.0	SSE	1.3	152.0	SSE	1.3	203.0	SSW	0.7	294.0	WNW	1.7	142.0	SE	1.3	157.0	SSE	1.6	185.0	S
06:00 AM - 07:00 AM	2.5	155.0	SSE	2.0	128.0	SE	3.0	203.0	SSW	1.8	196.0	SSW	1.8	69.0	ENE	1.5	156.0	SSE	2.5	332.0	NNW
07:00 AM - 08:00 AM	2.9	129.0	SE	3.0	78.0	ENE	3.4	203.0	SSW	1.2	201.0	SSW	0.9	38.0	NE	0.2	-	-	1.6	90.0	E

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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.

Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : สัญญาเลขที่ 4600001511

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID** : 2224219

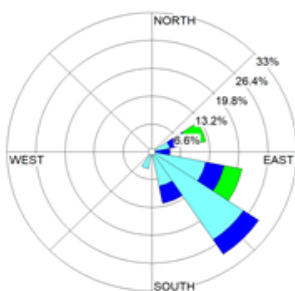
Date Received : May 31, 2022

Date Reported : Jun 08, 2022

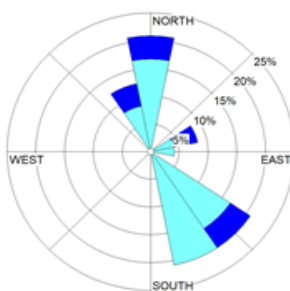
Report Number : 2240614-1

Page 2 of 2

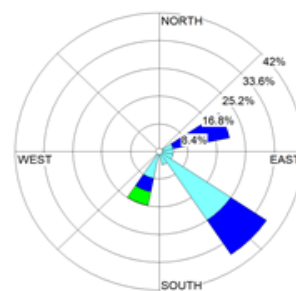
### Wind Rose



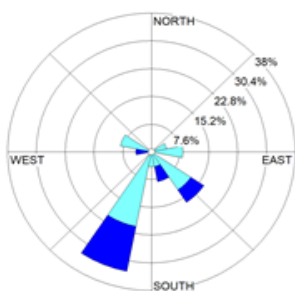
Date : May 23-24, 2022



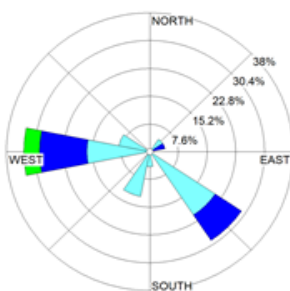
Date : May 24-25, 2022



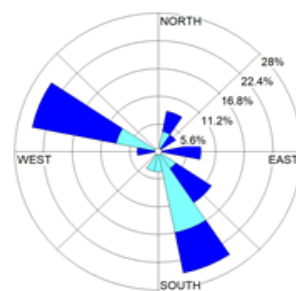
Date : May 25-26, 2022



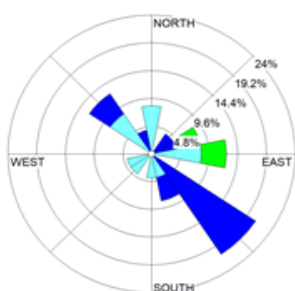
Date : May 26-27, 2022



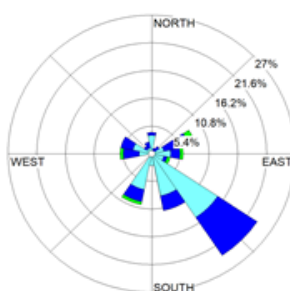
Date : May 27-28, 2022



Date : May 28-29, 2022



Date : May 29-30, 2022



Date : May 23-30, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	3.57
1.7-3.3	30.95
0.3-1.7	55.36
Calms	10.12

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.

Approved by

Sarayuth Jitranont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : สัญญาเลขที่ 4600001511

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID** : 2224219

Date Received : May 31, 2022

Date Reported : Jun 08, 2022

Report Number : 2240614-1

Page 1 of 2

**Sample Number** : 2224219-22 to 28  
**Parameter** : Wind Speed / Wind Direction  
**Location** : โรงเรียนบ้านโนนสะอาด (GPS 0788786, 1552698)  
**Sampling Date** : May 23 - May 30, 2022  
**Sampling by** : Nontachai Uppathamp

Time	May 23 - May 24, 2022			May 24 - May 25, 2022			May 25 - May 26, 2022			May 26 - May 27, 2022			May 27 - May 28, 2022			May 28 - May 29, 2022			May 29 - May 30, 2022		
	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	0.5	286.0	WNW	4.9	200.0	SSW	0.4	188.0	S	2.0	212.0	SSW	1.7	203.0	SSW	3.0	199.0	SSW	0.9	191.0	S
12:00 PM - 01:00 PM	1.2	207.0	SSW	1.7	170.0	S	2.0	209.0	SSW	0.0	-	-	0.8	227.0	SW	3.7	227.0	SW	0.0	-	-
01:00 PM - 02:00 PM	1.2	9.0	N	1.4	188.0	S	4.8	236.0	SW	1.8	186.0	S	2.0	267.0	W	4.5	232.0	SW	1.0	187.0	S
02:00 PM - 03:00 PM	3.4	198.0	SSW	2.1	259.0	W	1.7	263.0	W	1.2	244.0	WSW	0.3	169.0	S	1.1	205.0	SSW	0.7	228.0	SW
03:00 PM - 04:00 PM	2.7	235.0	SW	1.6	186.0	S	2.3	180.0	S	2.3	194.0	SSW	0.7	261.0	W	3.4	236.0	SW	1.3	240.0	WSW
04:00 PM - 05:00 PM	1.8	223.0	SW	0.6	166.0	SSE	2.4	172.0	S	1.4	232.0	SW	1.2	186.0	S	1.6	287.0	WNW	0.8	192.0	SSW
05:00 PM - 06:00 PM	1.1	222.0	SW	2.4	192.0	SSW	0.1	-	-	0.3	255.0	WSW	2.0	246.0	WSW	1.8	194.0	SSW	0.0	-	-
06:00 PM - 07:00 PM	2.9	230.0	SW	0.4	244.0	WSW	0.1	-	-	0.0	-	-	0.0	-	-	0.6	176.0	S	0.0	-	-
07:00 PM - 08:00 PM	0.9	346.0	NNW	0.4	245.0	WSW	0.0	-	-	0.0	-	-	1.2	23.0	NNE	0.0	-	-	1.1	310.0	NW
08:00 PM - 09:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.4	221.0	SW
09:00 PM - 10:00 PM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
10:00 PM - 11:00 PM	0.2	-	-	0.0	-	-	0.0	-	-	1.9	243.0	WSW	0.0	-	-	0.0	-	-	0.0	-	-
11:00 PM - 12:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
01:00 AM - 02:00 AM	0.5	175.0	S	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
02:00 AM - 03:00 AM	0.3	174.0	S	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
03:00 AM - 04:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-
04:00 AM - 05:00 AM	0.4	175.0	S	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.2	86.0	E
05:00 AM - 06:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	1.7	206.0	SSW
06:00 AM - 07:00 AM	0.2	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	0.9	250.0	WSW
07:00 AM - 08:00 AM	1.3	243.0	WSW	0.6	148.0	SSE	0.0	-	-	0.0	-	-	0.0	-	-	0.0	-	-	2.7	199.0	SSW
08:00 AM - 09:00 AM	1.5	221.0	SW	0.2	-	-	1.2	233.0	SW	0.0	-	-	1.0	164.0	SSE	0.4	351.0	N	1.6	225.0	SW
09:00 AM - 10:00 AM	0.5	246.0	WSW	1.6	185.0	S	2.0	229.0	SW	0.5	173.0	S	1.7	212.0	SSW	0.5	268.0	W	1.5	183.0	S
10:00 AM - 11:00 AM	2.0	197.0	SSW	2.6	202.0	SSW	2.3	245.0	WSW	1.2	191.0	S	2.6	223.0	SW	3.1	215.0	SW	0.9	247.0	WSW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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.

Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : สัญญาเลขที่ 4600001511

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID** : 2224219

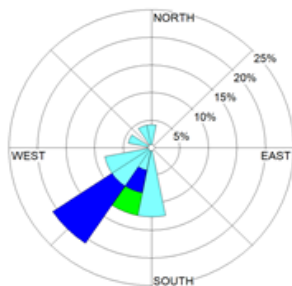
Date Received : May 31, 2022

Date Reported : Jun 08, 2022

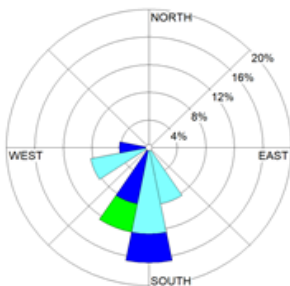
Report Number : 2240614-1

Page 2 of 2

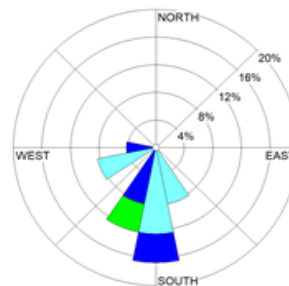
### Wind Rose



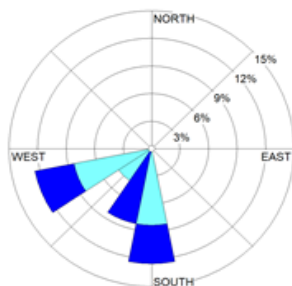
Date : May 23-24, 2022



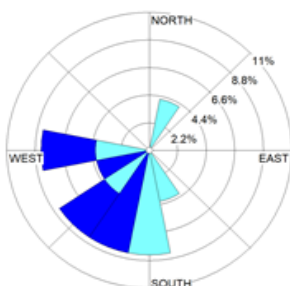
Date : May 24-25, 2022



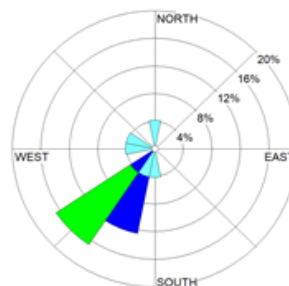
Date : May 25-26, 2022



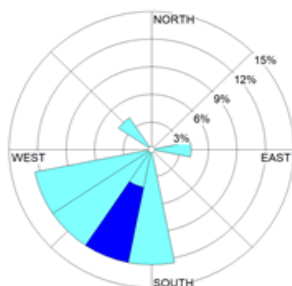
Date : May 26-27, 2022



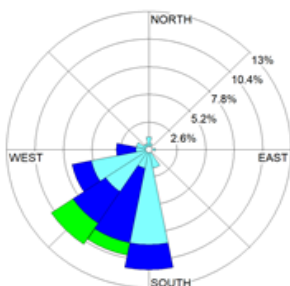
Date : May 27-28, 2022



Date : May 28-29, 2022



Date : May 29-30, 2022



Date : May 23-30, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	3.57
1.7-3.3	16.67
0.3-1.7	28.57
Calms	51.19

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.

Approved by

Sarayuth Jitranont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : สัญญาเลขที่ 4600001511

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID** : 2224219

Date Received : May 31, 2022

Date Reported : Jun 08, 2022

Report Number : 2240614-1

Page 1 of 2

**Sample Number** : 2224219-29 to 35  
**Parameter** : Wind Speed / Wind Direction  
**Location** : พื้นที่โครงการ (GPS 47P 0792979, 1553115)  
**Sampling Date** : May 23 - May 30, 2022  
**Sampling by** : Nontachai Uppathamp

Time	May 23 - May 24, 2022			May 24 - May 25, 2022			May 25 - May 26, 2022			May 26 - May 27, 2022			May 27 - May 28, 2022			May 28 - May 29, 2022			May 29 - May 30, 2022		
	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)	
08:00 AM - 09:00 AM	1.2	5.0	N	2.6	46.0	NE	2.0	239.0	WSW	0.7	258.0	WSW	1.2	43.0	NE	1.2	287.0	WNW	1.2	205.0	SSW
09:00 AM - 10:00 AM	2.1	23.0	NNE	2.8	107.0	ESE	2.4	236.0	SW	1.0	256.0	WSW	0.7	257.0	WSW	0.4	250.0	WSW	2.6	127.0	SE
10:00 AM - 11:00 AM	2.6	52.0	NE	3.0	11.0	N	2.6	258.0	WSW	1.6	248.0	WSW	2.8	261.0	W	1.7	256.0	WSW	1.8	56.0	NE
11:00 AM - 12:00 PM	1.4	306.0	NW	3.4	195.0	SSW	2.8	264.0	W	2.1	241.0	WSW	2.2	230.0	SW	1.5	245.0	WSW	0.6	197.0	SSW
12:00 PM - 01:00 PM	2.2	307.0	NW	2.6	226.0	SW	3.2	267.0	W	0.9	238.0	WSW	1.6	216.0	SW	2.1	260.0	W	1.8	29.0	NNE
01:00 PM - 02:00 PM	2.6	65.0	ENE	1.0	259.0	W	2.0	255.0	WSW	1.3	261.0	W	2.2	262.0	W	2.7	244.0	WSW	2.8	117.0	ESE
02:00 PM - 03:00 PM	3.2	287.0	WNW	1.6	238.0	WSW	1.0	269.0	W	1.0	260.0	W	0.9	240.0	WSW	0.4	232.0	SW	0.9	359.0	N
03:00 PM - 04:00 PM	3.0	69.0	ENE	0.8	235.0	SW	1.4	211.0	SSW	1.6	294.0	WNW	2.8	256.0	WSW	1.3	266.0	W	2.2	54.0	NE
04:00 PM - 05:00 PM	2.2	229.0	SW	1.0	256.0	WSW	1.2	261.0	W	0.2	-	-	0.9	230.0	SW	1.8	175.0	S	1.7	54.0	NE
05:00 PM - 06:00 PM	1.4	240.0	WSW	1.4	286.0	WNW	1.0	282.0	WNW	0.4	265.0	W	0.0	-	-	0.8	276.0	W	2.2	54.0	NE
06:00 PM - 07:00 PM	1.6	242.0	WSW	1.2	92.0	E	1.4	260.0	W	0.4	261.0	W	1.7	281.0	W	0.7	344.0	NNW	0.6	54.0	NE
07:00 PM - 08:00 PM	1.6	247.0	WSW	1.0	109.0	ESE	0.6	253.0	WSW	0.2	-	-	1.9	271.0	W	0.9	258.0	WSW	0.7	54.0	NE
08:00 PM - 09:00 PM	0.8	261.0	W	1.2	101.0	E	1.0	233.0	SW	0.1	-	-	0.6	262.0	W	0.3	271.0	W	2.2	54.0	NE
09:00 PM - 10:00 PM	0.3	270.0	W	0.8	74.0	ENE	0.4	266.0	W	0.2	-	-	1.2	95.0	E	2.5	252.0	WSW	1.4	54.0	NE
10:00 PM - 11:00 PM	0.2	-	-	0.4	98.0	E	0.2	-	-	0.1	-	-	2.0	73.0	ENE	1.9	252.0	WSW	0.8	292.0	WNW
11:00 PM - 12:00 AM	0.4	250.0	WSW	0.2	-	-	0.6	249.0	WSW	0.3	245.0	WSW	1.1	326.0	NW	1.5	138.0	SE	2.4	316.0	NW
12:00 AM - 01:00 AM	0.5	251.0	WSW	0.4	238.0	WSW	0.2	-	-	0.2	-	-	1.4	317.0	NW	0.6	83.0	E	1.1	56.0	NE
01:00 AM - 02:00 AM	1.0	261.0	W	0.1	-	-	1.0	136.0	SE	0.3	25.0	NNE	1.9	47.0	NE	1.8	39.0	NE	1.1	58.0	ENE
02:00 AM - 03:00 AM	1.2	245.0	WSW	1.2	239.0	WSW	2.0	262.0	W	0.2	-	-	0.3	23.0	NNE	0.3	38.0	NE	1.0	71.0	ENE
03:00 AM - 04:00 AM	2.0	242.0	WSW	2.8	239.0	WSW	1.0	264.0	W	0.4	24.0	NNE	0.8	23.0	NNE	1.0	38.0	NE	1.2	231.0	SW
04:00 AM - 05:00 AM	3.2	108.0	ESE	3.4	240.0	WSW	3.2	262.0	W	0.6	23.0	NNE	1.6	23.0	NNE	1.9	36.0	NE	0.9	297.0	WNW
05:00 AM - 06:00 AM	2.2	262.0	W	2.6	238.0	WSW	2.8	243.0	WSW	1.0	258.0	WSW	2.5	24.0	NNE	1.9	36.0	NE	1.7	114.0	ESE
06:00 AM - 07:00 AM	2.4	262.0	W	1.8	239.0	WSW	3.4	249.0	WSW	0.2	-	-	0.2	-	-	1.2	36.0	NE	2.9	113.0	ESE
07:00 AM - 08:00 AM	3.2	76.0	ENE	2.8	238.0	WSW	2.8	262.0	W	1.3	261.0	W	1.2	286.0	WNW	2.5	81.0	E	2.0	166.0	SSE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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.

Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : สัญญาเลขที่ 4600001511

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID** : 2224219

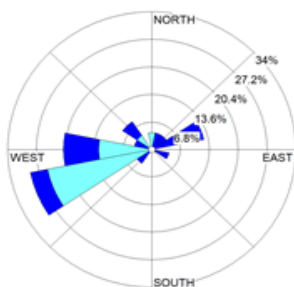
Date Received : May 31, 2022

Date Reported : Jun 08, 2022

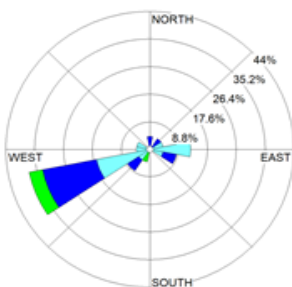
Report Number : 2240614-1

Page 2 of 2

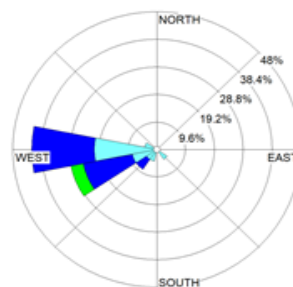
### Wind Rose



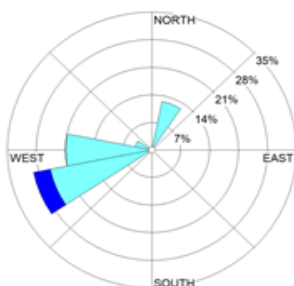
Date : May 23-24, 2022



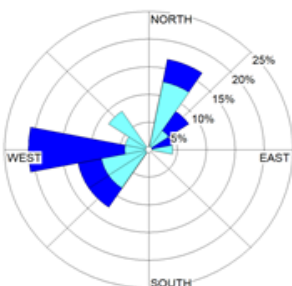
Date : May 24-25, 2022



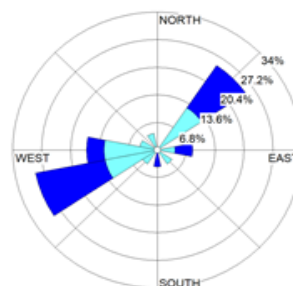
Date : May 25-26, 2022



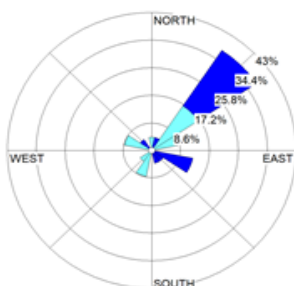
Date : May 26-27, 2022



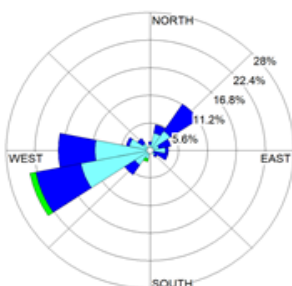
Date : May 27-28, 2022



Date : May 28-29, 2022



Date : May 29-30, 2022



Date : May 23-30, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	1.78
1.7-3.3	36.91
0.3-1.7	52.38
Calms	8.93

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.

Approved by

Sarayuth Jitranont  
Assistant General Manager





## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O** : สัญญาเลขที่ 4600001511

**Project Name** : Monitoring EIA

**Project Location** : GNC

**Lot ID** : 2224219

Date Received : May 31, 2022

Date Reported : Jun 08, 2022

Report Number : 2240614-1

Page 1 of 2

**Sample Number** : 2224219-36 to 42  
**Parameter** : Wind Speed / Wind Direction  
**Location** : ชุมชนบ้านเขานางจีน (GPS 47P 0790575, 1555766)  
**Sampling Date** : May 23 - May 30, 2022  
**Sampling by** : Nontachai Uppathamp

Time	May 23 - May 24, 2022			May 24 - May 25, 2022			May 25 - May 26, 2022			May 26 - May 27, 2022			May 27 - May 28, 2022			May 28 - May 29, 2022			May 29 - May 30, 2022		
	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	2.0	266.0	W	2.2	164.0	SSE	3.0	310.0	NW	0.9	45.0	NE	0.6	174.0	S	0.5	16.0	NNE	0.5	103.0	ESE
11:00 AM - 12:00 PM	1.3	243.0	WSW	3.2	28.0	NNE	0.3	10.0	N	2.3	81.0	E	0.5	132.0	SE	0.4	139.0	SE	1.1	179.0	S
12:00 PM - 01:00 PM	2.5	39.0	NE	1.2	65.0	ENE	2.0	237.0	WSW	1.5	164.0	SSE	0.7	112.0	ESE	0.7	344.0	NNW	1.1	264.0	W
01:00 PM - 02:00 PM	2.5	42.0	NE	1.0	67.0	ENE	0.8	158.0	SSE	2.3	284.0	WNW	0.9	142.0	SE	0.5	324.0	NW	0.5	288.0	WNW
02:00 PM - 03:00 PM	3.1	43.0	NE	1.2	62.0	ENE	0.3	222.0	SW	2.6	278.0	W	0.8	149.0	SSE	1.5	328.0	NNW	1.6	261.0	W
03:00 PM - 04:00 PM	1.9	43.0	NE	0.3	60.0	ENE	1.4	134.0	SE	0.7	275.0	W	1.5	70.0	ENE	1.1	335.0	NNW	1.9	304.0	NW
04:00 PM - 05:00 PM	2.9	44.0	NE	1.6	61.0	ENE	1.0	112.0	ESE	1.5	284.0	WNW	2.1	70.0	ENE	1.2	342.0	NNW	1.1	46.0	NE
05:00 PM - 06:00 PM	1.8	41.0	NE	1.1	60.0	ENE	1.0	148.0	SSE	1.1	277.0	W	1.2	68.0	ENE	1.5	340.0	NNW	2.4	46.0	NE
06:00 PM - 07:00 PM	2.1	36.0	NE	1.1	61.0	ENE	1.7	138.0	SE	1.3	339.0	NNW	1.1	69.0	ENE	1.1	341.0	NNW	1.3	319.0	NW
07:00 PM - 08:00 PM	1.1	36.0	NE	0.8	62.0	ENE	1.9	117.0	ESE	2.5	318.0	NW	0.5	301.0	WNW	1.3	348.0	NNW	1.0	343.0	NNW
08:00 PM - 09:00 PM	1.5	291.0	WNW	0.8	61.0	ENE	0.8	102.0	ESE	0.9	345.0	NNW	0.6	302.0	WNW	2.5	268.0	W	0.9	10.0	N
09:00 PM - 10:00 PM	0.5	291.0	WNW	0.9	63.0	ENE	0.5	121.0	ESE	0.7	29.0	NNE	0.8	0.0	N	0.5	256.0	WSW	1.4	62.0	ENE
10:00 PM - 11:00 PM	0.8	291.0	WNW	0.5	109.0	ESE	1.0	144.0	SE	0.6	313.0	NW	0.5	55.0	NE	1.5	216.0	SW	1.9	276.0	W
11:00 PM - 12:00 AM	0.6	293.0	WNW	0.7	105.0	ESE	1.2	127.0	SE	1.3	100.0	E	0.8	341.0	NNW	0.7	45.0	NE	1.3	161.0	SSE
12:00 AM - 01:00 AM	0.4	290.0	WNW	0.4	257.0	WSW	0.5	322.0	NW	0.8	290.0	WNW	0.8	5.0	N	0.9	49.0	NE	1.0	310.0	NW
01:00 AM - 02:00 AM	0.7	290.0	WNW	0.5	258.0	WSW	0.6	359.0	N	0.5	293.0	WNW	0.9	347.0	NNW	0.5	50.0	NE	0.6	286.0	WNW
02:00 AM - 03:00 AM	0.6	291.0	WNW	0.6	259.0	W	0.8	274.0	W	0.6	308.0	NW	0.9	359.0	N	0.4	42.0	NE	0.9	293.0	WNW
03:00 AM - 04:00 AM	0.8	265.0	W	0.7	258.0	WSW	0.7	39.0	NE	1.0	310.0	NW	0.7	228.0	SW	0.8	34.0	NE	1.1	111.0	ESE
04:00 AM - 05:00 AM	0.5	105.0	ESE	0.4	35.0	NE	1.1	275.0	W	0.9	316.0	NW	0.9	266.0	W	0.7	36.0	NE	0.6	8.0	N
05:00 AM - 06:00 AM	0.9	105.0	ESE	0.5	25.0	NNE	1.5	318.0	NW	1.4	185.0	S	1.2	290.0	WNW	1.3	30.0	NNE	0.5	269.0	W
06:00 AM - 07:00 AM	1.5	32.0	NNE	1.9	29.0	NNE	1.3	317.0	NW	0.5	269.0	W	0.5	291.0	WNW	1.1	42.0	NE	0.7	94.0	E
07:00 AM - 08:00 AM	1.4	279.0	W	1.4	17.0	NNE	0.8	0.0	N	0.6	5.0	N	0.6	330.0	NNW	0.6	82.0	E	0.5	3.0	N
08:00 AM - 09:00 AM	3.5	134.0	SE	0.8	183.0	S	0.6	111.0	ESE	1.1	102.0	ESE	0.4	268.0	W	0.6	62.0	ENE	0.9	305.0	NW
09:00 AM - 10:00 AM	2.1	316.0	NW	1.7	138.0	SE	0.5	164.0	SSE	1.3	138.0	SE	0.8	199.0	SSW	1.0	25.0	NNE	1.3	301.0	WNW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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.

Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.

418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110

**P/O :** สัญญาเลขที่ 4600001511

**Project Name :** Monitoring EIA

**Project Location :** GNC

**Lot ID :** 2224219

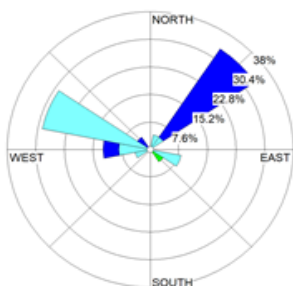
Date Received : May 31, 2022

Date Reported : Jun 08, 2022

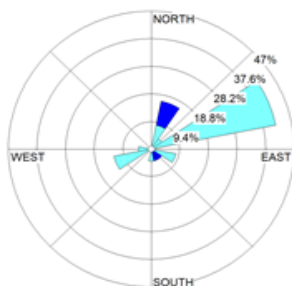
Report Number : 2240614-1

Page 2 of 2

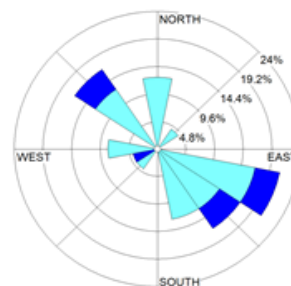
### Wind Rose



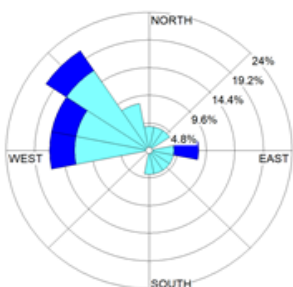
Date : May 23-24, 2022



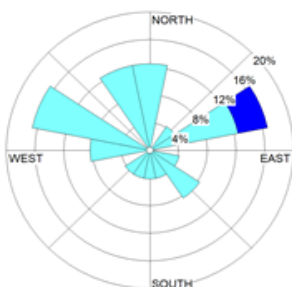
Date : May 24-25, 2022



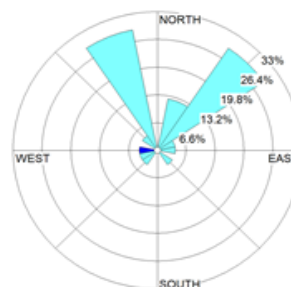
Date : May 25-26, 2022



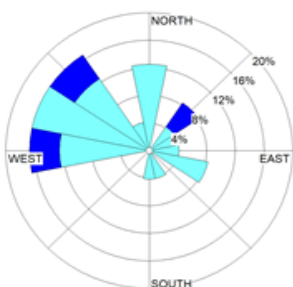
Date : May 26-27, 2022



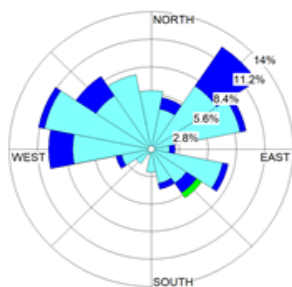
Date : May 27-28, 2022



Date : May 28-29, 2022



Date : May 29-30, 2022



Date : May 23-30, 2022

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	0.60
1.7-3.3	15.47
0.3-1.7	83.93
Calms	0.00

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.

Approved by

Sarayuth Jitranont  
Assistant General Manager



# ภาคผนวก ค-2

คุณภาพอากาศจากปล่องระบาย



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224223**

Date Received : May 25, 2022  
Date Reported : Jun 01, 2022  
Report Number: 2240626-1

Page 1 of 2

**Sample Number** 2224223-1  
**Sampled Date** May 23, 2022  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 11  
**Date Analysis Commenced** May 27, 2022  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	756	mmHg	Diameter	3.35	m	Oxygen	14.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.7	%
Type of Process	Combustion		Stack Temperature	114	°C	Gas Velocity	14.7	m/s
Type of Fuel	Natural Gas		Moisture	7.87	%	Flow Rate (Actual O2)	329255	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O <sub>2</sub>	Result at 14.7 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>										
Total Suspended Particulate	12:35 PM - 01:35 PM	mg/m3	-	0.5	<0.5	<0.5	28	60	US EPA, Method 5	Rayong

### Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf NC Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)  
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

*D. Johnson.*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-ค-9442

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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224223**

Date Received : May 25, 2022  
Date Reported : Jun 01, 2022  
Report Number: 2240626-1

Page 2 of 2

**Sample Number** 2224223-1  
**Sampled Date** May 23, 2022  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 11  
**Date Analysis Commenced** May 27, 2022  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	756	mmHg	Diameter	3.35	m	Oxygen	14.7	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.7	%
Type of Process	Combustion		Stack Temperature	114	°C	Gas Velocity	14.7	m/s
Type of Fuel	Natural Gas		Moisture	7.87	%	Flow Rate (Actual O2)	329255	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>									
Total Suspended Particulate *	12:35 PM - 01:35 PM	g/s	-	-	<0.046	1.7	-	Calculated	Rayong

### Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf NC Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Sampled By :** Tinnakorn Kulchart

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)  
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-ค-9442

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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O** : สัญญาเลขที่ 4600001511  
**Project Name** : Monitoring EIA  
**Project Location** : GNC

**Lot ID: 2224221**  
Date Received : May 25, 2022  
Date Reported : Jun 06, 2022  
Report Number : 2240619-1

Page 1 of 1

**Sample Number** : 2224221-1  
**Sample Description** : Emission from Stationary Source  
**Location** : ปล่อง HRSG 11  
**Measurement Date** : May 23, 2022

### Stack Description

Ambient Temperature	32 °C	Diameter	3.35 m	Oxygen	14.74 %
Ambient Pressure	756 mmHg	Shape	Circle	Carbon dioxide	3.68 %
Type of Process	Combustion	Stack Temperature	114 °C	Gas Velocity	14.71 m/s
Type of Fuel	Natural Gas	Moisture	7.83 %	Flow Rate	329753 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O <sub>2</sub>	at 7% O <sub>2</sub>	at Actual O <sub>2</sub>	at 7% O <sub>2</sub>
1	12:35 PM - 12:55 PM	14.82	3.66	13.77	31.50	0.66	1.52
2	12:56 PM - 01:16 PM	14.74	3.70	14.35	32.37	0.63	1.43
3	01:17 PM - 01:37 PM	14.67	3.69	14.75	32.89	0.64	1.44
Average (ppm)		14.74	3.68	14.29	32.25	0.65	1.46
Guideline <sup>1/</sup> (ppm)				-	60	-	6
Guideline <sup>2/</sup> (ppm)				-	120	-	20
Result (mg/m <sup>3</sup> )				26.88	60.68	1.69	3.83
Emission Rate at Actual O <sub>2</sub> (g/s)				2.4624		0.1551	
Guideline <sup>1/</sup> (g/s)				7.40		1.00	
Method				US EPA Method 7E		US EPA Method 6C	

**Sampled By** : Sathapron Thakarw

**Guideline** : <sup>1/</sup> Environmental Impact Assessment Report of Gulf NC Co., Ltd.

<sup>2/</sup> Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management**

Wichan Choonharat  
Manager

ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**

Sarayuth Jittrantont  
Assistant General Manager  
ทะเบียนเลขที่ ว-204-ค-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.



