ภาคผนวก ค

ผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

ภาคผนวก ค-1

คุณภาพอากาศจากปล่อง

Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107652
Date Received : Sep 18, 2023
Date Reported : Sep 23, 2023
Report Number: 2775659-1

Sample Number	23107652-1
Sampled Date	Sep 18, 2023
Sample Description	Emission from Stationary Source
Location	ปล่องหน่วยผลิตไอน้ำ (HRSG) #11 (GPS 47P 0729672, 1434585)
Date Analysis Commenced	Sep 18, 2023
Condition of Sample	Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, one plastic bottle, one 10-L air sampling bag and one amber plastic bottle, refrigerated

Stack Description

Ambient Pressure	750	mmHg	Diameter	2.90	m	Oxygen	14.6	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.4	%
Type of Process	Combustion		Stack Temperature	104	°C	Gas Velocity	22.9	m/s
Type of Fuel	Natural Gas		Moisture	7.20	%	Flow Rate (Actual O2)	393072	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O_2	Result at 14.6 % O_2	Guideline Limit	Method	Testing Location
Air Testing									
Carbon Monoxide *	10:30 AM - 10:40 AM	ppm	-	1.0	<1.0	<1.0	No Standard	United States Environmental Protection Agency, EPA Method 10	Rayong
Oxides of Nitrogen *	10:05 AM - 10:15 AM	ppm	-	1.06	12.6	5.71	120	United States Environmental Protection Agency, EPA Method 7	Rayong
Sulfur dioxide *	10:00 AM - 12:00 PM	ppm	-	0.5	<0.5	<0.5	20	United States Environmental Protection Agency, EPA Method 6	Rayong
Total Suspended Particulate	10:00 AM - 11:00 AM	mg/m3	-	0.5	<0.5	<0.5	60	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline :

Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

Technical Management Thanita K.
Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-ฉ-9447

Approved by D. Changchon
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107652
Date Received : Sep 18, 2023
Date Reported : Sep 23, 2023
Report Number: 2775659-1

Sample Number	23107652-1
Sampled Date	Sep 18, 2023
Sample Description	Emission from Stationary Source
Location	ปล่องหน่วยผลิตไอน้ำ (HRSG) #11 (GPS 47P 0729672, 1434585)
Date Analysis Commenced	Sep 18, 2023
Condition of Sample	Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, one plastic bottle, one 10-L air sampling bag and one amber plastic bottle, refrigerated

Stack Description

Ambient Pressure	750	mmHg	Diameter	2.90	m	Oxygen	14.6	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.4	%
Type of Process	Combustion		Stack Temperature	104	°C	Gas Velocity	22.9	m/s
Type of Fuel	Natural Gas		Moisture	7.20	%	Flow Rate (Actual O2)	393072	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline Limit	Method	Testing Location
Air Testing								
Carbon Monoxide *	10:30 AM - 10:40 AM	kg/day	-	-	<10.4	No Standard	Calculated	Rayong
Carbon Monoxide *	10:30 AM - 10:40 AM	g/s	-	-	<0.120	No Standard	Calculated	Rayong
Oxides of Nitrogen *	10:05 AM - 10:15 AM	g/s	-	-	1.170	No Standard	Calculated	Rayong
Oxides of Nitrogen *	10:05 AM - 10:15 AM	kg/day	-	-	101	No Standard	Calculated	Rayong
Sulfur dioxide *	10:00 AM - 12:00 PM	g/s	-	-	<0.142	No Standard	Calculated	Rayong
Sulfur Dioxide *	10:00 AM - 12:00 PM	kg/day	-	-	<12.26	No Standard	Calculated	Rayong
Total Suspended Particulate *	10:00 AM - 11:00 AM	g/s	-	-	<0.055	No Standard	Calculated	Rayong
Total Suspended Particulate *	10:00 AM - 11:00 AM	kg/day	-	-	<4.72	No Standard	Calculated	Rayong

Sampled By : Warawut Pubpa

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

Technical Management Thanita K.
Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-ฉ-9447

Approved by D. Changchon
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-9442

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9773-41 S:\Reports_Air Stack_O2_GL.rpt (4:00PM)

Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107653
Date Received : Sep 18, 2023
Date Reported : Sep 23, 2023
Report Number: 2775675-1

Sample Number	23107653-1
Sampled Date	Sep 18, 2023
Sample Description	Emission from Stationary Source
Location	ปล่องหน่วยผลิตไอน้ำ (HRSG) #12 (GPS 47P 0729694, 1434594)
Date Analysis Commenced	Sep 18, 2023
Condition of Sample	Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, one plastic bottle, one 10-L air sampling bag and one amber plastic bottle, refrigerated

Stack Description

Ambient Pressure	750	mmHg	Diameter	2.90	m	Oxygen	14.4	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.5	%
Type of Process	Combustion		Stack Temperature	102	°C	Gas Velocity	23.5	m/s
Type of Fuel	Natural Gas		Moisture	7.14	%	Flow Rate (Actual O2)	405655	Nm3/hr

Analyte	Sampled Time	Unit	LDD	LOQ (LOR)	Result at 7 %O₂	Result at 14.4 % O₂	Guideline Limit	Method	Testing Location
Air Testing									
Carbon Monoxide *	03:00 PM - 03:10 PM	ppm	-	1.0	<1.0	<1.0	No Standard	United States Environmental Protection Agency, EPA Method 10	Rayong
Oxides of Nitrogen *	02:50 PM - 03:00 PM	ppm	-	1.06	8.9	4.16	120	United States Environmental Protection Agency, EPA Method 7	Rayong
Sulfur dioxide *	02:40 PM - 04:40 PM	ppm	-	0.5	<0.5	<0.5	20	United States Environmental Protection Agency, EPA Method 6	Rayong
Total Suspended Particulate	02:40 PM - 03:40 PM	mg/m3	-	0.5	<0.5	<0.5	60	United States Environmental Protection Agency, EPA Method 5	Rayong

Guideline :

Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

Technical Management Thanita K.
Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-ล-9447

Approved by D. Changchon
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-9442

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107653
Date Received : Sep 18, 2023
Date Reported : Sep 23, 2023
Report Number: 2775675-1

Sample Number	23107653-1
Sampled Date	Sep 18, 2023
Sample Description	Emission from Stationary Source
Location	ปล่องหน่วยผลิตไอน้ำ (HRSG) #12 (GPS 47P 0729694, 1434594)
Date Analysis Commenced	Sep 18, 2023
Condition of Sample	Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, one plastic bottle, one 10-L air sampling bag and one amber plastic bottle, refrigerated

Stack Description

Ambient Pressure	750	mmHg	Diameter	2.90	m	Oxygen	14.4	%
Ambient Temperature	32.0	°C	Shape	Circle		Carbon Dioxide	3.5	%
Type of Process	Combustion		Stack Temperature	102	°C	Gas Velocity	23.5	m/s
Type of Fuel	Natural Gas		Moisture	7.14	%	Flow Rate (Actual O2)	405655	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline Limit	Method	Testing Location
Air Testing								
Carbon Monoxide *	03:00 PM - 03:10 PM	kg/day	-	-	<10.7	No Standard	Calculated	Rayong
Carbon Monoxide *	03:00 PM - 03:10 PM	g/s	-	-	<0.134	No Standard	Calculated	Rayong
Oxides of Nitrogen *	02:50 PM - 03:00 PM	g/s	-	-	0.880	No Standard	Calculated	Rayong
Oxides of Nitrogen *	02:50 PM - 03:00 PM	kg/day	-	-	76.0	No Standard	Calculated	Rayong
Sulfur dioxide *	02:40 PM - 04:40 PM	g/s	-	-	<0.146	No Standard	Calculated	Rayong
Sulfur Dioxide *	02:40 PM - 04:40 PM	kg/day	-	-	<12.66	No Standard	Calculated	Rayong
Total Suspended Particulate *	02:40 PM - 03:40 PM	g/s	-	-	<0.056	No Standard	Calculated	Rayong
Total Suspended Particulate *	02:40 PM - 03:40 PM	kg/day	-	-	<4.87	No Standard	Calculated	Rayong

Sampled By : Warawut Pubpa

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

Technical Management Thanita K.
Thanita Kulsuriwong
Scientist (4)
ทะเบียนเลขที่ ว-323-ล-9447

Approved by D. Changchon
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-9442

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9773-41 S:\Reports_Air Stack_O2_GL.rpt (4:02PM)

ภาคผนวก ค-2

คุณภาพอากาศในบรรยากาศ

Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107654
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775677-1

Sample Description Air Quality
Location โรงพยาบาลส่งเสริมสุขภาพตำบลมาบยางพร
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 18, 2023 - Sep 25, 2023
Measurement by Nontachai Uppathamp

Time	23107654-1 Sep 18, 2023	23107654-2 Sep 19, 2023	23107654-3 Sep 20, 2023	23107654-4 Sep 21, 2023	23107654-5 Sep 22, 2023	23107654-6 Sep 23, 2023	23107654-7 Sep 24, 2023
03:00 PM - 04:00 PM	0.006	0.005	0.003	0.004	0.009	0.006	0.004
04:00 PM - 05:00 PM	0.008	0.005	0.004	0.005	0.010	0.004	0.005
05:00 PM - 06:00 PM	0.008	0.003	0.003	0.004	0.006	0.003	0.005
06:00 PM - 07:00 PM	0.005	0.004	0.003	0.005	0.008	0.003	0.005
07:00 PM - 08:00 PM	0.005	0.005	0.003	0.004	0.009	0.004	0.009
08:00 PM - 09:00 PM	0.004	0.003	0.004	0.004	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.005	0.003	0.004	0.004	0.004	0.005	0.004
10:00 PM - 11:00 PM	0.006	0.003	0.005	0.005	0.004	0.005	0.003
11:00 PM - 12:00 AM	0.005	0.006	0.004	0.006	0.003	0.005	0.003
12:00 AM - 01:00 AM	0.006	0.004	0.004	0.004	0.004	0.006	0.003
01:00 AM - 02:00 AM	0.008	0.004	0.003	0.005	0.004	0.006	0.003
02:00 AM - 03:00 AM	0.008	0.004	0.004	0.005	0.004	0.004	0.003
03:00 AM - 04:00 AM	0.006	0.004	0.004	0.005	0.004	0.006	0.003
04:00 AM - 05:00 AM	0.006	0.006	0.004	0.004	0.003	0.010	0.004
05:00 AM - 06:00 AM	0.004	0.007	0.009	0.005	0.010	0.008	0.005
06:00 AM - 07:00 AM	0.004	0.008	0.009	0.006	0.010	0.006	0.008
07:00 AM - 08:00 AM	0.005	0.007	0.008	0.006	0.005	0.005	0.006
08:00 AM - 09:00 AM	0.004	0.006	0.004	0.006	0.005	0.007	0.004
09:00 AM - 10:00 AM	0.006	0.006	0.005	0.004	0.006	0.004	0.004
10:00 AM - 11:00 AM	0.003	0.004	0.004	0.005	0.010	0.005	0.003
11:00 AM - 12:00 PM	0.004	0.003	0.003	0.006	0.007	0.004	0.003
12:00 PM - 01:00 PM	0.003	0.003	0.004	0.005	0.005	0.004	0.003
01:00 PM - 02:00 PM	0.005	0.003	0.003	0.004	0.004	0.004	0.003
02:00 PM - 03:00 PM	0.004	0.003	0.003	0.006	0.005	0.004	0.003
Average	0.005	0.005	0.004	0.005	0.006	0.005	0.004
1hr - Maximum	0.008	0.008	0.009	0.006	0.010	0.010	0.009
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

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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
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107673
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775749-1

Sample Description Air Quality
Location ชุมชนบ้านโป่งสะเก็ด
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 18, 2023 - Sep 25, 2023
Measurement by Nontachai Uppathamp

Time	23107673-1 Sep 18, 2023	23107673-2 Sep 19, 2023	23107673-3 Sep 20, 2023	23107673-4 Sep 21, 2023	23107673-5 Sep 22, 2023	23107673-6 Sep 23, 2023	23107673-7 Sep 24, 2023
11:00 AM - 12:00 PM	0.007	0.006	0.004	0.005	0.010	0.006	0.004
12:00 PM - 01:00 PM	0.009	0.006	0.005	0.005	0.011	0.005	0.006
01:00 PM - 02:00 PM	0.008	0.004	0.004	0.004	0.006	0.004	0.006
02:00 PM - 03:00 PM	0.006	0.005	0.004	0.006	0.009	0.004	0.006
03:00 PM - 04:00 PM	0.006	0.006	0.004	0.004	0.009	0.005	0.010
04:00 PM - 05:00 PM	0.005	0.004	0.005	0.005	0.005	0.005	0.005
05:00 PM - 06:00 PM	0.006	0.004	0.005	0.005	0.004	0.006	0.004
06:00 PM - 07:00 PM	0.006	0.004	0.006	0.006	0.005	0.006	0.004
07:00 PM - 08:00 PM	0.006	0.007	0.005	0.007	0.004	0.006	0.004
08:00 PM - 09:00 PM	0.006	0.005	0.004	0.005	0.004	0.006	0.004
09:00 PM - 10:00 PM	0.008	0.005	0.004	0.006	0.004	0.006	0.004
10:00 PM - 11:00 PM	0.009	0.005	0.004	0.006	0.004	0.005	0.004
11:00 PM - 12:00 AM	0.007	0.005	0.005	0.005	0.004	0.007	0.004
12:00 AM - 01:00 AM	0.006	0.007	0.004	0.005	0.004	0.011	0.005
01:00 AM - 02:00 AM	0.004	0.000	0.010	0.005	0.011	0.009	0.006
02:00 AM - 03:00 AM	0.005	0.008	0.010	0.007	0.010	0.007	0.009
03:00 AM - 04:00 AM	0.006	0.008	0.009	0.007	0.006	0.006	0.007
04:00 AM - 05:00 AM	0.005	0.007	0.005	0.007	0.006	0.008	0.005
05:00 AM - 06:00 AM	0.006	0.007	0.006	0.005	0.007	0.005	0.004
06:00 AM - 07:00 AM	0.004	0.004	0.005	0.006	0.011	0.006	0.004
07:00 AM - 08:00 AM	0.004	0.004	0.004	0.007	0.008	0.005	0.004
08:00 AM - 09:00 AM	0.004	0.004	0.005	0.006	0.006	0.004	0.004
09:00 AM - 10:00 AM	0.006	0.004	0.004	0.005	0.005	0.004	0.004
10:00 AM - 11:00 AM	0.005	0.003	0.004	0.006	0.006	0.005	0.004
Average	0.006	0.005	0.005	0.006	0.007	0.006	0.005
1hr - Maximum	0.009	0.008	0.010	0.007	0.011	0.011	0.010
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