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224224**

Date Received : May 25, 2022  
Date Reported : Jun 01, 2022  
Report Number: 2240628-1

Page 1 of 2

**Sample Number** 2224224-1  
**Sampled Date** May 24, 2022  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 12  
**Date Analysis Commenced** May 27, 2022  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	756	mmHg	Diameter	3.35	m	Oxygen	14.6	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion		Stack Temperature	110	°C	Gas Velocity	14.3	m/s
Type of Fuel	Natural Gas		Moisture	7.66	%	Flow Rate (Actual O2)	323925	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O <sub>2</sub>	Result at 14.6 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>										
Total Suspended Particulate	11:35 AM - 12:35 PM	mg/m3	-	0.5	<0.5	<0.5	28	60	US EPA, Method 5	Rayong

### Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf NC Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)  
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

*D. Changchon.*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-ค-9442

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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



## Analysis / Test Report

TESTING  
No.0042

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224224**

Date Received : May 25, 2022  
Date Reported : Jun 01, 2022  
Report Number: 2240628-1

Page 2 of 2

**Sample Number** 2224224-1  
**Sampled Date** May 24, 2022  
**Sample Description** Emission from Stationary Source  
**Location** ปล่อง HRSG 12  
**Date Analysis Commenced** May 27, 2022  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	756	mmHg	Diameter	3.35	m	Oxygen	14.6	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.9	%
Type of Process	Combustion		Stack Temperature	110	°C	Gas Velocity	14.3	m/s
Type of Fuel	Natural Gas		Moisture	7.66	%	Flow Rate (Actual O2)	323925	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>									
Total Suspended Particulate *	11:35 AM - 12:35 PM	g/s	-	-	<0.045	1.7	-	Calculated	Rayong

### Guideline :

Guideline (1) Environmental Impact Assessment Report of Gulf NC Co., Ltd.  
Guideline (2) Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Sampled By :** Tinnakorn Kulchart

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)  
ทะเบียนเลขที่ ว-323-จ-9447

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager  
ทะเบียนเลขที่ ว-323-ค-9442

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.

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand | PHONE +66 0 3304 8555 | FAX +66 0 3304 8556  
ALS LABORATORY GROUP (THAILAND) CO., LTD. An ALS Limited Company



## Analysis / Test Report

**Client** : Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O** : สัญญาเลขที่ 4600001511  
**Project Name** : Monitoring EIA  
**Project Location** : GNC

**Lot ID: 2224222**  
Date Received : May 25, 2022  
Date Reported : Jun 06, 2022  
Report Number : 2240622-1

Page 1 of 1

**Sample Number** : 2224222-1  
**Sample Description** : Emission from Stationary Source  
**Location** : ปล่อง HRSG 12  
**Measurement Date** : May 24, 2022

### Stack Description

Ambient Temperature	32 °C	Diameter	3.35 m	Oxygen	14.61 %
Ambient Pressure	756 mmHg	Shape	Circle	Carbon dioxide	3.90 %
Type of Process	Combustion	Stack Temperature	109 °C	Gas Velocity	14.29 m/s
Type of Fuel	Natural Gas	Moisture	7.58 %	Flow Rate	324956 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O <sub>2</sub>	at 7% O <sub>2</sub>	at Actual O <sub>2</sub>	at 7% O <sub>2</sub>
1	11:35 AM - 11:55 AM	14.62	3.89	23.92	52.90	0.63	1.38
2	11:56 AM - 12:16 PM	14.61	3.91	23.47	51.83	0.62	1.38
3	12:17 PM - 12:37 PM	14.61	3.91	23.57	52.10	0.66	1.46
Average (ppm)		14.61	3.90	23.65	52.28	0.64	1.41
Guideline <sup>1/</sup> (ppm)				-	60	-	6
Guideline <sup>2/</sup> (ppm)				-	120	-	20
Result (mg/m <sup>3</sup> )				44.50	98.35	1.67	3.68
Emission Rate at Actual O <sub>2</sub> (g/s)				4.0168		0.1504	
Guideline <sup>1/</sup> (g/s)				7.40		1.00	
Method				US EPA Method 7E		US EPA Method 6C	

**Sampled By** : Sathapron Thakarw

**Guideline** : <sup>1/</sup> Environmental Impact Assessment Report of Gulf NC Co., Ltd.

<sup>2/</sup> Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

**Technical Management**

Wichan Choonharat  
Manager

ทะเบียนเลขที่ ว-204-ค-6113

**Approved by**

Sarayuth Jittranont  
Assistant General Manager  
ทะเบียนเลขที่ ว-204-ค-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.

# ภาคผนวก ค-3

---

ระดับเสียงทั่วไป





## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338627-1

Page 1 of 1

**Sample Number** 2224226-1  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณริมรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)  
**Measurement Date** May 23 - May 24, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472127

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	60.2	70.1	58.9
09:00 AM - 10:00 AM	59.3	64.9	58.0
10:00 AM - 11:00 AM	60.3	72.3	58.6
11:00 AM - 12:00 PM	61.3	65.9	60.2
12:00 PM - 01:00 PM	61.3	68.8	60.2
01:00 PM - 02:00 PM	59.8	65.2	58.4
02:00 PM - 03:00 PM	59.1	72.4	58.1
03:00 PM - 04:00 PM	58.8	63.5	58.1
04:00 PM - 05:00 PM	59.8	66.9	59.2
05:00 PM - 06:00 PM	59.5	64.8	58.8
06:00 PM - 07:00 PM	58.8	62.9	58.4
07:00 PM - 08:00 PM	58.7	62.6	58.3
08:00 PM - 09:00 PM	58.9	62.4	58.4
09:00 PM - 10:00 PM	65.0	80.9	55.7
10:00 PM - 11:00 PM	56.0	60.9	55.5
11:00 PM - 12:00 AM	55.9	60.5	55.4
12:00 AM - 01:00 AM	55.9	63.8	55.4
01:00 AM - 02:00 AM	56.2	63.8	55.7
02:00 AM - 03:00 AM	56.3	67.0	55.8
03:00 AM - 04:00 AM	57.0	78.2	56.2
04:00 AM - 05:00 AM	61.4	84.8	56.6
05:00 AM - 06:00 AM	64.8	79.2	59.2
06:00 AM - 07:00 AM	65.4	74.5	59.5
07:00 AM - 08:00 AM	66.6	74.7	60.2

Leq Average 24 hrs. (dB(A)) 61.0  
Lmax (dB(A)) 84.8  
L90 (dB(A)) 58.3  
Ldn (dB(A)) 67.1  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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.



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338628-1

Page 1 of 1

**Sample Number** 2224226-2  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณริมรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)  
**Measurement Date** May 24 - May 25, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472127

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	62.3	69.6	59.8
09:00 AM - 10:00 AM	60.6	71.6	59.2
10:00 AM - 11:00 AM	61.5	75.2	59.4
11:00 AM - 12:00 PM	60.4	66.3	59.1
12:00 PM - 01:00 PM	60.1	66.9	58.9
01:00 PM - 02:00 PM	60.1	68.0	59.0
02:00 PM - 03:00 PM	60.0	73.8	59.1
03:00 PM - 04:00 PM	59.6	66.7	59.1
04:00 PM - 05:00 PM	60.4	67.7	59.8
05:00 PM - 06:00 PM	59.4	60.9	59.0
06:00 PM - 07:00 PM	59.4	63.7	59.0
07:00 PM - 08:00 PM	59.5	63.2	59.2
08:00 PM - 09:00 PM	59.7	63.9	59.3
09:00 PM - 10:00 PM	65.6	80.3	56.9
10:00 PM - 11:00 PM	57.3	66.6	56.8
11:00 PM - 12:00 AM	57.3	63.1	56.8
12:00 AM - 01:00 AM	57.3	62.9	56.7
01:00 AM - 02:00 AM	57.0	62.6	56.6
02:00 AM - 03:00 AM	57.0	63.6	56.5
03:00 AM - 04:00 AM	57.1	62.4	56.7
04:00 AM - 05:00 AM	61.8	87.1	56.7
05:00 AM - 06:00 AM	60.3	73.1	58.8
06:00 AM - 07:00 AM	60.6	70.7	59.3
07:00 AM - 08:00 AM	60.6	73.2	58.7

Leq Average 24 hrs. (dB(A)) 60.3  
Lmax (dB(A)) 87.1  
L90 (dB(A)) 59.0  
Ldn (dB(A)) 65.6  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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.