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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

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107674
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775750-1

Sample Description Air Quality
Location โรงเรียนสวนกุหลาบฯ
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 18, 2023 - Sep 25, 2023
Measurement by Nontachai Uppathamp

Time	23107674-1 Sep 18, 2023	23107674-2 Sep 19, 2023	23107674-3 Sep 20, 2023	23107674-4 Sep 21, 2023	23107674-5 Sep 22, 2023	23107674-6 Sep 23, 2023	23107674-7 Sep 24, 2023
12:00 PM - 01:00 PM	0.005	0.005	0.005	0.005	0.004	0.005	0.004
01:00 PM - 02:00 PM	0.006	0.004	0.004	0.005	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.008	0.004	0.004	0.004	0.004	0.004	0.004
03:00 PM - 04:00 PM	0.006	0.005	0.004	0.004	0.004	0.004	0.005
04:00 PM - 05:00 PM	0.008	0.006	0.004	0.004	0.005	0.004	0.004
05:00 PM - 06:00 PM	0.008	0.005	0.004	0.004	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.004	0.004	0.004	0.005	0.004	0.004	0.005
07:00 PM - 08:00 PM	0.005	0.004	0.004	0.006	0.004	0.006	0.004
08:00 PM - 09:00 PM	0.007	0.004	0.004	0.005	0.004	0.007	0.004
09:00 PM - 10:00 PM	0.006	0.005	0.004	0.009	0.005	0.004	0.008
10:00 PM - 11:00 PM	0.013	0.005	0.004	0.013	0.009	0.004	0.012
11:00 PM - 12:00 AM	0.016	0.004	0.004	0.012	0.010	0.004	0.009
12:00 AM - 01:00 AM	0.013	0.004	0.004	0.011	0.008	0.005	0.010
01:00 AM - 02:00 AM	0.004	0.004	0.004	0.012	0.005	0.005	0.008
02:00 AM - 03:00 AM	0.004	0.004	0.004	0.013	0.004	0.004	0.007
03:00 AM - 04:00 AM	0.003	0.004	0.004	0.011	0.005	0.004	0.008
04:00 AM - 05:00 AM	0.003	0.004	0.004	0.008	0.006	0.004	0.007
05:00 AM - 06:00 AM	0.004	0.004	0.004	0.010	0.006	0.004	0.007
06:00 AM - 07:00 AM	0.005	0.004	0.004	0.009	0.005	0.004	0.007
07:00 AM - 08:00 AM	0.007	0.004	0.005	0.008	0.006	0.004	0.009
08:00 AM - 09:00 AM	0.009	0.004	0.008	0.011	0.008	0.005	0.013
09:00 AM - 10:00 AM	0.015	0.005	0.007	0.014	0.012	0.007	0.022
10:00 AM - 11:00 AM	0.010	0.007	0.005	0.005	0.008	0.008	0.007
11:00 AM - 12:00 PM	0.007	0.006	0.006	0.004	0.006	0.006	0.004
Average	0.007	0.004	0.004	0.008	0.006	0.005	0.007
1hr - Maximum	0.016	0.007	0.008	0.014	0.012	0.008	0.022
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).
Reference Method : US EPAMethod Part 50 App. F (Chemiluminescence)

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Approved by
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
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107675
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775751-1

Sample Description Air Quality
Location บ้านห้วยปราน (ซอยห้างแก้ว)
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 18, 2023 - Sep 25, 2023
Measurement by Nontachai Uppathamp

Time	23107675-1 Sep 18, 2023	23107675-2 Sep 19, 2023	23107675-3 Sep 20, 2023	23107675-4 Sep 21, 2023	23107675-5 Sep 22, 2023	23107675-6 Sep 23, 2023	23107675-7 Sep 24, 2023
01:00 PM - 02:00 PM	0.007	0.009	0.005	0.004	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.010	0.013	0.005	0.004	0.004	0.004	0.004
03:00 PM - 04:00 PM	0.008	0.007	0.005	0.004	0.004	0.004	0.004
04:00 PM - 05:00 PM	0.006	0.005	0.005	0.004	0.004	0.004	0.004
05:00 PM - 06:00 PM	0.004	0.006	0.004	0.004	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.005	0.006	0.004	0.003	0.004	0.004	0.004
07:00 PM - 08:00 PM	0.004	0.006	0.004	0.004	0.004	0.004	0.004
08:00 PM - 09:00 PM	0.005	0.005	0.004	0.004	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.005	0.004	0.004	0.004	0.004	0.004	0.004
10:00 PM - 11:00 PM	0.009	0.004	0.008	0.004	0.004	0.004	0.004
11:00 PM - 12:00 AM	0.005	0.004	0.005	0.004	0.004	0.005	0.004
12:00 AM - 01:00 AM	0.004	0.005	0.005	0.004	0.004	0.004	0.004
01:00 AM - 02:00 AM	0.003	0.004	0.005	0.004	0.004	0.004	0.004
02:00 AM - 03:00 AM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
03:00 AM - 04:00 AM	0.004	0.005	0.004	0.005	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.003	0.005	0.004	0.004	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.003	0.004	0.005	0.005	0.004	0.004	0.004
06:00 AM - 07:00 AM	0.003	0.004	0.004	0.006	0.004	0.004	0.004
07:00 AM - 08:00 AM	0.004	0.006	0.005	0.007	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.005	0.007	0.005	0.005	0.004	0.004	0.005
09:00 AM - 10:00 AM	0.004	0.010	0.005	0.005	0.005	0.006	0.005
10:00 AM - 11:00 AM	0.005	0.007	0.005	0.006	0.004	0.006	0.004
11:00 AM - 12:00 PM	0.005	0.005	0.004	0.005	0.004	0.004	0.004
12:00 PM - 01:00 PM	0.007	0.004	0.004	0.004	0.004	0.004	0.004
Average	0.005	0.006	0.005	0.004	0.004	0.004	0.004
1hr - Maximum	0.010	0.013	0.008	0.007	0.005	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 EPAMethod Part 50 App. F (Chemiluminescence)

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Approved by
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
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107656
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775678-1

Sample Description Air Quality
Location โรงเรียนบ้านกู่ไหร
Parameter Nitrogen dioxide (ppm)
Measurement Date Sep 18, 2023 - Sep 25, 2023
Measurement by Nontachai Uppathamp

Time	23107656-1 Sep 18, 2023	23107656-2 Sep 19, 2023	23107656-3 Sep 20, 2023	23107656-4 Sep 21, 2023	23107656-5 Sep 22, 2023	23107656-6 Sep 23, 2023	23107656-7 Sep 24, 2023
10:00 AM - 11:00 AM	0.014	0.028	0.004	0.002	0.003	0.004	0.003
11:00 AM - 12:00 PM	0.012	0.004	0.003	0.002	0.004	0.002	0.002
12:00 PM - 01:00 PM	0.006	0.003	0.002	0.002	0.003	0.003	0.002
01:00 PM - 02:00 PM	0.005	0.015	0.002	0.002	0.013	0.006	0.002
02:00 PM - 03:00 PM	0.004	0.003	0.002	0.002	0.014	0.003	0.002
03:00 PM - 04:00 PM	0.003	0.003	0.002	0.002	0.003	0.003	0.002
04:00 PM - 05:00 PM	0.003	0.003	0.003	0.002	0.003	0.003	0.002
05:00 PM - 06:00 PM	0.003	0.003	0.002	0.002	0.003	0.003	0.002
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.002	0.002	0.003	0.003
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.002	0.003	0.003	0.003
08:00 PM - 09:00 PM	0.003	0.003	0.002	0.002	0.003	0.003	0.003
09:00 PM - 10:00 PM	0.003	0.003	0.002	0.002	0.003	0.003	0.003
10:00 PM - 11:00 PM	0.001	0.003	0.003	0.002	0.003	0.003	0.003
11:00 PM - 12:00 AM	0.006	0.003	0.003	0.003	0.003	0.003	0.003
12:00 AM - 01:00 AM	0.000	0.003	0.003	0.002	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.003	0.003	0.003	0.002	0.003	0.003	0.003
02:00 AM - 03:00 AM	0.003	0.003	0.003	0.002	0.003	0.003	0.003
03:00 AM - 04:00 AM	0.003	0.003	0.003	0.002	0.003	0.003	0.003
04:00 AM - 05:00 AM	0.003	0.003	0.003	0.002	0.003	0.003	0.003
05:00 AM - 06:00 AM	0.004	0.003	0.003	0.002	0.002	0.003	0.003
06:00 AM - 07:00 AM	0.004	0.003	0.003	0.003	0.002	0.003	0.003
07:00 AM - 08:00 AM	0.009	0.003	0.003	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.008	0.003	0.003	0.003	0.003	0.003	0.003
09:00 AM - 10:00 AM	0.016	0.003	0.003	0.002	0.004	0.004	0.003
Average	0.005	0.004	0.003	0.002	0.004	0.003	0.003
1hr - Maximum	0.016	0.020	0.004	0.003	0.014	0.006	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 EPAMethod Part 50 App. F (Chemiluminescence)

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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
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107657
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775684-1

Sample Description Air Quality
Location โรงพยาบาลส่งเสริมสุขภาพตำบลมาบยางหร
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 18, 2023 - Sep 25, 2023
Measurement by Nontachai Uppathamp

Time	23107657-1 Sep 18, 2023	23107657-2 Sep 19, 2023	23107657-3 Sep 20, 2023	23107657-4 Sep 21, 2023	23107657-5 Sep 22, 2023	23107657-6 Sep 23, 2023	23107657-7 Sep 24, 2023
03:00 PM - 04:00 PM	0.004	0.004	0.005	0.005	0.005	0.005	0.005
04:00 PM - 05:00 PM	0.004	0.004	0.005	0.005	0.004	0.005	0.005
05:00 PM - 06:00 PM	0.004	0.004	0.005	0.005	0.005	0.005	0.005
06:00 PM - 07:00 PM	0.004	0.004	0.005	0.005	0.005	0.005	0.005
07:00 PM - 08:00 PM	0.004	0.004	0.005	0.005	0.004	0.005	0.005
08:00 PM - 09:00 PM	0.004	0.004	0.005	0.005	0.004	0.005	0.005
09:00 PM - 10:00 PM	0.004	0.004	0.005	0.005	0.004	0.005	0.005
10:00 PM - 11:00 PM	0.004	0.004	0.005	0.004	0.004	0.005	0.005
11:00 PM - 12:00 AM	0.004	0.004	0.005	0.005	0.004	0.004	0.005
12:00 AM - 01:00 AM	0.004	0.005	0.005	0.005	0.004	0.004	0.004
01:00 AM - 02:00 AM	0.004	0.005	0.005	0.005	0.005	0.004	0.004
02:00 AM - 03:00 AM	0.004	0.004	0.005	0.005	0.005	0.004	0.004
03:00 AM - 04:00 AM	0.004	0.004	0.005	0.005	0.005	0.004	0.004
04:00 AM - 05:00 AM	0.004	0.004	0.005	0.005	0.005	0.004	0.005
05:00 AM - 06:00 AM	0.004	0.004	0.005	0.005	0.005	0.004	0.004
06:00 AM - 07:00 AM	0.004	0.004	0.005	0.005	0.005	0.004	0.004
07:00 AM - 08:00 AM	0.004	0.005	0.005	0.005	0.004	0.004	0.005
08:00 AM - 09:00 AM	0.004	0.005	0.005	0.005	0.004	0.004	0.004
09:00 AM - 10:00 AM	0.004	0.006	0.005	0.005	0.005	0.004	0.005
10:00 AM - 11:00 AM	0.004	0.006	0.005	0.005	0.005	0.004	0.005
11:00 AM - 12:00 PM	0.004	0.005	0.005	0.005	0.005	0.005	0.005
12:00 PM - 01:00 PM	0.004	0.005	0.005	0.005	0.005	0.005	0.005
01:00 PM - 02:00 PM	0.004	0.005	0.005	0.005	0.005	0.005	0.005
02:00 PM - 03:00 PM	0.004	0.005	0.005	0.005	0.005	0.005	0.005
Average	0.004	0.005	0.005	0.005	0.005	0.005	0.005
1hr - Maximum	0.004	0.006	0.005	0.005	0.005	0.005	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

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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
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107676
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775753-1

Sample Description Air Quality
Location ชุมชนบ้านโป่งสะเก็ด
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 18, 2023 - Sep 25, 2023
Measurement by Nontachai Uppathamp