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338629-1

Page 1 of 1

**Sample Number** 2224226-3  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณริมรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)  
**Measurement Date** May 25 - May 26, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472127

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	60.3	74.1	58.4
09:00 AM - 10:00 AM	60.9	76.5	59.4
10:00 AM - 11:00 AM	61.6	66.9	60.1
11:00 AM - 12:00 PM	61.5	67.9	60.1
12:00 PM - 01:00 PM	61.3	66.3	60.1
01:00 PM - 02:00 PM	61.5	65.8	60.2
02:00 PM - 03:00 PM	60.8	67.8	59.9
03:00 PM - 04:00 PM	59.9	73.3	59.2
04:00 PM - 05:00 PM	60.2	65.7	59.4
05:00 PM - 06:00 PM	59.6	66.1	59.2
06:00 PM - 07:00 PM	59.7	64.3	59.2
07:00 PM - 08:00 PM	61.2	73.0	58.5
08:00 PM - 09:00 PM	59.3	74.0	58.5
09:00 PM - 10:00 PM	65.6	81.3	57.2
10:00 PM - 11:00 PM	57.5	60.4	57.0
11:00 PM - 12:00 AM	57.7	60.6	57.2
12:00 AM - 01:00 AM	57.6	62.7	57.2
01:00 AM - 02:00 AM	57.4	62.1	56.9
02:00 AM - 03:00 AM	57.6	70.7	57.1
03:00 AM - 04:00 AM	57.8	64.1	57.2
04:00 AM - 05:00 AM	61.3	85.2	57.1
05:00 AM - 06:00 AM	59.9	66.8	58.8
06:00 AM - 07:00 AM	60.7	70.8	59.6
07:00 AM - 08:00 AM	60.9	67.7	59.7

Leq Average 24 hrs. (dB(A)) 60.5  
Lmax (dB(A)) 85.2  
L90 (dB(A)) 58.8  
Ldn (dB(A)) 65.7  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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.



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338630-1

Page 1 of 1

**Sample Number** 2224226-4  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณริมรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)  
**Measurement Date** May 26 - May 27, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472127

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	60.9	66.4	59.7
09:00 AM - 10:00 AM	60.9	70.5	59.7
10:00 AM - 11:00 AM	60.5	71.2	59.4
11:00 AM - 12:00 PM	60.4	72.9	59.8
12:00 PM - 01:00 PM	60.2	65.9	59.6
01:00 PM - 02:00 PM	60.5	71.7	59.3
02:00 PM - 03:00 PM	60.2	70.8	59.0
03:00 PM - 04:00 PM	59.8	67.4	59.1
04:00 PM - 05:00 PM	59.9	72.3	58.8
05:00 PM - 06:00 PM	59.4	74.4	59.0
06:00 PM - 07:00 PM	59.4	62.8	59.0
07:00 PM - 08:00 PM	59.4	62.8	59.1
08:00 PM - 09:00 PM	59.4	63.8	59.0
09:00 PM - 10:00 PM	65.5	80.1	57.2
10:00 PM - 11:00 PM	57.6	62.9	57.0
11:00 PM - 12:00 AM	57.7	62.5	57.1
12:00 AM - 01:00 AM	57.5	62.3	57.0
01:00 AM - 02:00 AM	57.6	64.2	57.1
02:00 AM - 03:00 AM	57.4	61.8	56.8
03:00 AM - 04:00 AM	57.8	69.7	57.1
04:00 AM - 05:00 AM	62.4	86.5	57.4
05:00 AM - 06:00 AM	60.0	65.2	58.6
06:00 AM - 07:00 AM	60.3	66.3	59.0
07:00 AM - 08:00 AM	60.7	73.3	59.1

Leq Average 24 hrs. (dB(A)) 60.2  
Lmax (dB(A)) 86.5  
L90 (dB(A)) 59.0  
Ldn (dB(A)) 65.8  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

Saranya C.

Saranya Chalermthamrong  
Scientist (4)

Approved by

Supot S.

Supot Salamteh  
Section Head

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.



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338631-1

Page 1 of 1

**Sample Number** 2224226-5  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณริมรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)  
**Measurement Date** May 27 - May 28, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472127

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	60.8	71.3	58.9
09:00 AM - 10:00 AM	60.4	68.9	58.6
10:00 AM - 11:00 AM	60.4	65.5	58.7
11:00 AM - 12:00 PM	61.1	69.7	59.5
12:00 PM - 01:00 PM	61.4	65.4	59.9
01:00 PM - 02:00 PM	60.9	69.8	59.4
02:00 PM - 03:00 PM	60.6	73.8	58.8
03:00 PM - 04:00 PM	59.6	65.1	58.2
04:00 PM - 05:00 PM	59.0	64.6	58.3
05:00 PM - 06:00 PM	60.0	66.7	59.4
06:00 PM - 07:00 PM	59.5	65.9	58.9
07:00 PM - 08:00 PM	59.5	65.1	59.2
08:00 PM - 09:00 PM	59.5	64.5	59.2
09:00 PM - 10:00 PM	65.1	81.1	59.1
10:00 PM - 11:00 PM	60.4	77.0	56.2
11:00 PM - 12:00 AM	56.7	62.9	56.1
12:00 AM - 01:00 AM	56.6	64.0	56.1
01:00 AM - 02:00 AM	56.6	63.8	56.1
02:00 AM - 03:00 AM	56.5	62.9	56.0
03:00 AM - 04:00 AM	56.5	62.1	56.0
04:00 AM - 05:00 AM	56.8	66.8	56.1
05:00 AM - 06:00 AM	62.2	88.7	56.5
06:00 AM - 07:00 AM	60.4	69.9	59.2
07:00 AM - 08:00 AM	61.0	72.8	60.0

Leq Average 24 hrs. (dB(A)) 60.2  
Lmax (dB(A)) 88.7  
L90 (dB(A)) 58.7  
Ldn (dB(A)) 65.5  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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.



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338632-1

Page 1 of 1

**Sample Number** 2224226-6  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณริมรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)  
**Measurement Date** May 28 - May 29, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472127

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	61.4	68.1	60.1
09:00 AM - 10:00 AM	61.7	65.5	60.3
10:00 AM - 11:00 AM	61.7	71.1	60.3
11:00 AM - 12:00 PM	61.4	64.7	60.0
12:00 PM - 01:00 PM	61.1	74.7	59.7
01:00 PM - 02:00 PM	61.1	65.3	59.1
02:00 PM - 03:00 PM	61.9	65.9	60.9
03:00 PM - 04:00 PM	60.4	67.9	59.2
04:00 PM - 05:00 PM	60.1	67.6	59.4
05:00 PM - 06:00 PM	59.5	64.5	58.2
06:00 PM - 07:00 PM	59.1	66.7	58.5
07:00 PM - 08:00 PM	59.3	64.0	58.8
08:00 PM - 09:00 PM	59.4	63.6	59.0
09:00 PM - 10:00 PM	65.5	80.5	59.1
10:00 PM - 11:00 PM	59.9	76.8	55.2
11:00 PM - 12:00 AM	55.2	56.6	54.8
12:00 AM - 01:00 AM	55.4	59.2	54.9
01:00 AM - 02:00 AM	55.3	61.3	54.9
02:00 AM - 03:00 AM	55.3	64.5	54.9
03:00 AM - 04:00 AM	55.6	65.4	55.1
04:00 AM - 05:00 AM	55.8	73.2	55.0
05:00 AM - 06:00 AM	55.5	66.9	54.9
06:00 AM - 07:00 AM	55.9	71.5	55.0
07:00 AM - 08:00 AM	55.6	69.0	54.7

Leq Average 24 hrs. (dB(A)) 59.8  
Lmax (dB(A)) 80.5  
L90 (dB(A)) 58.5  
Ldn (dB(A)) 63.8  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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.