Time	23107676-1 Sep 18, 2023	23107676-2 Sep 19, 2023	23107676-3 Sep 20, 2023	23107676-4 Sep 21, 2023	23107676-5 Sep 22, 2023	23107676-6 Sep 23, 2023	23107676-7 Sep 24, 2023
11:00 AM - 12:00 PM	0.004	0.004	0.004	0.005	0.006	0.006	0.005
12:00 PM - 01:00 PM	0.004	0.004	0.004	0.005	0.006	0.006	0.005
01:00 PM - 02:00 PM	0.004	0.004	0.004	0.006	0.006	0.006	0.006
02:00 PM - 03:00 PM	0.004	0.004	0.004	0.006	0.006	0.007	0.006
03:00 PM - 04:00 PM	0.004	0.004	0.004	0.006	0.006	0.006	0.006
04:00 PM - 05:00 PM	0.004	0.004	0.004	0.006	0.006	0.006	0.006
05:00 PM - 06:00 PM	0.004	0.004	0.004	0.006	0.006	0.006	0.006
06:00 PM - 07:00 PM	0.004	0.004	0.004	0.006	0.006	0.006	0.006
07:00 PM - 08:00 PM	0.004	0.004	0.004	0.006	0.006	0.006	0.006
08:00 PM - 09:00 PM	0.004	0.004	0.004	0.006	0.006	0.006	0.006
09:00 PM - 10:00 PM	0.004	0.005	0.004	0.006	0.006	0.006	0.006
10:00 PM - 11:00 PM	0.005	0.004	0.005	0.006	0.006	0.006	0.006
11:00 PM - 12:00 AM	0.005	0.005	0.004	0.006	0.006	0.006	0.006
12:00 AM - 01:00 AM	0.005	0.005	0.004	0.005	0.006	0.006	0.006
01:00 AM - 02:00 AM	0.004	0.005	0.005	0.005	0.006	0.006	0.005
02:00 AM - 03:00 AM	0.004	0.005	0.005	0.005	0.006	0.005	0.005
03:00 AM - 04:00 AM	0.004	0.005	0.005	0.005	0.005	0.005	0.005
04:00 AM - 05:00 AM	0.004	0.005	0.005	0.005	0.005	0.005	0.005
05:00 AM - 06:00 AM	0.004	0.005	0.005	0.005	0.005	0.005	0.005
06:00 AM - 07:00 AM	0.004	0.005	0.005	0.005	0.006	0.005	0.005
07:00 AM - 08:00 AM	0.004	0.004	0.005	0.005	0.006	0.005	0.004
08:00 AM - 09:00 AM	0.004	0.004	0.005	0.005	0.006	0.005	0.005
09:00 AM - 10:00 AM	0.004	0.004	0.004	0.005	0.006	0.005	0.005
10:00 AM - 11:00 AM	0.004	0.004	0.005	0.005	0.006	0.005	0.005
Average	0.004	0.004	0.005	0.005	0.006	0.006	0.005
1hr - Maximum	0.005	0.005	0.005	0.006	0.006	0.007	0.006
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

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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

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107678
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775754-1

Sample Description Air Quality
Location โรงเรียนสวนกุหลาบฯ
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 18, 2023 - Sep 25, 2023
Measurement by Nontachai Uppathamp

Time	23107678-1 Sep 18, 2023	23107678-2 Sep 19, 2023	23107678-3 Sep 20, 2023	23107678-4 Sep 21, 2023	23107678-5 Sep 22, 2023	23107678-6 Sep 23, 2023	23107678-7 Sep 24, 2023
12:00 PM - 01:00 PM	0.002	0.004	0.004	0.004	0.004	0.004	0.003
01:00 PM - 02:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
02:00 PM - 03:00 PM	0.004	0.004	0.004	0.004	0.005	0.004	0.003
03:00 PM - 04:00 PM	0.004	0.004	0.004	0.004	0.005	0.004	0.003
04:00 PM - 05:00 PM	0.004	0.004	0.006	0.004	0.004	0.004	0.003
05:00 PM - 06:00 PM	0.004	0.004	0.004	0.005	0.004	0.004	0.003
06:00 PM - 07:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
07:00 PM - 08:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
08:00 PM - 09:00 PM	0.004	0.004	0.004	0.004	0.005	0.004	0.003
09:00 PM - 10:00 PM	0.004	0.005	0.004	0.004	0.005	0.004	0.003
10:00 PM - 11:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
11:00 PM - 12:00 AM	0.004	0.003	0.004	0.004	0.004	0.004	0.003
12:00 AM - 01:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
01:00 AM - 02:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
02:00 AM - 03:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
03:00 AM - 04:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
04:00 AM - 05:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.003
05:00 AM - 06:00 AM	0.004	0.004	0.004	0.004	0.004	0.005	0.003
06:00 AM - 07:00 AM	0.004	0.004	0.004	0.004	0.004	0.005	0.003
07:00 AM - 08:00 AM	0.004	0.005	0.004	0.004	0.004	0.004	0.003
08:00 AM - 09:00 AM	0.004	0.004	0.004	0.004	0.004	0.003	0.003
09:00 AM - 10:00 AM	0.004	0.004	0.004	0.004	0.004	0.003	0.003
10:00 AM - 11:00 AM	0.004	0.004	0.004	0.004	0.004	0.003	0.003
11:00 AM - 12:00 PM	0.004	0.004	0.004	0.004	0.004	0.003	0.003
Average	0.004	0.004	0.004	0.004	0.004	0.004	0.003
1hr - Maximum	0.004	0.005	0.006	0.005	0.005	0.005	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

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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
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107680
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775756-1

Sample Description Air Quality
Location บ้านห้วยปราบ (ซอยห้างแค้ว)
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 18, 2023 - Sep 25, 2023
Measurement by Nontachai Uppathamp

Time	23107680-1 Sep 18, 2023	23107680-2 Sep 19, 2023	23107680-3 Sep 20, 2023	23107680-4 Sep 21, 2023	23107680-5 Sep 22, 2023	23107680-6 Sep 23, 2023	23107680-7 Sep 24, 2023
01:00 PM - 02:00 PM	0.003	0.003	0.003	0.003	0.003	0.002	0.002
02:00 PM - 03:00 PM	0.003	0.003	0.003	0.003	0.002	0.002	0.002
03:00 PM - 04:00 PM	0.003	0.003	0.003	0.003	0.002	0.002	0.002
04:00 PM - 05:00 PM	0.003	0.003	0.003	0.003	0.002	0.002	0.002
05:00 PM - 06:00 PM	0.003	0.004	0.003	0.003	0.003	0.002	0.002
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.003	0.002	0.002	0.002
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.003	0.002	0.002	0.002
08:00 PM - 09:00 PM	0.003	0.003	0.003	0.003	0.002	0.002	0.002
09:00 PM - 10:00 PM	0.003	0.003	0.003	0.002	0.003	0.003	0.002
10:00 PM - 11:00 PM	0.003	0.003	0.003	0.002	0.003	0.002	0.003
11:00 PM - 12:00 AM	0.003	0.003	0.002	0.002	0.002	0.002	0.002
12:00 AM - 01:00 AM	0.003	0.003	0.003	0.002	0.003	0.002	0.002
01:00 AM - 02:00 AM	0.003	0.003	0.003	0.002	0.002	0.002	0.002
02:00 AM - 03:00 AM	0.003	0.003	0.003	0.002	0.002	0.002	0.002
03:00 AM - 04:00 AM	0.003	0.003	0.003	0.002	0.002	0.002	0.002
04:00 AM - 05:00 AM	0.003	0.003	0.003	0.002	0.002	0.003	0.002
05:00 AM - 06:00 AM	0.003	0.002	0.003	0.002	0.002	0.002	0.002
06:00 AM - 07:00 AM	0.003	0.003	0.003	0.002	0.002	0.002	0.002
07:00 AM - 08:00 AM	0.003	0.004	0.003	0.002	0.002	0.002	0.002
08:00 AM - 09:00 AM	0.003	0.004	0.003	0.002	0.003	0.002	0.002
09:00 AM - 10:00 AM	0.004	0.004	0.003	0.002	0.002	0.002	0.002
10:00 AM - 11:00 AM	0.003	0.003	0.003	0.002	0.003	0.002	0.002
11:00 AM - 12:00 PM	0.003	0.003	0.003	0.002	0.002	0.002	0.002
12:00 PM - 01:00 PM	0.003	0.003	0.003	0.002	0.003	0.002	0.002
Average	0.003	0.003	0.003	0.003	0.002	0.002	0.002
1hr - Maximum	0.004	0.004	0.003	0.003	0.003	0.003	0.003
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

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

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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
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107661
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775716-1

Sample Description Air Quality
Location โรงเรียนบ้านกูไทร
Parameter Sulfur Dioxide (ppm)
Measurement Date Sep 18, 2023 - Sep 25, 2023
Measurement by Nontachai Uppathamp

Time	23107661-1 Sep 18, 2023	23107661-2 Sep 19, 2023	23107661-3 Sep 20, 2023	23107661-4 Sep 21, 2023	23107661-5 Sep 22, 2023	23107661-6 Sep 23, 2023	23107661-7 Sep 24, 2023
10:00 AM - 11:00 AM	0.004	0.004	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	0.004	0.004	0.004	0.004	0.004	0.004	0.004
01:00 PM - 02:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03:00 PM - 04:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
04:00 PM - 05:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
05:00 PM - 06:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
07:00 PM - 08:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
08:00 PM - 09:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.004	0.004	0.004	0.004	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	0.004	0.004	0.004
12:00 AM - 01:00 AM	0.004	0.004	0.004	0.004	0.004	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	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03:00 AM - 04:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.004	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	0.005
07:00 AM - 08:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
09:00 AM - 10:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Average	0.004	0.004	0.004	0.004	0.004	0.004	0.004
1hr - Maximum	0.004	0.004	0.004	0.004	0.004	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

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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
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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107664
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775742-1

Sample Description	Air Quality
Location	โรงพยาบาลส่งเสริมสุขภาพตำบลมาบยางพร
Date Analysis Commenced	Sep 27, 2023
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23107664-1	Sep 18 - Sep 19, 2023	0.135	0.047	758	28
23107664-2	Sep 19 - Sep 20, 2023	0.284	0.142	758	31
23107664-3	Sep 20 - Sep 21, 2023	0.243	0.106	758	31
23107664-4	Sep 21 - Sep 22, 2023	0.058	0.030	758	32
23107664-5	Sep 22 - Sep 23, 2023	0.242	0.103	758	31
23107664-6	Sep 23 - Sep 24, 2023	0.116	0.061	758	32
23107664-7	Sep 24 - Sep 25, 2023	0.111	0.057	758	31
Guideline		0.33	0.12	-	-

Reference Method
Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Metter (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)

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107689
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775773-1

Sample Description	Air Quality
Location	ชุมชนบ้านโป่งสะเดิด
Date Analysis Commenced	Sep 27, 2023
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23107689-1	Sep 18 - Sep 19, 2023	0.060	0.024	758	28
23107689-2	Sep 19 - Sep 20, 2023	0.074	0.024	758	31
23107689-3	Sep 20 - Sep 21, 2023	0.034	0.026	758	31
23107689-4	Sep 21 - Sep 22, 2023	0.053	0.019	758	32
23107689-5	Sep 22 - Sep 23, 2023	0.087	0.025	758	31
23107689-6	Sep 23 - Sep 24, 2023	0.069	0.032	758	32
23107689-7	Sep 24 - Sep 25, 2023	0.065	0.026	758	31
Guideline		0.33	0.12	-	-

Reference Method
Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Metter (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)

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107690
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775782-1

Sample Description Air Quality
Location โรงเรียนสวนกุหลาบฯ
Date Analysis Commenced Sep 27, 2023
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23107690-1	Sep 18 - Sep 19, 2023	0.072	0.026	758	28
23107690-2	Sep 19 - Sep 20, 2023	0.105	0.041	758	31
23107690-3	Sep 20 - Sep 21, 2023	0.096	0.032	758	31
23107690-4	Sep 21 - Sep 22, 2023	0.052	0.023	758	32
23107690-5	Sep 22 - Sep 23, 2023	0.122	0.073	758	31
23107690-6	Sep 23 - Sep 24, 2023	0.075	0.036	758	32
23107690-7	Sep 24 - Sep 25, 2023	0.063	0.032	758	31
Guideline		0.33	0.12	-	-

Reference Method
Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Metter (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 Thanitak.
Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107692
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775784-1

Sample Description Air Quality
Location บ้านทัวฒโราม (ซอยห้างแก้ว)
Date Analysis Commenced Sep 27, 2023
Condition of Sample Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23107692-1	Sep 18 - Sep 19, 2023	0.078	0.033	758	28
23107692-2	Sep 19 - Sep 20, 2023	0.125	0.038	758	31
23107692-3	Sep 20 - Sep 21, 2023	0.030	0.019	758	31
23107692-4	Sep 21 - Sep 22, 2023	0.063	0.026	758	32
23107692-5	Sep 22 - Sep 23, 2023	0.107	0.037	758	31
23107692-6	Sep 23 - Sep 24, 2023	0.107	0.044	758	31
23107692-7	Sep 24 - Sep 25, 2023	0.098	0.036	758	32
Guideline		0.33	0.12	-	-

Reference Method
Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Metter (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 Thanitak.
Thanita Kulsuriwong
Scientist (4)

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107669
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775744-1

Sample Description	Air Quality
Location	โรงเรียนบ้านนาไทร
Date Analysis Commenced	Sep 27, 2023
Condition of Sample	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23107669-1	Sep 18 - Sep 19, 2023	0.037	0.014	758	28
23107669-2	Sep 19 - Sep 20, 2023	0.109	0.040	758	31
23107669-3	Sep 20 - Sep 21, 2023	0.125	0.038	758	31
23107669-4	Sep 21 - Sep 22, 2023	0.048	0.022	758	32
23107669-5	Sep 22 - Sep 23, 2023	0.219	0.077	758	31
23107669-6	Sep 23 - Sep 24, 2023	0.092	0.038	758	32
23107669-7	Sep 24 - Sep 25, 2023	0.042	0.022	758	31
Guideline		0.33	0.12	-	-

Reference Method

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

Particulate Metter (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)

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ภาคผนวก ค-3

ความเร็วลมและทิศทางลม

Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107662
Date Received :Sep 26, 2023
Date Reported :Oct 04, 2023
Report Number :2775717-1

Sample Number 23107662-1 to 7
Parameter Wind Speed / Wind Direction
Location โรงพยาบาลส่งเสริมสุขภาพตำบลมาบยางพร
Sampling Date Sep 18 - Sep 25, 2023
Sampling by Nontachai Uppathamp

Time	Sep 18 - Sep 19, 2023			Sep 19 - Sep 20, 2023			Sep 20 - Sep 21, 2023			Sep 21 - Sep 22, 2023			Sep 22 - Sep 23, 2023			Sep 23 - Sep 24, 2023			Sep 24 - Sep 25, 2023		
	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)	
03:00 PM - 04:00 PM	1.5	175.0	S	1.5	341.0	NNW	0.7	103.0	ESE	0.7	345.0	NNW	0.8	307.0	NW	2.4	359.0	N	2.8	45.0	NE
04:00 PM - 05:00 PM	0.7	171.0	S	1.1	339.0	NNW	0.0	-	-	0.8	16.0	NNE	0.8	307.0	NW	2.2	0.0	N	2.2	42.0	NE
05:00 PM - 06:00 PM	1.0	180.0	S	1.4	355.0	N	1.4	358.0	N	0.7	359.0	N	0.4	172.0	S	2.8	313.0	NW	2.1	41.0	NE
06:00 PM - 07:00 PM	0.4	209.0	SSW	0.0	-	-	0.0	-	-	0.4	203.0	SSW	0.2	-	-	2.8	313.0	NW	3.3	41.0	NE
07:00 PM - 08:00 PM	0.8	193.0	SSW	0.8	11.0	N	1.3	183.0	S	0.7	181.0	S	0.6	238.0	WSW	2.9	310.0	NW	1.6	41.0	NE
08:00 PM - 09:00 PM	0.8	193.0	SSW	0.0	-	-	0.4	339.0	NNW	2.4	181.0	S	0.3	226.0	SW	2.4	310.0	NW	2.3	82.0	E
09:00 PM - 10:00 PM	1.2	193.0	SSW	1.6	11.0	N	0.9	359.0	N	2.3	321.0	NW	2.0	335.0	NNW	0.3	309.0	NW	0.5	231.0	SW
10:00 PM - 11:00 PM	0.1	-	-	0.5	11.0	N	0.2	-	-	0.6	313.0	NW	1.0	111.0	ESE	2.8	310.0	NW	0.3	213.0	SSW
11:00 PM - 12:00 AM	0.2	-	-	0.0	-	-	1.7	260.0	W	0.2	-	-	0.6	302.0	WNW	2.2	309.0	NW	0.2	-	-
12:00 AM - 01:00 AM	0.7	193.0	SSW	0.7	305.0	NW	1.1	307.0	NW	0.1	-	-	0.4	302.0	WNW	0.5	310.0	NW	0.1	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.8	308.0	NW	0.8	316.0	NW	0.5	329.0	NNW	0.6	318.0	NW	0.3	309.0	NW	0.4	321.0	NW
02:00 AM - 03:00 AM	0.2	-	-	0.8	309.0	NW	1.1	294.0	WNW	0.0	-	-	0.7	305.0	NW	1.7	310.0	NW	0.4	159.0	SSE
03:00 AM - 04:00 AM	0.4	193.0	SSW	0.7	308.0	NW	0.6	58.0	ENE	0.8	348.0	NNW	1.3	305.0	NW	0.9	310.0	NW	0.5	178.0	S
04:00 AM - 05:00 AM	0.9	193.0	SSW	0.7	4.0	N	1.2	359.0	N	1.5	348.0	NNW	1.4	305.0	NW	1.3	309.0	NW	0.4	187.0	S
05:00 AM - 06:00 AM	1.2	193.0	SSW	1.3	306.0	NW	1.3	359.0	N	0.7	350.0	N	1.7	305.0	NW	1.3	310.0	NW	1.6	85.0	E
06:00 AM - 07:00 AM	2.5	354.0	N	2.0	335.0	NNW	3.0	352.0	N	1.8	357.0	N	1.8	306.0	NW	1.5	310.0	NW	2.5	189.0	S
07:00 AM - 08:00 AM	2.9	353.0	N	3.0	0.0	N	3.4	127.0	SE	1.2	359.0	N	0.9	306.0	NW	0.2	-	-	1.6	184.0	S
08:00 AM - 09:00 AM	2.8	233.0	SW	0.6	359.0	N	2.2	318.0	NW	3.6	4.0	N	1.3	158.0	SSE	1.4	294.0	WNW	4.0	2.0	N
09:00 AM - 10:00 AM	3.1	322.0	NW	3.0	316.0	NW	2.1	10.0	N	2.5	327.0	NNW	2.0	174.0	S	3.0	332.0	NNW	2.2	299.0	WNW
10:00 AM - 11:00 AM	1.3	343.0	NNW	1.7	320.0	NW	1.0	359.0	N	1.3	326.0	NW	2.0	197.0	SSW	1.8	287.0	WNW	2.1	243.0	WSW
11:00 AM - 12:00 PM	0.7	40.0	NE	1.9	228.0	SW	1.3	359.0	N	1.2	316.0	NW	1.3	359.0	N	4.0	294.0	WNW	2.0	317.0	NW
12:00 PM - 01:00 PM	1.3	359.0	N	2.9	354.0	N	1.6	7.0	N	2.7	335.0	NNW	1.5	230.0	SW	2.6	328.0	NNW	3.4	311.0	NW
01:00 PM - 02:00 PM	1.6	347.0	NNW	1.7	326.0	NW	0.6	32.0	NNE	1.9	8.0	N	1.9	237.0	WSW	2.9	173.0	S	1.3	215.0	SW
02:00 PM - 03:00 PM	1.5	285.0	WNW	1.8	331.0	NNW	2.1	251.0	WSW	1.2	256.0	WSW	2.7	352.0	N	2.7	206.0	SSW	1.5	206.0	SSW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

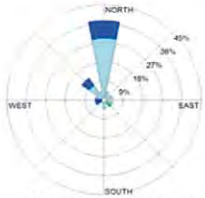
Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107662
Date Received :Sep 26, 2023
Date Reported :Oct 04, 2023
Report Number :2775717-1

Wind Rose

Date : Sep 18-19, 2023

Date : Sep 19-20, 2023



Date : Sep 20-21, 2023

Date : Sep 21-22, 2023

Date : Sep 22-23, 2023

Date : Sep 23-24, 2023

Date : Sep 24-25, 2023

Date : Sep 18-25, 2023

	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

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Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107684
Date Received :Sep 26, 2023
Date Reported :Oct 04, 2023
Report Number :2775763-1

Sample Number 23107684-1 to 7
Parameter Wind Speed / Wind Direction
Location ชุมชนบ้านโป่งสะเก็ด
Sampling Date Sep 18 - Sep 25, 2023
Sampling by Nontachai Uppathamp

Time	Sep 18 - Sep 19, 2023			Sep 19 - Sep 20, 2023			Sep 20 - Sep 21, 2023			Sep 21 - Sep 22, 2023			Sep 22 - Sep 23, 2023			Sep 23 - Sep 24, 2023			Sep 24 - Sep 25, 2023		
	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	2.0	136.0	SE	0.7	145.0	SE	1.9	359.0	N	1.3	322.0	NW	1.2	268.0	W	1.3	196.0	SSW	4.0	328.0	NNW
12:00 PM - 01:00 PM	3.4	187.0	S	1.3	333.0	NNW	2.9	17.0	NNE	1.6	338.0	NNW	2.7	47.0	NE	1.5	241.0	WSW	2.6	193.0	SSW
01:00 PM - 02:00 PM	1.3	126.0	SE	1.6	300.0	WNW	1.7	249.0	WSW	0.6	214.0	SW	1.9	267.0	W	1.9	36.0	NE	2.9	60.0	ENE
02:00 PM - 03:00 PM	1.5	135.0	SE	1.5	344.0	NNW	1.8	180.0	S	2.1	187.0	S	1.2	245.0	WSW	2.7	15.0	NNE	2.7	116.0	ESE
03:00 PM - 04:00 PM	1.5	195.0	SSW	1.5	18.0	NNE	0.7	129.0	SE	0.7	98.0	E	0.8	203.0	SSW	2.4	13.0	NNE	2.8	116.0	ESE
04:00 PM - 05:00 PM	0.7	203.0	SSW	1.1	326.0	NW	0.0	-	-	0.8	21.0	NNE	0.8	189.0	S	2.2	16.0	NNE	2.2	119.0	ESE
05:00 PM - 06:00 PM	1.0	195.0	SSW	1.4	359.0	N	1.4	193.0	SSW	0.7	119.0	ESE	0.4	190.0	S	2.8	138.0	SE	2.1	164.0	SSE
06:00 PM - 07:00 PM	0.4	195.0	SSW	0.0	-	-	0.0	-	-	0.4	169.0	S	0.2	-	-	2.8	178.0	S	3.3	178.0	S
07:00 PM - 08:00 PM	0.8	195.0	SSW	0.8	357.0	N	1.3	79.0	E	0.7	174.0	S	0.6	200.0	SSW	2.9	146.0	SE	1.6	151.0	SSE
08:00 PM - 09:00 PM	0.8	195.0	SSW	0.0	-	-	0.4	207.0	SSW	2.4	288.0	WNW	0.3	68.0	ENE	2.4	191.0	S	2.3	153.0	SSE
09:00 PM - 10:00 PM	1.2	195.0	SSW	1.6	215.0	SW	0.9	206.0	SSW	2.3	359.0	N	2.0	34.0	NE	0.3	190.0	S	0.5	184.0	S
10:00 PM - 11:00 PM	0.1	-	-	0.5	215.0	SW	0.2	-	-	0.6	87.0	E	1.0	337.0	NNW	2.8	189.0	S	0.3	182.0	S
11:00 PM - 12:00 AM	0.2	-	-	0.0	-	-	1.7	258.0	WSW	0.2	-	-	0.6	343.0	NNW	2.2	187.0	S	0.2	-	-
12:00 AM - 01:00 AM	0.7	208.0	SSW	0.7	359.0	N	1.1	300.0	WNW	0.1	-	-	0.4	186.0	S	0.5	190.0	S	0.1	-	-
01:00 AM - 02:00 AM	0.0	-	-	0.8	359.0	N	0.8	12.0	NNE	0.5	20.0	NNE	0.6	187.0	S	0.3	188.0	S	0.4	182.0	S
02:00 AM - 03:00 AM	0.2	-	-	0.8	359.0	N	1.1	321.0	NW	0.0	-	-	0.7	185.0	S	1.7	189.0	S	0.4	182.0	S
03:00 AM - 04:00 AM	0.4	202.0	SSW	0.7	340.0	NNW	0.6	330.0	NNW	0.8	359.0	N	1.3	186.0	S	0.9	188.0	S	0.5	183.0	S
04:00 AM - 05:00 AM	0.9	333.0	NNW	0.7	336.0	NNW	1.2	335.0	NNW	1.5	50.0	NE	1.4	185.0	S	1.3	189.0	S	0.4	184.0	S
05:00 AM - 06:00 AM	1.2	356.0	N	1.3	359.0	N	1.3	342.0	NNW	0.7	90.0	E	1.7	157.0	SSE	1.3	189.0	S	1.6	195.0	SSW
06:00 AM - 07:00 AM	2.5	32.0	NNE	2.0	340.0	NNW	3.0	336.0	NNW	1.8	133.0	SE	1.8	137.0	SE	1.5	140.0	SE	2.5	140.0	SE
07:00 AM - 08:00 AM	2.9	23.0	NNE	3.0	327.0	NNW	3.4	342.0	NNW	1.2	306.0	NW	0.9	136.0	SE	0.2	-	-	1.6	112.0	ESE
08:00 AM - 09:00 AM	2.8	249.0	WSW	0.6	341.0	NNW	2.2	262.0	W	3.6	21.0	NNE	1.3	132.0	SE	1.4	253.0	WSW	1.0	68.0	ENE
09:00 AM - 10:00 AM	3.1	6.0	N	3.0	359.0	N	2.1	338.0	NNW	2.5	344.0	NNW	2.0	137.0	SE	3.0	117.0	ESE	0.9	75.0	ENE
10:00 AM - 11:00 AM	1.3	339.0	NNW	1.7	344.0	NNW	1.0	234.0	SW	1.3	359.0	N	2.0	226.0	SW	1.8	216.0	SW	2.1	81.0	E

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont
Assistant General Manager

Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107684
Date Received :Sep 26, 2023
Date Reported :Oct 04, 2023
Report Number :2775763-1

Wind Rose

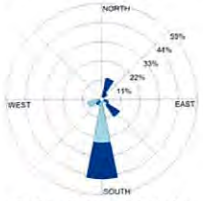
Date : Sep 18-19, 2023

Date : Sep 19-20, 2023

Date : Sep 20-21, 2023

Date : Sep 21-22, 2023

Date : Sep 22-23, 2023



Date : Sep 23-24, 2023

Date : Sep 24-25, 2023

Date : Sep 18-25, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	2.98
1.7-3.3	30.36
0.3-1.7	56.55
Calms	10.12

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Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107685
Date Received :Sep 26, 2023
Date Reported :Oct 04, 2023
Report Number :2775765-1

Sample Number 23107685-1 to 7
Parameter Wind Speed / Wind Direction
Location โรงเรียนสวนกุหลาบฯ
Sampling Date Sep 18 - Sep 25, 2023
Sampling by Nontachai Uppathamp