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338633-1

Page 1 of 1

**Sample Number** 2224226-7  
**Parameter** Noise (Leq 24 hrs.)  
**Location** พื้นที่โครงการฯ (บริเวณริมรั้วโครงการ ด้านทิศตะวันตก) (GPS 47P 0792793, 1552948)  
**Measurement Date** May 29 - May 30, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472127

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:00 AM - 09:00 AM	56.1	67.0	54.8
09:00 AM - 10:00 AM	56.2	77.4	54.7
10:00 AM - 11:00 AM	56.2	66.1	54.6
11:00 AM - 12:00 PM	56.5	67.9	54.9
12:00 PM - 01:00 PM	55.9	62.6	54.4
01:00 PM - 02:00 PM	55.9	72.7	54.4
02:00 PM - 03:00 PM	55.9	61.5	54.5
03:00 PM - 04:00 PM	63.7	90.2	56.1
04:00 PM - 05:00 PM	60.1	74.2	59.2
05:00 PM - 06:00 PM	59.7	64.6	59.2
06:00 PM - 07:00 PM	59.4	64.5	58.9
07:00 PM - 08:00 PM	59.2	60.9	58.8
08:00 PM - 09:00 PM	58.9	67.4	58.4
09:00 PM - 10:00 PM	65.8	82.2	57.7
10:00 PM - 11:00 PM	56.9	64.5	56.4
11:00 PM - 12:00 AM	56.7	64.0	56.2
12:00 AM - 01:00 AM	57.2	64.0	56.6
01:00 AM - 02:00 AM	56.4	58.4	56.0
02:00 AM - 03:00 AM	56.4	61.3	56.0
03:00 AM - 04:00 AM	56.5	62.9	56.0
04:00 AM - 05:00 AM	56.9	69.1	56.3
05:00 AM - 06:00 AM	62.7	88.8	56.8
06:00 AM - 07:00 AM	59.7	65.1	58.5
07:00 AM - 08:00 AM	60.1	70.2	58.8

Leq Average 24 hrs. (dB(A)) 59.3  
Lmax (dB(A)) 90.2  
L90 (dB(A)) 56.2  
Ldn (dB(A)) 65.0  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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.



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338634-1

Page 1 of 1

**Sample Number** 2224226-8  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองอนามัย (GPS 47P 0792111, 1553109)  
**Measurement Date** May 23 - May 24, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	59.6	100.2	41.3
10:00 AM - 11:00 AM	56.0	86.7	41.2
11:00 AM - 12:00 PM	51.0	74.2	40.2
12:00 PM - 01:00 PM	54.0	75.6	41.6
01:00 PM - 02:00 PM	51.6	74.9	42.5
02:00 PM - 03:00 PM	53.9	79.6	43.0
03:00 PM - 04:00 PM	53.7	83.3	42.9
04:00 PM - 05:00 PM	55.7	79.3	44.0
05:00 PM - 06:00 PM	54.6	76.7	44.3
06:00 PM - 07:00 PM	54.4	75.2	48.6
07:00 PM - 08:00 PM	52.4	73.6	47.3
08:00 PM - 09:00 PM	50.0	65.1	46.5
09:00 PM - 10:00 PM	48.9	68.6	45.1
10:00 PM - 11:00 PM	50.7	75.9	45.1
11:00 PM - 12:00 AM	46.8	65.0	43.7
12:00 AM - 01:00 AM	44.4	62.8	41.2
01:00 AM - 02:00 AM	43.9	63.6	41.1
02:00 AM - 03:00 AM	44.1	63.0	40.9
03:00 AM - 04:00 AM	45.6	58.1	43.0
04:00 AM - 05:00 AM	50.4	76.2	43.7
05:00 AM - 06:00 AM	53.5	77.9	41.1
06:00 AM - 07:00 AM	49.9	72.6	39.2
07:00 AM - 08:00 AM	54.4	92.6	39.7
08:00 AM - 09:00 AM	52.1	75.5	41.4

Leq Average 24 hrs. (dB(A)) 53.0  
Lmax (dB(A)) 100.2  
L90 (dB(A)) 42.5  
Ldn (dB(A)) 56.7  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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.





## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338635-1

Page 1 of 1

**Sample Number** 2224226-9  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองอนามัย (GPS 47P 0792111, 1553109)  
**Measurement Date** May 24 - May 25, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	52.1	80.6	40.8
10:00 AM - 11:00 AM	55.3	86.6	39.8
11:00 AM - 12:00 PM	59.5	76.1	40.8
12:00 PM - 01:00 PM	55.1	85.4	41.4
01:00 PM - 02:00 PM	51.6	74.8	43.3
02:00 PM - 03:00 PM	52.3	76.8	42.9
03:00 PM - 04:00 PM	55.8	79.0	43.4
04:00 PM - 05:00 PM	56.6	84.7	43.9
05:00 PM - 06:00 PM	53.3	71.9	43.2
06:00 PM - 07:00 PM	53.2	75.7	43.4
07:00 PM - 08:00 PM	53.9	71.6	51.4
08:00 PM - 09:00 PM	51.5	68.3	49.5
09:00 PM - 10:00 PM	50.8	71.6	47.9
10:00 PM - 11:00 PM	49.2	61.7	48.2
11:00 PM - 12:00 AM	49.4	65.3	48.2
12:00 AM - 01:00 AM	47.5	71.1	42.1
01:00 AM - 02:00 AM	44.9	61.8	42.5
02:00 AM - 03:00 AM	43.7	63.7	40.9
03:00 AM - 04:00 AM	43.5	58.2	40.3
04:00 AM - 05:00 AM	50.5	73.5	43.0
05:00 AM - 06:00 AM	51.0	74.2	40.9
06:00 AM - 07:00 AM	54.6	81.7	38.2
07:00 AM - 08:00 AM	53.2	81.3	39.6
08:00 AM - 09:00 AM	53.5	80.7	38.8

Leq Average 24 hrs. (dB(A)) 53.2  
Lmax (dB(A)) 86.6  
L90 (dB(A)) 42.5  
Ldn (dB(A)) 57.2  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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.



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338636-1

Page 1 of 1

**Sample Number** 2224226-10  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองอนามัย (GPS 47P 0792111, 1553109)  
**Measurement Date** May 25 - May 26, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.8	70.2	37.8
10:00 AM - 11:00 AM	53.8	82.7	38.2
11:00 AM - 12:00 PM	51.0	71.7	39.5
12:00 PM - 01:00 PM	50.2	74.6	39.8
01:00 PM - 02:00 PM	49.8	69.2	40.2
02:00 PM - 03:00 PM	52.5	74.6	40.9
03:00 PM - 04:00 PM	54.8	80.1	42.0
04:00 PM - 05:00 PM	55.4	83.1	43.9
05:00 PM - 06:00 PM	56.9	87.0	43.6
06:00 PM - 07:00 PM	54.6	81.7	42.9
07:00 PM - 08:00 PM	51.7	70.5	47.7
08:00 PM - 09:00 PM	49.4	72.5	45.7
09:00 PM - 10:00 PM	63.3	79.0	46.0
10:00 PM - 11:00 PM	48.6	64.4	41.4
11:00 PM - 12:00 AM	46.5	66.2	41.0
12:00 AM - 01:00 AM	44.8	63.1	41.2
01:00 AM - 02:00 AM	44.4	67.6	41.9
02:00 AM - 03:00 AM	45.7	61.0	42.7
03:00 AM - 04:00 AM	46.9	66.3	42.5
04:00 AM - 05:00 AM	51.8	75.8	44.7
05:00 AM - 06:00 AM	50.4	80.8	40.8
06:00 AM - 07:00 AM	52.6	74.1	41.0
07:00 AM - 08:00 AM	51.2	76.5	38.2
08:00 AM - 09:00 AM	49.1	69.9	36.4

Leq Average 24 hrs. (dB(A)) 53.6  
Lmax (dB(A)) 87.0  
L90 (dB(A)) 41.2  
Ldn (dB(A)) 57.0  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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.