Time	Sep 18 - Sep 19, 2023			Sep 19 - Sep 20, 2023			Sep 20 - Sep 21, 2023			Sep 21 - Sep 22, 2023			Sep 22 - Sep 23, 2023			Sep 23 - Sep 24, 2023			Sep 24 - Sep 25, 2023		
	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	2.0	208.0	SSW	1.6	344.0	NNW	1.9	344.0	NNW	1.9	142.0	SE	1.1	320.0	NW	2.1	221.0	SW	0.9	325.0	NW
01:00 PM - 02:00 PM	1.5	191.0	S	1.2	346.0	NNW	1.8	259.0	W	1.4	179.0	S	1.6	325.0	NW	3.6	117.0	ESE	3.4	212.0	SSW
02:00 PM - 03:00 PM	0.7	317.0	NW	1.4	268.0	W	2.8	337.0	NNW	1.1	343.0	NNW	2.0	256.0	WSW	1.8	351.0	N	2.1	188.0	S
03:00 PM - 04:00 PM	1.7	208.0	SSW	0.9	350.0	N	2.0	247.0	WSW	1.5	258.0	WSW	3.9	227.0	SW	2.2	49.0	NE	4.2	259.0	W
04:00 PM - 05:00 PM	0.9	113.0	ESE	1.0	2.0	N	3.5	100.0	E	2.9	67.0	ENE	1.3	266.0	W	3.5	338.0	NNW	1.6	82.0	E
05:00 PM - 06:00 PM	0.5	138.0	SE	3.0	340.0	NNW	2.8	49.0	NE	2.4	52.0	NE	1.4	231.0	SW	1.1	188.0	S	0.9	46.0	NE
06:00 PM - 07:00 PM	0.0	-	-	2.9	346.0	NNW	3.6	139.0	SE	0.6	0.0	N	0.7	225.0	SW	1.8	148.0	SSE	3.0	70.0	ENE
07:00 PM - 08:00 PM	1.9	211.0	SSW	2.1	347.0	NNW	1.8	111.0	ESE	0.7	131.0	SE	0.4	219.0	SW	1.1	94.0	E	2.0	70.0	ENE
08:00 PM - 09:00 PM	1.0	219.0	SW	1.3	347.0	NNW	1.4	116.0	ESE	0.6	89.0	E	0.3	26.0	NNE	1.6	191.0	S	2.4	53.0	NE
09:00 PM - 10:00 PM	1.4	94.0	E	0.8	347.0	NNW	0.2	-	-	2.3	338.0	NNW	0.9	49.0	NE	1.0	134.0	SE	1.9	117.0	ESE
10:00 PM - 11:00 PM	1.8	101.0	E	1.7	347.0	NNW	0.3	116.0	ESE	0.8	261.0	W	0.2	-	-	1.0	131.0	SE	0.7	87.0	E
11:00 PM - 12:00 AM	1.9	91.0	E	1.4	218.0	SW	0.0	-	-	0.0	-	-	1.9	223.0	SW	0.7	131.0	SE	0.1	-	-
12:00 AM - 01:00 AM	0.0	-	-	0.3	218.0	SW	0.0	-	-	0.5	288.0	WNW	0.3	207.0	SSW	0.5	131.0	SE	0.3	87.0	E
01:00 AM - 02:00 AM	0.2	-	-	0.0	-	-	0.1	-	-	0.1	-	-	0.3	283.0	WNW	0.0	-	-	0.3	85.0	E
02:00 AM - 03:00 AM	0.3	99.0	E	0.0	-	-	0.0	-	-	0.2	-	-	0.0	-	-	0.3	131.0	SE	0.1	-	-
03:00 AM - 04:00 AM	0.2	-	-	0.0	-	-	0.2	-	-	0.8	284.0	WNW	0.4	283.0	WNW	1.0	131.0	SE	0.0	-	-
04:00 AM - 05:00 AM	0.2	-	-	0.0	-	-	0.0	-	-	0.2	-	-	0.4	283.0	WNW	1.3	50.0	NE	0.0	-	-
05:00 AM - 06:00 AM	0.4	99.0	E	0.2	-	-	0.1	-	-	0.1	-	-	0.1	-	-	0.3	50.0	NE	0.0	-	-
06:00 AM - 07:00 AM	0.4	93.0	E	0.3	268.0	W	0.0	-	-	0.3	63.0	ENE	0.0	-	-	2.0	50.0	NE	0.0	-	-
07:00 AM - 08:00 AM	0.0	-	-	0.0	-	-	0.0	-	-	1.9	53.0	NE	0.3	359.0	N	0.0	-	-	0.2	-	-
08:00 AM - 09:00 AM	0.0	-	-	0.1	-	-	0.4	326.0	NW	0.5	201.0	SSW	0.1	-	-	0.1	-	-	0.5	221.0	SW
09:00 AM - 10:00 AM	1.9	339.0	NNW	0.7	347.0	NNW	0.3	335.0	NNW	0.4	239.0	WSW	1.0	147.0	SSE	2.3	233.0	SW	0.1	-	-
10:00 AM - 11:00 AM	2.1	223.0	SW	2.4	267.0	W	0.5	240.0	WSW	2.1	166.0	SSE	2.9	175.0	S	2.6	252.0	WSW	0.6	312.0	NW
11:00 AM - 12:00 PM	2.1	247.0	WSW	3.2	359.0	N	0.1	-	-	1.4	148.0	SSE	3.8	180.0	S	3.5	282.0	WNW	0.5	288.0	WNW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107685
Date Received :Sep 26, 2023
Date Reported :Oct 04, 2023
Report Number :2775765-1

Wind Rose

Date : Sep 18-19, 2023

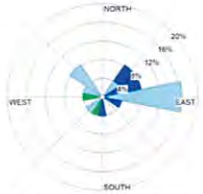
Date : Sep 19-20, 2023

Date : Sep 20-21, 2023

Date : Sep 21-22, 2023

Date : Sep 22-23, 2023

Date : Sep 23-24, 2023



Date : Sep 24-25, 2023

Date : Sep 18-25, 2023

WS(m/s)	%
≥ 10.0	0.00
8.0-10.0	0.00
5.5-8.0	0.00
3.3-5.5	5.36
1.7-3.3	24.41
0.3-1.7	42.86
Calms	27.38

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Approved by

Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107687
Date Received :Sep 26, 2023
Date Reported :Oct 04, 2023
Report Number :2775772-1

Sample Number 23107687-1 to 7
Parameter Wind Speed / Wind Direction
Location บ้านห่วยปราบ (ซอยห้างแก้ว)
Sampling Date Sep 18 - Sep 25, 2023
Sampling by Nontachai Uppathamp

Time	Sep 18 - Sep 19, 2023			Sep 19 - Sep 20, 2023			Sep 20 - Sep 21, 2023			Sep 21 - Sep 22, 2023			Sep 22 - Sep 23, 2023			Sep 23 - Sep 24, 2023			Sep 24 - Sep 25, 2023		
	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)	
01:00 PM - 02:00 PM	0.5	80.0	E	0.6	337.0	NNW	0.8	145.0	SE	1.9	221.0	SW	1.8	211.0	SSW	1.9	330.0	NNW	1.0	301.0	WNW
02:00 PM - 03:00 PM	1.6	122.0	ESE	1.9	24.0	NNE	1.7	180.0	S	0.9	208.0	SSW	0.9	215.0	SW	0.1	-	-	2.0	23.0	NNE
03:00 PM - 04:00 PM	0.6	121.0	ESE	0.1	-	-	0.9	114.0	ESE	1.5	14.0	NNE	1.1	194.0	SSW	2.8	310.0	NW	1.3	17.0	NNE
04:00 PM - 05:00 PM	0.3	144.0	SE	1.0	292.0	WNW	1.8	20.0	NNE	0.9	30.0	NNE	2.3	185.0	S	3.0	324.0	NW	0.5	151.0	SSE
05:00 PM - 06:00 PM	0.7	176.0	S	0.1	-	-	0.7	172.0	S	1.5	31.0	NNE	1.6	170.0	S	3.4	39.0	NE	0.6	196.0	SSW
06:00 PM - 07:00 PM	1.2	142.0	SE	0.5	242.0	WSW	1.5	178.0	S	1.2	99.0	E	2.5	165.0	SSE	1.6	152.0	SSE	0.4	189.0	S
07:00 PM - 08:00 PM	0.7	111.0	ESE	0.4	241.0	WSW	1.0	37.0	NE	1.0	344.0	NNW	2.4	35.0	NE	2.8	8.0	N	0.2	-	-
08:00 PM - 09:00 PM	0.1	-	-	0.1	-	-	0.6	27.0	NNE	0.2	-	-	3.0	26.0	NNE	3.0	118.0	ESE	0.1	-	-
09:00 PM - 10:00 PM	0.2	-	-	0.3	156.0	SSE	1.5	15.0	NNE	0.8	215.0	SW	4.2	0.0	N	1.2	122.0	ESE	0.5	115.0	ESE
10:00 PM - 11:00 PM	0.3	103.0	ESE	0.2	-	-	0.6	235.0	SW	0.6	219.0	SW	1.6	247.0	WSW	1.6	120.0	ESE	0.6	10.0	N
11:00 PM - 12:00 AM	0.4	117.0	ESE	0.2	-	-	0.8	334.0	NNW	0.2	-	-	1.4	245.0	WSW	0.8	115.0	ESE	1.2	358.0	N
12:00 AM - 01:00 AM	0.1	-	-	0.1	-	-	0.3	243.0	WSW	0.4	247.0	WSW	2.3	182.0	S	1.2	305.0	NW	0.8	264.0	W
01:00 AM - 02:00 AM	0.2	-	-	0.3	188.0	S	0.1	-	-	0.0	-	-	0.5	247.0	WSW	1.4	306.0	NW	0.8	260.0	W
02:00 AM - 03:00 AM	0.1	-	-	0.2	-	-	0.3	30.0	NNE	0.3	318.0	NW	0.8	2.0	N	0.6	311.0	NW	1.2	17.0	NNE
03:00 AM - 04:00 AM	0.1	-	-	0.1	-	-	0.2	-	-	0.4	358.0	N	0.4	221.0	SW	0.5	324.0	NW	0.9	10.0	N
04:00 AM - 05:00 AM	0.1	-	-	0.5	233.0	SW	0.4	310.0	NW	0.1	-	-	1.0	1.0	N	0.1	-	-	0.4	8.0	N
05:00 AM - 06:00 AM	0.1	-	-	0.6	358.0	N	0.1	-	-	0.2	-	-	0.6	343.0	NNW	0.2	-	-	0.6	9.0	N
06:00 AM - 07:00 AM	0.2	-	-	0.2	-	-	0.0	-	-	0.2	-	-	0.4	43.0	NE	0.3	149.0	SSE	1.7	149.0	SSE
07:00 AM - 08:00 AM	1.0	292.0	WNW	1.0	349.0	N	0.3	234.0	SW	0.9	165.0	SSE	0.8	132.0	SE	0.4	176.0	S	0.5	232.0	SW
08:00 AM - 09:00 AM	0.1	-	-	0.9	247.0	WSW	0.7	275.0	W	1.2	190.0	S	1.4	116.0	ESE	0.2	-	-	0.2	-	-
09:00 AM - 10:00 AM	0.1	-	-	0.4	243.0	WSW	0.6	226.0	SW	1.0	222.0	SW	2.7	215.0	SW	1.2	241.0	WSW	0.4	232.0	SW
10:00 AM - 11:00 AM	0.2	-	-	0.8	306.0	NW	1.2	311.0	NW	0.5	239.0	WSW	1.1	185.0	S	1.6	170.0	S	0.1	-	-
11:00 AM - 12:00 PM	0.3	336.0	NNW	0.6	339.0	NNW	1.0	247.0	WSW	0.3	25.0	NNE	0.1	-	-	2.0	271.0	W	0.6	241.0	WSW
12:00 PM - 01:00 PM	1.0	239.0	WSW	1.8	350.0	N	1.1	268.0	W	1.0	174.0	S	1.7	220.0	SW	1.1	84.0	E	0.2	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107687
Date Received :Sep 26, 2023
Date Reported :Oct 04, 2023
Report Number :2775772-1

Wind Rose

Date : Sep 18-19, 2023

Date : Sep 19-20, 2023

Date : Sep 20-21, 2023

Date : Sep 21-22, 2023

Date : Sep 22-23, 2023

Date : Sep 23-24, 2023

Date : Sep 24-25, 2023

Date : Sep 18-25, 2023

	WS(m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.00
	3.3-5.5	1.19
	1.7-3.3	12.50
	0.3-1.7	61.91
	Calms	24.40

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Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107663
Date Received :Sep 26, 2023
Date Reported :Oct 04, 2023
Report Number :2775719-1

Sample Number 23107663-1 to 7
Parameter Wind Speed / Wind Direction
Location โรงเรียนบ้านภูไทร
Sampling Date Sep 18 - Sep 25, 2023
Sampling by Nontachai Uppathamp

Time	Sep 18 - Sep 19, 2023			Sep 19 - Sep 20, 2023			Sep 20 - Sep 21, 2023			Sep 21 - Sep 22, 2023			Sep 22 - Sep 23, 2023			Sep 23 - Sep 24, 2023			Sep 24 - Sep 25, 2023		
	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	10.0	N	2.2	300.0	WNW	3.0	74.0	ENE	0.9	297.0	WNW	0.6	183.0	S	0.5	247.0	WSW	0.5	230.0	SW
11:00 AM - 12:00 PM	1.3	160.0	SSE	3.2	67.0	ENE	0.3	0.0	N	2.3	343.0	NNW	0.5	282.0	WNW	0.4	231.0	SW	1.1	264.0	W
12:00 PM - 01:00 PM	2.5	196.0	SSW	1.2	272.0	W	2.0	291.0	WNW	1.5	300.0	WNW	0.7	256.0	WSW	0.7	171.0	S	1.1	138.0	SE
01:00 PM - 02:00 PM	2.5	148.0	SSE	1.0	317.0	NW	0.8	213.0	SSW	2.3	196.0	SSW	0.9	296.0	WNW	0.5	20.0	NNE	0.5	298.0	WNW
02:00 PM - 03:00 PM	3.1	154.0	SSE	1.2	18.0	NNE	0.3	217.0	SW	2.6	147.0	SSE	0.8	293.0	WNW	1.5	19.0	NNE	1.6	162.0	SSE
03:00 PM - 04:00 PM	1.9	151.0	SSE	0.3	6.0	N	1.4	18.0	NNE	0.7	0.0	N	1.5	232.0	SW	1.1	68.0	ENE	1.9	162.0	SSE
04:00 PM - 05:00 PM	2.9	221.0	SW	1.6	351.0	N	1.0	11.0	N	1.5	69.0	ENE	2.1	328.0	NNW	1.2	9.0	N	1.1	162.0	SSE
05:00 PM - 06:00 PM	1.8	238.0	WSW	1.1	354.0	N	1.0	314.0	NW	1.1	12.0	NNE	1.2	235.0	SW	1.5	135.0	SE	2.4	162.0	SSE
06:00 PM - 07:00 PM	2.1	157.0	SSE	1.1	329.0	NNW	1.7	117.0	ESE	1.3	149.0	SSE	1.1	211.0	SSW	1.1	135.0	SE	1.3	162.0	SSE
07:00 PM - 08:00 PM	1.1	157.0	SSE	0.8	329.0	NNW	1.9	0.0	N	2.5	349.0	N	0.5	34.0	NE	1.3	134.0	SE	1.0	162.0	SSE
08:00 PM - 09:00 PM	1.5	157.0	SSE	0.8	239.0	WSW	0.8	317.0	NW	0.9	338.0	NNW	0.6	53.0	NE	2.5	134.0	SE	0.9	162.0	SSE
09:00 PM - 10:00 PM	0.5	157.0	SSE	0.9	239.0	WSW	0.5	256.0	WSW	0.7	307.0	NW	0.8	11.0	N	0.5	134.0	SE	1.4	162.0	SSE
10:00 PM - 11:00 PM	0.8	157.0	SSE	0.5	320.0	NW	1.0	343.0	NNW	0.6	310.0	NW	0.5	0.0	N	1.5	134.0	SE	1.9	162.0	SSE
11:00 PM - 12:00 AM	0.6	157.0	SSE	0.7	328.0	NNW	1.2	330.0	NNW	1.3	331.0	NNW	0.8	0.0	N	0.7	134.0	SE	1.3	162.0	SSE
12:00 AM - 01:00 AM	0.4	158.0	SSE	0.4	2.0	N	0.5	155.0	SSE	0.8	317.0	NW	0.8	235.0	SW	0.9	134.0	SE	1.0	162.0	SSE
01:00 AM - 02:00 AM	0.7	158.0	SSE	0.5	2.0	N	0.6	181.0	S	0.5	338.0	NNW	0.9	323.0	NW	0.5	134.0	SE	0.6	313.0	NW
02:00 AM - 03:00 AM	0.6	158.0	SSE	0.6	324.0	NW	0.8	351.0	N	0.6	37.0	NE	0.9	323.0	NW	0.4	332.0	NNW	0.9	313.0	NW
03:00 AM - 04:00 AM	0.8	158.0	SSE	0.7	322.0	NW	0.7	321.0	NW	1.0	4.0	N	0.7	0.0	N	0.8	3.0	N	1.1	313.0	NW
04:00 AM - 05:00 AM	0.5	6.0	N	0.4	322.0	NW	1.1	29.0	NNE	0.9	11.0	N	0.9	0.0	N	0.7	3.0	N	0.6	314.0	NW
05:00 AM - 06:00 AM	0.9	60.0	ENE	0.5	332.0	NNW	1.5	359.0	N	1.4	359.0	N	1.2	348.0	NNW	1.3	345.0	NNW	0.5	102.0	ESE
06:00 AM - 07:00 AM	1.5	30.0	NNE	1.9	51.0	NE	1.3	56.0	NE	0.5	64.0	ENE	0.5	228.0	SW	1.1	35.0	NE	0.7	138.0	SE
07:00 AM - 08:00 AM	1.4	316.0	NW	1.4	17.0	NNE	0.8	328.0	NNW	0.6	73.0	ENE	0.6	51.0	NE	0.6	178.0	S	0.5	174.0	S
08:00 AM - 09:00 AM	3.5	60.0	ENE	0.8	43.0	NE	0.6	312.0	NW	1.1	178.0	S	0.4	225.0	SW	0.6	309.0	NW	0.9	132.0	SE
09:00 AM - 10:00 AM	2.1	321.0	NW	1.7	41.0	NE	0.5	318.0	NW	1.3	14.0	NNE	0.8	227.0	SW	1.0	212.0	SSW	1.3	112.0	ESE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont
Assistant General Manager

ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107663
Date Received :Sep 26, 2023
Date Reported :Oct 04, 2023
Report Number :2775719-1

Wind Rose

Date : Sep 18-19, 2023 | Date : Sep 19-20, 2023 | Date : Sep 20-21, 2023

Date : Sep 21-22, 2023 | Date : Sep 22-23, 2023 | Date : Sep 23-24, 2023

Date : Sep 24-25, 2023 | Date : Sep 18-25, 2023

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	15.48
0.3-1.7	83.93
Calms	0.00

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Assistant General Manager

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ภาคผนวก ค-4

คุณภาพน้ำทิ้ง

Analysis / Test Report

TESTING
No.0042

Lot ID: 2370828

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Date Received : Jul 17, 2023
Date Reported : Jul 24, 2023
Report Number : 2689245-1

Sample Number	2370828-1
Sampled Date	Jul 17, 2023 10:10 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้งของโครงการ ABPR1
Date Analysis Commenced	Jul 17, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	40	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.7	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.3	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	31.8	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1000	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Wanlop Hunchainaow ทะเบียนเลขที่ ว-323-จ-9457

Remark :
- LOD : Limit of Detection

Technical Management
Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

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

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Analysis / Test Report
TESTING
No.0042
Lot ID: 2370828
Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :
Date Received : Jul 17, 2023
Date Reported : Jul 24, 2023
Report Number : 2689245-1

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

Technical Management
Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445
Approved by
Dej Changchon
Senior Manager
ทะเบียนเลขที่ ว-323-ค-9442
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9773-41 S:\Reports_All_GL.rpt (4:32PM)

Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 2370828
Date Received : Jul 17, 2023
Date Reported : Jul 24, 2023
Report Number : 2689245-2

Sample Number	2370828-1
Sampled Date	Jul 17, 2023 10:10 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้งของโครงการ ABPR1
Date Analysis Commenced	Jul 17, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	0.025	No Standard	Flow meter	Rayong

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

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

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
Narumon Banchongkit
Supervisor

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

Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 2382559
Date Received : Aug 07, 2023
Date Reported : Aug 15, 2023
Report Number : 2718101-1

Sample Number	2382559-1
Sampled Date	Aug 07, 2023 9:50 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้งของโครงการ ABPR1
Date Analysis Commenced	Aug 07, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	43	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	31.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1640	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

Remark :
- LOD : Limit of Detection

Technical Management
Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

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

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

Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 2382559
Date Received : Aug 07, 2023
Date Reported : Aug 15, 2023
Report Number : 2718101-1

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

Technical Management

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-ค-9445

Approved by

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

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 2382559
Date Received : Aug 07, 2023
Date Reported : Aug 15, 2023
Report Number : 2718101-2

Sample Number	2382559-1
Sampled Date	Aug 07, 2023 9:50 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้งของโครงการ ABPR1
Date Analysis Commenced	Aug 07, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	0.024	No Standard	Flow meter, Analyzed by Client	Rayong

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

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

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Approved by

Narumon Banchongkit
Supervisor

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23102654
Date Received : Sep 11, 2023
Date Reported : Sep 18, 2023
Report Number : 2762911-1

Sample Number	23102654-1
Sampled Date	Sep 11, 2023 9:40 AM
Sample Description	Wastewater
Location	ปล่อยน้ำทิ้งของโครงการ ABPR1
Date Analysis Commenced	Sep 11, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	48	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.8	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	29.5	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2320	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paranuet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

Remark :
- LOD : Limit of Detection

Technical Management
Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

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

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23102654
Date Received : Sep 11, 2023
Date Reported : Sep 18, 2023
Report Number : 2762911-1

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

Technical Management
Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

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

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9773-41 S:\Reports_All_GL.rpt (12:49PM)

Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23102654
Date Received : Sep 11, 2023
Date Reported : Sep 18, 2023
Report Number : 2762911-2

Sample Number	23102654-1
Sampled Date	Sep 11, 2023 9:40 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้งของโครงการ ABPR1
Date Analysis Commenced	Sep 11, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	0.024	No Standard	Flow meter, Analyzed by Client	Rayong

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

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

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23110987
Date Received : Oct 09, 2023
Date Reported : Oct 17, 2023
Report Number : 2785599-1

Sample Number	23110987-1
Sampled Date	Oct 09, 2023 11:20 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้งของโครงการ ABPR1
Date Analysis Commenced	Oct 09, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	40	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.5	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	32.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2240	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

Remark :
- LOD : Limit of Detection

Technical Management
Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

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

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23110987
Date Received : Oct 09, 2023
Date Reported : Oct 17, 2023
Report Number : 2785599-1

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

Technical Management

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-ค-9445

Approved by

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

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

Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23110987
Date Received : Oct 09, 2023
Date Reported : Oct 17, 2023
Report Number : 2785599-2

Sample Number	23110987-1
Sampled Date	Oct 09, 2023 11:20 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้งของโครงการ ABPR1
Date Analysis Commenced	Oct 09, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	0.025	No Standard	Flow meter, Analyzed by Client	Rayong

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

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

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Approved by

Narumon Banchongkit
Supervisor

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

Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location:

Lot ID: 23122466
Date Received : Nov 13, 2023
Date Reported : Nov 20, 2023
Report Number : 2812550-1

Sample Number	23122466-1
Sampled Date	Nov 13, 2023 9:55 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้งของโครงการ ABPR1
Date Analysis Commenced	Nov 13, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	53	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.9	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	32.1	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2420	≤3000	Standard Methods for the Examinabon of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

Remark :

Technical Management — Narumon Banchongkit, Supervisor, ทะเบียนเลขที่ ว-323-จ-9445

Approved by — Dej Changchon, Senior Manager, ทะเบียนเลขที่ ว-323-ค-9442

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

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

Analysis / Test Report
TESTING
No.0042
Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location:
Lot ID: 23122466
Date Received : Nov 13, 2023
Date Reported : Nov 20, 2023
Report Number : 2812550-1

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

Technical Management — Narumon Banchongkit, Supervisor, ทะเบียนเลขที่ ว-323-จ-9445
Approved by — Dej Changchon, Senior Manager, ทะเบียนเลขที่ ว-323-ค-9442
Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. No part of this report may be reproduced in any form without written consent from the laboratory. ALS Laboratory Group (Thailand) strongly recommends that this report is not reproduced except in full.
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Life Sciences www.alsglobal.com
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9773-41 S:\Reports_All_GL.rpt (1.19PM)

Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location:

Lot ID: 23122466
Date Received : Nov 13, 2023
Date Reported : Nov 20, 2023
Report Number : 2812550-2

Sample Number	23122466-1
Sampled Date	Nov 13, 2023 9:55 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้งของโครงการ ABPR1
Date Analysis Commenced	Nov 13, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	0.024	No Standard	Flow meter, Analyzed by Client	Rayong

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

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

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

Approved by
Narumon Banchongkit
Supervisor

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location:

Lot ID: 23134723
Date Received : Dec 11, 2023
Date Reported : Dec 18, 2023
Report Number : 2840118-1

Sample Number	23134723-1
Sampled Date	Dec 11, 2023 9:50 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้งของโครงการ ABPR1
Date Analysis Commenced	Dec 11, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
BOD (5 days at 20 Degree C)	mg/L	-	2.0	<2.0	≤500	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5210 B, part 4500 - O G	Rayong
COD	mg/L	1.5	25	51	≤750	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5220 D	Rayong
Oil & Grease *	mg/L	-	3	<3	≤10	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 5520 B	Rayong
pH at 25 degree C *		-	-	7.4	5.5-9.0	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500 - H (B)	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.2	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-Cl (F)	Rayong
Temperature *	Degree C	-	-	30.6	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2200	≤3000	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	6	≤200	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2540 D	Rayong

Guideline : Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant
Sampling By : Paramet Sattayakun ทะเบียนเลขที่ ว-323-จ-9476

Remark :

Technical Management
Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-จ-9445

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

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

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23134723
Date Received : Dec 11, 2023
Date Reported : Dec 18, 2023
Report Number : 2840118-1

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

Technical Management

Narumon Banchongkit
Supervisor
ทะเบียนเลขที่ ว-323-ก-9445

Approved by

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

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

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23134723
Date Received : Dec 11, 2023
Date Reported : Dec 18, 2023
Report Number : 2840118-2

Sample Number	23134723-1
Sampled Date	Dec 11, 2023 9:50 AM
Sample Description	Wastewater
Location	บ่อพักน้ำทิ้งของโครงการ ABPR1
Date Analysis Commenced	Dec 11, 2023
Condition of Sample	Contained in one amber glass bottle and three plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m3/s	-	-	0.025	No Standard	Flow meter	Rayong

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

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

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

Approved by

Narumon Banchongkit
Supervisor

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ภาคผนวก ค-5

ระดับเสียงในบรรยากาศ

Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107694
Date Received : Sep 25, 2023
Date Reported : Sep 29, 2023
Report Number: 2790208-1

Sample Number	23107694-1
Parameter	Noise (Leq 24 hrs.)
Location	รั้วโครงการ ทางด้านทิศตะวันออก
Measurement Date	Sep 18 - Sep 19, 2023
Measurement by	Nattakarn Vonginyoo
Sound Level meter	Serial No. 1222716

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	58.3	86.8	54.1
12:00 PM - 01:00 PM	63.0	87.4	54.6
01:00 PM - 02:00 PM	60.2	90.0	56.0
02:00 PM - 03:00 PM	59.2	84.8	56.9
03:00 PM - 04:00 PM	60.3	87.6	56.8
04:00 PM - 05:00 PM	59.2	83.7	54.9
05:00 PM - 06:00 PM	58.5	76.8	54.7
06:00 PM - 07:00 PM	59.4	76.6	55.5
07:00 PM - 08:00 PM	56.6	74.8	52.8
08:00 PM - 09:00 PM	55.2	73.7	52.4
09:00 PM - 10:00 PM	56.1	74.7	52.8
10:00 PM - 11:00 PM	55.6	74.5	52.7
11:00 PM - 12:00 AM	56.4	73.9	52.7
12:00 AM - 01:00 AM	55.4	74.2	51.4
01:00 AM - 02:00 AM	55.1	74.0	51.4
02:00 AM - 03:00 AM	54.6	73.2	51.4
03:00 AM - 04:00 AM	57.0	75.1	52.5
04:00 AM - 05:00 AM	60.2	74.8	55.0
05:00 AM - 06:00 AM	62.3	87.9	55.7
06:00 AM - 07:00 AM	56.4	81.9	53.3
07:00 AM - 08:00 AM	56.5	77.0	53.3
08:00 AM - 09:00 AM	62.1	85.1	53.4
09:00 AM - 10:00 AM	64.3	75.1	54.3
10:00 AM - 11:00 AM	59.0	78.9	54.0
Leq Average 24 hrs. (dB(A))	59.3		
Lmax (dB(A))		90.0	
L90 (dB(A))			53.4
Ldn (dB(A))	64.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark . The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Thanita K.
Thanita Kulsuriwong
Scientist (4)

Approved by Supt S.
Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107694
Date Received : Sep 25, 2023
Date Reported : Sep 29, 2023
Report Number: 2790209-1

Sample Number	23107694-2
Parameter	Noise (Leq 24 hrs.)
Location	รั้วโครงการ ทางด้านทิศตะวันออก
Measurement Date	Sep 19 - Sep 20, 2023
Measurement by	Nattakarn Vonginyoo
Sound Level meter	Serial No. 1222716

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	57.5	72.1	53.5
12:00 PM - 01:00 PM	62.7	86.3	52.9
01:00 PM - 02:00 PM	56.2	82.6	53.1
02:00 PM - 03:00 PM	60.8	79.7	53.5
03:00 PM - 04:00 PM	56.1	75.8	53.5
04:00 PM - 05:00 PM	55.3	74.6	51.8
05:00 PM - 06:00 PM	55.9	72.8	51.7
06:00 PM - 07:00 PM	57.8	73.3	52.8
07:00 PM - 08:00 PM	54.5	73.5	51.4
08:00 PM - 09:00 PM	56.9	82.1	51.5
09:00 PM - 10:00 PM	55.0	74.4	51.8
10:00 PM - 11:00 PM	55.0	74.7	51.9
11:00 PM - 12:00 AM	56.0	74.3	52.1
12:00 AM - 01:00 AM	54.7	74.7	51.3
01:00 AM - 02:00 AM	54.2	74.0	50.9
02:00 AM - 03:00 AM	54.6	74.5	51.2
03:00 AM - 04:00 AM	55.6	73.6	51.8
04:00 AM - 05:00 AM	58.5	76.2	54.5
05:00 AM - 06:00 AM	62.0	88.4	54.9
06:00 AM - 07:00 AM	55.6	77.9	53.1
07:00 AM - 08:00 AM	57.9	84.3	54.0
08:00 AM - 09:00 AM	57.1	84.3	53.7
09:00 AM - 10:00 AM	58.0	81.8	54.5
10:00 AM - 11:00 AM	56.1	80.2	53.9
Leq Average 24 hrs. (dB(A))	57.5		
Lmax (dB(A))		88.4	
L90 (dB(A))			52.8
Ldn (dB(A))	63.6		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark . The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Thanita K.
Thanita Kulsuriwong
Scientist (4)

Approved by Supt S.
Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107694
Date Received : Sep 25, 2023
Date Reported : Sep 29, 2023
Report Number: 2790210-1

Sample Number	23107694-3
Parameter	Noise (Leq 24 hrs.)
Location	รับร้วโครงการ ทางด้านทิศตะวันออก
Measurement Date	Sep 20 - Sep 21, 2023
Measurement by	Nattakarn Vonginyoo
Sound Level meter	Serial No. 1222716

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	60.2	91.1	53.5
12:00 PM - 01:00 PM	55.9	75.4	52.8
01:00 PM - 02:00 PM	60.3	84.6	54.7
02:00 PM - 03:00 PM	58.1	80.7	55.3
03:00 PM - 04:00 PM	63.0	88.1	55.8
04:00 PM - 05:00 PM	57.5	76.9	54.0
05:00 PM - 06:00 PM	64.4	79.3	56.7
06:00 PM - 07:00 PM	59.7	81.6	54.4
07:00 PM - 08:00 PM	56.4	74.0	54.0
08:00 PM - 09:00 PM	56.1	74.1	53.1
09:00 PM - 10:00 PM	56.2	74.1	53.2
10:00 PM - 11:00 PM	55.8	73.9	53.4
11:00 PM - 12:00 AM	56.6	75.8	53.7
12:00 AM - 01:00 AM	55.7	75.7	52.9
01:00 AM - 02:00 AM	54.9	74.1	51.9
02:00 AM - 03:00 AM	54.9	74.2	52.1
03:00 AM - 04:00 AM	55.8	76.7	52.5
04:00 AM - 05:00 AM	60.7	76.1	55.7
05:00 AM - 06:00 AM	63.2	88.2	55.2
06:00 AM - 07:00 AM	56.0	75.4	53.6
07:00 AM - 08:00 AM	57.5	75.1	54.4
08:00 AM - 09:00 AM	58.8	86.7	53.9
09:00 AM - 10:00 AM	58.9	84.1	54.1
10:00 AM - 11:00 AM	58.0	85.0	54.1
Leq Average 24 hrs. (dB(A))	59.0		
Lmax (dB(A))		91.1	
L90 (dB(A))			53.9
Ldn (dB(A))	64.8		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Thanita K.
Thanita Kulsunwong
Scientist (4)

Approved by Supt S.
Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107694
Date Received : Sep 25, 2023
Date Reported : Sep 29, 2023
Report Number: 2790211-1

Sample Number	23107694-4
Parameter	Noise (Leq 24 hrs.)
Location	รับร้วโครงการ ทางด้านทิศตะวันออก
Measurement Date	Sep 21 - Sep 22, 2023
Measurement by	Nattakarn Vonginyoo
Sound Level meter	Serial No. 1222716

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	57.8	83.3	53.8
12:00 PM - 01:00 PM	55.9	71.5	53.8
01:00 PM - 02:00 PM	57.9	84.3	54.2
02:00 PM - 03:00 PM	60.1	83.2	54.5
03:00 PM - 04:00 PM	79.7	112.5	59.0
04:00 PM - 05:00 PM	73.7	89.9	62.7
05:00 PM - 06:00 PM	69.3	87.8	62.5
06:00 PM - 07:00 PM	62.2	76.5	58.8
07:00 PM - 08:00 PM	60.5	75.4	57.5
08:00 PM - 09:00 PM	58.9	74.1	54.9
09:00 PM - 10:00 PM	56.5	73.4	54.1
10:00 PM - 11:00 PM	57.2	74.6	54.3
11:00 PM - 12:00 AM	56.1	74.7	53.5
12:00 AM - 01:00 AM	55.1	74.4	52.4
01:00 AM - 02:00 AM	54.8	74.6	52.1
02:00 AM - 03:00 AM	54.8	73.3	52.2
03:00 AM - 04:00 AM	57.4	74.5	53.2
04:00 AM - 05:00 AM	61.3	75.7	57.4
05:00 AM - 06:00 AM	61.8	88.7	54.9
06:00 AM - 07:00 AM	55.9	78.6	53.3
07:00 AM - 08:00 AM	58.5	82.8	54.1
08:00 AM - 09:00 AM	57.9	83.6	54.6
09:00 AM - 10:00 AM	57.2	78.5	53.6
10:00 AM - 11:00 AM	56.2	72.0	53.8
Leq Average 24 hrs. (dB(A))	67.7		
Lmax (dB(A))		112.5	
L90 (dB(A))			54.1
Ldn (dB(A))	69.0		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Thanita K.
Thanita Kulsunwong
Scientist (4)

Approved by Supt S.
Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107694
Date Received : Sep 25, 2023
Date Reported : Sep 29, 2023
Report Number: 2790212-1

Sample Number	23107694-S
Parameter	Noise (Leq 24 hrs.)
Location	รันรั้วโครงการ ทางด้านทิศตะวันออก
Measurement Date	Sep 22 - Sep 23, 2023
Measurement by	Nattakarn Vonginyoo
Sound Level meter	Serial No. 1222716

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
11:00 AM - 12:00 PM	56.1	74.2	53.3
12:00 PM - 01:00 PM	64.1	88.2	52.9
01:00 PM - 02:00 PM	56.5	83.6	53.1
02:00 PM - 03:00 PM	59.4	82.7	54.4
03:00 PM - 04:00 PM	66.0	80.9	56.1
04:00 PM - 05:00 PM	70.7	85.9	59.4
05:00 PM - 06:00 PM	74.7	89.6	67.3
06:00 PM - 07:00 PM	77.0	89.4	64.5
07:00 PM - 08:00 PM	78.3	90.2	67.7
08:00 PM - 09:00 PM	78.9	91.8	67.9
09:00 PM - 10:00 PM	62.4	81.5	53.2
10:00 PM - 11:00 PM	56.3	73.4	53.5
11:00 PM - 12:00 AM	60.9	88.6	54.3
12:00 AM - 01:00 AM	56.9	81.4	53.2
01:00 AM - 02:00 AM	57.5	82.6	52.9
02:00 AM - 03:00 AM	55.6	73.9	52.9
03:00 AM - 04:00 AM	57.0	73.3	53.4
04:00 AM - 05:00 AM	59.7	73.1	55.9
05:00 AM - 06:00 AM	61.9	87.6	56.1
06:00 AM - 07:00 AM	58.0	84.6	53.8
07:00 AM - 08:00 AM	57.1	87.2	53.3
08:00 AM - 09:00 AM	57.0	79.2	53.3
09:00 AM - 10:00 AM	60.3	82.3	53.7
10:00 AM - 11:00 AM	60.5	82.2	53.9
Leq Average 24 hrs. (dB(A))	70.3		
Lmax (dB(A))		91.8	
L90 (dB(A))			53.7
Ldn (dB(A))	71.2		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Thanita K.
Thanita Kulsunwong
Scientist (4)

Approved by Supt S
Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107696
Date Received : Sep 26, 2023
Date Reported : Sep 29, 2023
Report Number: 2791165-1

Sample Number	23107696-1
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณสถานีอนามัยมาบยางพร
Measurement Date	Sep 18 - Sep 19, 2023
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	52.7	81.5	47.9
04:00 PM - 05:00 PM	52.8	77.1	48.1
05:00 PM - 06:00 PM	53.2	71.8	49.0
06:00 PM - 07:00 PM	61.4	72.9	53.9
07:00 PM - 08:00 PM	68.4	77.3	60.3
08:00 PM - 09:00 PM	66.4	76.2	52.9
09:00 PM - 10:00 PM	65.5	75.3	52.0
10:00 PM - 11:00 PM	63.1	75.6	47.8
11:00 PM - 12:00 AM	65.5	76.3	47.6
12:00 AM - 01:00 AM	60.8	74.2	44.5
01:00 AM - 02:00 AM	53.9	68.2	46.2
02:00 AM - 03:00 AM	48.2	63.4	45.3
03:00 AM - 04:00 AM	47.3	62.5	43.5
04:00 AM - 05:00 AM	47.3	64.2	43.2
05:00 AM - 06:00 AM	48.1	64.3	44.2
06:00 AM - 07:00 AM	52.9	76.2	48.8
07:00 AM - 08:00 AM	54.3	79.6	49.6
08:00 AM - 09:00 AM	53.0	72.3	48.3
09:00 AM - 10:00 AM	53.4	68.7	51.5
10:00 AM - 11:00 AM	51.8	74.1	46.0
11:00 AM - 12:00 PM	50.6	69.8	45.8
12:00 PM - 01:00 PM	50.1	70.4	45.4
01:00 PM - 02:00 PM	49.7	69.2	45.6
02:00 PM - 03:00 PM	53.2	72.8	46.2
Leq Average 24 hrs. (dB(A))	60.3		
Lmax (dB(A))		81.5	
L90 (dB(A))			47.6
Ldn (dB(A))	65.9		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Thanita K.
Thanita Kulsunwong
Scientist (4)

Approved by Supt S
Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107696
Date Received : Sep 26, 2023
Date Reported : Sep 29, 2023
Report Number: 2791166-1

Sample Number	23107696-2
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณสถานีอนามัยมาบยางพร
Measurement Date	Sep 19 - Sep 20, 2023
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	51.0	72.1	46.2
04:00 PM - 05:00 PM	54.0	77.9	47.9
05:00 PM - 06:00 PM	53.2	74.0	48.8
06:00 PM - 07:00 PM	55.4	74.9	50.9
07:00 PM - 08:00 PM	59.1	71.5	48.7
08:00 PM - 09:00 PM	61.5	73.0	49.5
09:00 PM - 10:00 PM	60.7	72.0	47.9
10:00 PM - 11:00 PM	57.6	71.6	45.4
11:00 PM - 12:00 AM	57.5	70.4	44.2
12:00 AM - 01:00 AM	54.6	69.3	43.1
01:00 AM - 02:00 AM	49.1	64.9	47.0
02:00 AM - 03:00 AM	47.6	69.4	45.8
03:00 AM - 04:00 AM	46.4	67.3	42.5
04:00 AM - 05:00 AM	46.6	60.9	43.3
05:00 AM - 06:00 AM	49.2	64.9	45.1
06:00 AM - 07:00 AM	52.8	76.1	49.1
07:00 AM - 08:00 AM	53.3	71.9	49.2
08:00 AM - 09:00 AM	52.9	69.1	49.9
09:00 AM - 10:00 AM	52.9	68.1	50.9
10:00 AM - 11:00 AM	49.4	66.8	45.6
11:00 AM - 12:00 PM	49.9	76.4	45.5
12:00 PM - 01:00 PM	52.7	74.5	49.8
01:00 PM - 02:00 PM	50.7	74.9	46.4
02:00 PM - 03:00 PM	51.0	78.1	46.3
Leq Average 24 hrs. (dB(A))	54.9		
Lmax (dB(A))		78.1	
L90 (dB(A))			46.4
Ldn (dB(A))	60.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Thanita K.
Thanita Kulsunwong
Scientist (4)

Approved by Supot S.
Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107696
Date Received : Sep 26, 2023
Date Reported : Sep 29, 2023
Report Number: 2791167-1

Sample Number	23107696-3
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณสถานีอนามัยมาบยางพร
Measurement Date	Sep 20 - Sep 21, 2023
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	55.8	75.8	51.3
04:00 PM - 05:00 PM	53.1	69.9	49.5
05:00 PM - 06:00 PM	51.8	72.0	47.4
06:00 PM - 07:00 PM	61.0	76.3	57.3
07:00 PM - 08:00 PM	59.4	72.6	48.8
08:00 PM - 09:00 PM	56.5	75.9	48.7
09:00 PM - 10:00 PM	54.2	70.0	47.3
10:00 PM - 11:00 PM	50.9	67.9	45.0
11:00 PM - 12:00 AM	50.8	72.2	44.9
12:00 AM - 01:00 AM	47.4	69.6	43.2
01:00 AM - 02:00 AM	48.1	68.8	43.6
02:00 AM - 03:00 AM	48.4	65.0	45.1
03:00 AM - 04:00 AM	45.8	62.0	42.0
04:00 AM - 05:00 AM	46.7	72.8	42.3
05:00 AM - 06:00 AM	47.1	62.4	44.3
06:00 AM - 07:00 AM	52.9	74.0	48.4
07:00 AM - 08:00 AM	54.3	74.2	50.1
08:00 AM - 09:00 AM	52.0	75.0	48.4
09:00 AM - 10:00 AM	51.4	73.8	47.4
10:00 AM - 11:00 AM	48.9	73.8	45.0
11:00 AM - 12:00 PM	49.2	68.1	44.7
12:00 PM - 01:00 PM	51.9	81.2	45.5
01:00 PM - 02:00 PM	50.8	79.2	46.0
02:00 PM - 03:00 PM	52.4	77.4	47.0
Leq Average 24 hrs. (dB(A))	53.6		
Lmax (dB(A))		81.2	
L90 (dB(A))			46.0
Ldn (dB(A))	57.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Thanita K.
Thanita Kulsunwong
Scientist (4)