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338637-1

Page 1 of 1

**Sample Number** 2224226-11  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองน้ามัย (GPS 47P 0792111, 1553109)  
**Measurement Date** May 26 - May 27, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.3	75.4	37.3
10:00 AM - 11:00 AM	51.3	74.5	37.2
11:00 AM - 12:00 PM	54.6	80.4	37.4
12:00 PM - 01:00 PM	49.8	72.3	36.5
01:00 PM - 02:00 PM	51.3	77.3	39.9
02:00 PM - 03:00 PM	49.2	70.4	39.5
03:00 PM - 04:00 PM	52.7	79.2	41.7
04:00 PM - 05:00 PM	58.6	83.5	43.3
05:00 PM - 06:00 PM	54.2	79.3	42.6
06:00 PM - 07:00 PM	52.8	71.7	46.1
07:00 PM - 08:00 PM	52.9	79.9	45.7
08:00 PM - 09:00 PM	50.8	69.4	46.7
09:00 PM - 10:00 PM	49.2	68.2	42.7
10:00 PM - 11:00 PM	47.5	63.9	42.9
11:00 PM - 12:00 AM	49.4	63.4	48.2
12:00 AM - 01:00 AM	48.4	62.3	45.9
01:00 AM - 02:00 AM	45.9	61.3	41.7
02:00 AM - 03:00 AM	42.9	63.8	39.1
03:00 AM - 04:00 AM	42.5	56.4	40.7
04:00 AM - 05:00 AM	50.7	67.7	42.0
05:00 AM - 06:00 AM	50.4	72.0	43.8
06:00 AM - 07:00 AM	50.6	70.8	39.5
07:00 AM - 08:00 AM	52.5	79.6	38.2
08:00 AM - 09:00 AM	51.4	79.1	38.0

Leq Average 24 hrs. (dB(A)) 51.7  
Lmax (dB(A)) 83.5  
L90 (dB(A)) 41.7  
Ldn (dB(A)) 55.8  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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.



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338638-1

Page 1 of 1

**Sample Number** 2224226-12  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองอนามัย (GPS 47P 0792111, 1553109)  
**Measurement Date** May 27 - May 28, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	49.7	70.2	39.9
10:00 AM - 11:00 AM	51.3	74.8	30.6
11:00 AM - 12:00 PM	50.4	74.0	31.5
12:00 PM - 01:00 PM	51.8	75.2	41.3
01:00 PM - 02:00 PM	51.4	81.6	40.5
02:00 PM - 03:00 PM	50.9	81.2	40.2
03:00 PM - 04:00 PM	52.3	77.6	44.6
04:00 PM - 05:00 PM	58.0	84.8	43.6
05:00 PM - 06:00 PM	54.6	79.2	43.0
06:00 PM - 07:00 PM	56.2	87.7	41.7
07:00 PM - 08:00 PM	52.0	71.9	46.2
08:00 PM - 09:00 PM	50.6	75.5	44.5
09:00 PM - 10:00 PM	48.0	69.2	26.8
10:00 PM - 11:00 PM	48.4	65.8	45.0
11:00 PM - 12:00 AM	47.2	64.9	43.9
12:00 AM - 01:00 AM	49.3	73.1	46.7
01:00 AM - 02:00 AM	49.6	67.5	48.1
02:00 AM - 03:00 AM	43.8	59.6	40.7
03:00 AM - 04:00 AM	43.9	66.9	41.0
04:00 AM - 05:00 AM	45.2	61.1	43.6
05:00 AM - 06:00 AM	51.9	70.5	43.7
06:00 AM - 07:00 AM	50.6	69.8	39.6
07:00 AM - 08:00 AM	49.5	72.9	39.3
08:00 AM - 09:00 AM	50.6	76.7	5.0

Leq Average 24 hrs. (dB(A)) 51.6  
Lmax (dB(A)) 87.7  
L90 (dB(A)) 41.3  
Ldn (dB(A)) 55.9  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

Technical Management

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

Approved by

*Supot S.*

Supot Salamteh  
Section Head

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.



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338639-1

Page 1 of 1

**Sample Number** 2224226-13  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองอนามัย (GPS 47P 0792111, 1553109)  
**Measurement Date** May 28 - May 29, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	50.4	80.7	10.6
10:00 AM - 11:00 AM	46.2	68.1	10.4
11:00 AM - 12:00 PM	51.5	75.0	20.8
12:00 PM - 01:00 PM	56.6	85.9	41.1
01:00 PM - 02:00 PM	54.0	82.5	40.6
02:00 PM - 03:00 PM	53.7	78.6	42.3
03:00 PM - 04:00 PM	53.5	79.3	42.0
04:00 PM - 05:00 PM	55.6	81.3	44.4
05:00 PM - 06:00 PM	58.1	93.6	44.5
06:00 PM - 07:00 PM	53.0	80.9	42.3
07:00 PM - 08:00 PM	50.3	74.0	43.3
08:00 PM - 09:00 PM	48.6	76.7	41.1
09:00 PM - 10:00 PM	46.7	67.8	40.9
10:00 PM - 11:00 PM	48.1	67.7	45.4
11:00 PM - 12:00 AM	48.2	65.1	45.1
12:00 AM - 01:00 AM	52.1	62.2	46.7
01:00 AM - 02:00 AM	48.3	61.9	42.7
02:00 AM - 03:00 AM	47.9	63.7	46.8
03:00 AM - 04:00 AM	48.1	60.0	47.1
04:00 AM - 05:00 AM	46.2	56.4	43.6
05:00 AM - 06:00 AM	50.2	72.2	40.5
06:00 AM - 07:00 AM	48.1	72.6	37.1
07:00 AM - 08:00 AM	51.4	75.7	36.8
08:00 AM - 09:00 AM	48.6	70.8	36.9

Leq Average 24 hrs. (dB(A)) 52.0  
Lmax (dB(A)) 93.6  
L90 (dB(A)) 42.0  
Ldn (dB(A)) 56.2  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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.



## Analysis / Test Report

**Client :** Gulf NC Co., Ltd.  
418 Moo 1, Nontree, Kabin Buri, Prachinburi Thailand 25110  
**P/O :** สัญญาเลขที่ 4600001511  
**Project Name :** Monitoring EIA  
**Project Location :** GNC

**Lot ID: 2224226**

Date Received : May 31, 2022  
Date Reported : Jun 09, 2022  
Report Number: 2338640-1

Page 1 of 1

**Sample Number** 2224226-14  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ชุมชนบ้านหนองน้ามัย (GPS 47P 0792111, 1553109)  
**Measurement Date** May 29 - May 30, 2022  
**Measurement by** Nontachai Uppathamp  
**Sound Level meter** Serial No. 472126

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	50.5	74.2	37.0
10:00 AM - 11:00 AM	53.2	77.1	37.6
11:00 AM - 12:00 PM	53.9	77.2	39.6
12:00 PM - 01:00 PM	52.3	75.8	39.2
01:00 PM - 02:00 PM	53.6	76.3	40.8
02:00 PM - 03:00 PM	55.3	80.6	40.8
03:00 PM - 04:00 PM	54.0	76.9	41.0
04:00 PM - 05:00 PM	53.2	74.4	43.3
05:00 PM - 06:00 PM	56.9	87.7	44.0
06:00 PM - 07:00 PM	56.4	84.5	42.8
07:00 PM - 08:00 PM	55.7	88.4	44.2
08:00 PM - 09:00 PM	50.9	75.5	45.9
09:00 PM - 10:00 PM	51.5	79.1	43.5
10:00 PM - 11:00 PM	48.5	72.1	44.8
11:00 PM - 12:00 AM	47.5	75.8	43.4
12:00 AM - 01:00 AM	47.7	63.7	45.3
01:00 AM - 02:00 AM	48.7	67.8	46.6
02:00 AM - 03:00 AM	48.2	61.5	45.4
03:00 AM - 04:00 AM	49.0	71.0	39.3
04:00 AM - 05:00 AM	46.9	58.8	45.9
05:00 AM - 06:00 AM	50.2	74.5	35.6
06:00 AM - 07:00 AM	49.3	73.0	35.8
07:00 AM - 08:00 AM	51.1	74.6	38.0
08:00 AM - 09:00 AM	52.7	76.0	38.4

Leq Average 24 hrs. (dB(A)) 52.5  
Lmax (dB(A)) 88.4  
L90 (dB(A)) 41.0  
Ldn (dB(A)) 56.2  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

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

**Technical Management**

*Saranya C.*

Saranya Chalermthamrong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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.