Approved by Supot S.
Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107696
Date Received : Sep 26, 2023
Date Reported : Sep 29, 2023
Report Number: 2791168-1

Sample Number	23107696-4
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณสถานีอนามัยมาบยางพร
Measurement Date	Sep 21 - Sep 22, 2023
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	62.9	79.8	51.3
04:00 PM - 05:00 PM	58.0	79.7	48.2
05:00 PM - 06:00 PM	65.1	76.1	58.3
06:00 PM - 07:00 PM	54.0	73.3	49.2
07:00 PM - 08:00 PM	49.7	67.0	47.5
08:00 PM - 09:00 PM	48.0	65.0	45.9
09:00 PM - 10:00 PM	47.3	62.6	44.9
10:00 PM - 11:00 PM	57.6	70.6	54.7
11:00 PM - 12:00 AM	46.6	58.1	45.3
12:00 AM - 01:00 AM	54.4	67.7	48.9
01:00 AM - 02:00 AM	45.2	58.5	43.5
02:00 AM - 03:00 AM	45.4	57.9	43.8
03:00 AM - 04:00 AM	44.3	59.8	42.6
04:00 AM - 05:00 AM	44.2	62.7	42.7
05:00 AM - 06:00 AM	63.6	75.6	56.6
06:00 AM - 07:00 AM	56.9	75.4	51.4
07:00 AM - 08:00 AM	63.6	82.0	49.7
08:00 AM - 09:00 AM	50.5	69.2	47.3
09:00 AM - 10:00 AM	52.0	69.6	48.3
10:00 AM - 11:00 AM	51.5	66.3	48.1
11:00 AM - 12:00 PM	63.5	81.7	52.3
12:00 PM - 01:00 PM	51.3	68.5	46.7
01:00 PM - 02:00 PM	49.3	70.1	45.6
02:00 PM - 03:00 PM	51.3	69.1	45.8
Leq Average 24 hrs. (dB(A))	58.1		
Lmax (dB(A))		82.0	
L90 (dB(A))			47.5
Ldn (dB(A))	63.1		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Thanita K.
Thanita Kulsuriwong
Scientist (4)

Approved by Supt S.
Supot Salamteh
Section Head

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23107696
Date Received : Sep 26, 2023
Date Reported : Sep 29, 2023
Report Number: 2791169-1

Sample Number	23107696-5
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณสถานีอนามัยมาบยางพร
Measurement Date	Sep 22 - Sep 23, 2023
Measurement by	Nontachai Uppathamp
Sound Level meter	Serial No. 734220

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
03:00 PM - 04:00 PM	60.1	78.3	48.8
04:00 PM - 05:00 PM	58.9	78.8	48.0
05:00 PM - 06:00 PM	63.1	74.5	59.9
06:00 PM - 07:00 PM	50.1	64.3	47.1
07:00 PM - 08:00 PM	49.8	68.7	48.0
08:00 PM - 09:00 PM	49.1	64.0	47.5
09:00 PM - 10:00 PM	47.8	66.0	46.0
10:00 PM - 11:00 PM	54.0	68.8	51.0
11:00 PM - 12:00 AM	46.0	68.3	44.6
12:00 AM - 01:00 AM	45.5	60.3	43.9
01:00 AM - 02:00 AM	43.5	60.1	42.1
02:00 AM - 03:00 AM	42.2	57.9	41.1
03:00 AM - 04:00 AM	43.5	65.2	40.7
04:00 AM - 05:00 AM	44.0	67.8	40.6
05:00 AM - 06:00 AM	62.6	74.3	59.6
06:00 AM - 07:00 AM	54.0	80.4	48.4
07:00 AM - 08:00 AM	62.7	80.2	50.2
08:00 AM - 09:00 AM	55.2	72.7	48.6
09:00 AM - 10:00 AM	55.3	77.8	47.9
10:00 AM - 11:00 AM	52.9	73.8	47.4
11:00 AM - 12:00 PM	64.6	80.9	53.3
12:00 PM - 01:00 PM	52.9	73.2	47.1
01:00 PM - 02:00 PM	53.1	70.1	49.5
02:00 PM - 03:00 PM	52.6	75.5	47.1
Leq Average 24 hrs. (dB(A))	57.3		
Lmax (dB(A))		80.9	
L90 (dB(A))			47.5
Ldn (dB(A))	61.7		
Standard (dB(A))	70	115	

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
Remark : The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management Thanita K.
Thanita Kulsuriwong
Scientist (4)

Approved by Supt S.
Supot Salamteh
Section Head

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ภาคผนวก ค-6

ระดับเสียงรบกวน

Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791151-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-1
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยมาบยางพร
Measurement Date Sep 18 - 19, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด (A)	เสียงขณะไม่มีการรบกวน (B)	ผลต่างระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D) กลางวัน (A-C)	กลางคืน (A-C)+3	เสียงพื้นฐาน (E)	ค่าระดับการรบกวน (D-E)
03:00 PM - 04:00 PM	52.7	56.5	-3.8	7.0	45.7	-	52.2	-6.5
04:00 PM - 05:00 PM	52.8	56.5	-3.7	7.0	45.8	-	52.2	-6.4
05:00 PM - 06:00 PM	53.2	56.5	-3.3	7.0	46.2	-	52.2	-6.0
06:00 PM - 07:00 PM	61.4	56.5	4.9	1.5	59.9	-	52.2	7.7
07:00 PM - 08:00 PM	68.4	56.5	11.9	0.5	67.9	-	52.2	15.7
08:00 PM - 09:00 PM	66.4	56.5	9.9	0.5	65.9	-	52.2	13.7
09:00 PM - 10:00 PM	65.5	56.5	9.0	0.5	65.0	-	52.2	12.8
10:00 PM - 10:05 PM	62.2	53.5	8.7	0.5	-	64.7	45.6	19.1
10:05 PM - 10:10 PM	65.2	53.5	11.7	0.5	-	67.7	45.6	22.1
10:10 PM - 10:15 PM	62.2	53.5	8.7	0.5	-	64.7	45.6	19.1
10:15 PM - 10:20 PM	62.5	53.5	9.0	0.5	-	65.0	45.6	19.4
10:20 PM - 10:25 PM	64.9	53.5	11.4	0.5	-	67.4	45.6	21.8
10:25 PM - 10:30 PM	64.8	53.5	11.3	0.5	-	67.3	45.6	21.7
10:30 PM - 10:35 PM	65.4	53.5	11.9	0.5	-	67.9	45.6	22.3
10:35 PM - 10:40 PM	59.3	53.5	5.8	1.5	-	60.8	45.6	15.2
10:40 PM - 10:45 PM	59.0	53.5	5.5	1.5	-	60.5	45.6	14.9
10:45 PM - 10:50 PM	62.1	53.5	8.6	0.5	-	64.6	45.6	19.0
10:50 PM - 10:55 PM	64.6	53.5	11.1	0.5	-	67.1	45.6	21.5
10:55 PM - 11:00 PM	56.5	53.5	3.0	3.0	-	56.5	45.6	10.9
11:00 PM - 11:05 PM	60.1	53.5	6.6	1.0	-	62.1	45.6	16.5
11:05 PM - 11:10 PM	61.4	53.5	7.9	0.5	-	63.9	45.6	18.3
11:10 PM - 11:15 PM	61.6	53.5	8.1	0.5	-	64.1	45.6	18.5
11:15 PM - 11:20 PM	56.6	53.5	3.1	3.0	-	56.6	45.6	11.0
11:20 PM - 11:25 PM	63.9	53.5	10.4	0.5	-	66.4	45.6	20.8
11:25 PM - 11:30 PM	65.3	53.5	11.8	0.5	-	67.8	45.6	22.2
11:30 PM - 11:35 PM	65.5	53.5	12.0	0.5	-	68.0	45.6	22.4
11:35 PM - 11:40 PM	68.1	53.5	14.6	0.0	-	71.1	45.6	25.5
11:40 PM - 11:45 PM	67.8	53.5	14.3	0.0	-	70.8	45.6	25.2
11:45 PM - 11:50 PM	66.9	53.5	13.4	0.0	-	69.9	45.6	24.3
11:50 PM - 11:55 PM	67.7	53.5	14.2	0.0	-	70.7	45.6	25.1
11:55 PM - 12:00 AM	67.3	53.5	13.8	0.0	-	70.3	45.6	24.7
12:00 AM - 12:05 AM	65.0	53.5	11.5	0.5	-	67.5	45.6	21.9
12:05 AM - 12:10 AM	66.3	53.5	12.8	0.0	-	69.3	45.6	23.7
12:10 AM - 12:15 AM	63.6	53.5	10.1	0.5	-	66.1	45.6	20.5
12:15 AM - 12:20 AM	59.9	53.5	6.4	1.5	-	61.4	45.6	15.8
12:20 AM - 12:25 AM	58.4	53.5	4.9	1.5	-	59.9	45.6	14.3
12:25 AM - 12:30 AM	58.9	53.5	5.4	1.5	-	60.4	45.6	14.8
12:30 AM - 12:35 AM	55.5	53.5	2.0	4.5	-	54.0	45.6	8.4
12:35 AM - 12:40 AM	58.5	53.5	5.0	1.5	-	60.0	45.6	14.4
12:40 AM - 12:45 AM	55.1	53.5	1.6	4.5	-	53.6	45.6	8.0

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Approved by

Wilawan Borirak
Manager

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 : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791151-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-1
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยมาบยางพร
Measurement Date Sep 18 - 19, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด (A)	เสียงขณะไม่มีการรบกวน (B)	ผลต่างระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D) กลางวัน (A-C)	กลางคืน (A-C)+3	เสียงพื้นฐาน (E)	ค่าระดับการรบกวน (D-E)
12:45 AM - 12:50 AM	53.0	53.5	-0.5	7.0	-	49.0	45.6	3.4
12:50 AM - 12:55 AM	52.8	53.5	-0.7	7.0	-	48.8	45.6	3.2
12:55 AM - 01:00 AM	56.2	53.5	2.7	3.0	-	56.2	45.6	10.6
01:00 AM - 01:05 AM	57.0	53.5	3.5	2.0	-	58.0	45.6	12.4
01:05 AM - 01:10 AM	56.3	53.5	2.8	3.0	-	56.3	45.6	10.7
01:10 AM - 01:15 AM	56.1	53.5	2.6	3.0	-	56.1	45.6	10.5
01:15 AM - 01:20 AM	56.8	53.5	3.3	3.0	-	56.8	45.6	11.2
01:20 AM - 01:25 AM	54.5	53.5	1.0	7.0	-	50.5	45.6	4.9
01:25 AM - 01:30 AM	52.0	53.5	-1.5	7.0	-	48.0	45.6	2.4
01:30 AM - 01:35 AM	48.6	53.5	-4.9	7.0	-	44.6	45.6	-1.0
01:35 AM - 01:40 AM	49.3	53.5	-4.2	7.0	-	45.3	45.6	-0.3
01:40 AM - 01:45 AM	55.0	53.5	1.5	4.5	-	53.5	45.6	7.9
01:45 AM - 01:50 AM	48.1	53.5	-5.4	7.0	-	44.1	45.6	-1.5
01:50 AM - 01:55 AM	47.2	53.5	-6.3	7.0	-	43.2	45.6	-2.4
01:55 AM - 02:00 AM	49.9	53.5	-3.6	7.0	-	45.9	45.6	0.3
02:00 AM - 02:05 AM	49.3	53.5	-4.2	7.0	-	45.3	45.6	-0.3
02:05 AM - 02:10 AM	50.6	53.5	-2.9	7.0	-	46.6	45.6	1.0
02:10 AM - 02:15 AM	46.8	53.5	-6.7	7.0	-	42.8	45.6	-2.8
02:15 AM - 02:20 AM	47.8	53.5	-5.7	7.0	-	43.8	45.6	-1.8
02:20 AM - 02:25 AM	48.3	53.5	-5.2	7.0	-	44.3	45.6	-1.3
02:25 AM - 02:30 AM	49.3	53.5	-4.2	7.0	-	45.3	45.6	-0.3
02:30 AM - 02:35 AM	47.4	53.5	-6.1	7.0	-	43.4	45.6	-2.2
02:35 AM - 02:40 AM	46.9	53.5	-6.6	7.0	-	42.9	45.6	-2.7
02:40 AM - 02:45 AM	47.6	53.5	-5.9	7.0	-	43.6	45.6	-2.0
02:45 AM - 02:50 AM	46.9	53.5	-6.6	7.0	-	42.9	45.6	-2.7
02:50 AM - 02:55 AM	48.5	53.5	-5.0	7.0	-	44.5	45.6	-1.1
02:55 AM - 03:00 AM	46.6	53.5	-6.9	7.0	-	42.6	45.6	-3.0
03:00 AM - 03:05 AM	49.2	53.5	-4.3	7.0	-	45.2	45.6	-0.4
03:05 AM - 03:10 AM	46.3	53.5	-7.2	7.0	-	42.3	45.6	-3.3
03:10 AM - 03:15 AM	48.8	53.5	-4.7	7.0	-	44.8	45.6	-0.8
03:15 AM - 03:20 AM	47.5	53.5	-6.0	7.0	-	43.5	45.6	-2.1
03:20 AM - 03:25 AM	48.5	53.5	-5.0	7.0	-	44.5	45.6	-1.1
03:25 AM - 03:30 AM	48.3	53.5	-5.2	7.0	-	44.3	45.6	-1.3
03:30 AM - 03:35 AM	46.2	53.5	-7.3	7.0	-	42.2	45.6	-3.4
03:35 AM - 03:40 AM	45.8	53.5	-7.7	7.0	-	41.8	45.6	-3.8
03:40 AM - 03:45 AM	46.0	53.5	-7.5	7.0	-	42.0	45.6	-3.6
03:45 AM - 03:50 AM	46.0	53.5	-7.5	7.0	-	42.0	45.6	-3.6
03:50 AM - 03:55 AM	46.9	53.5	-6.6	7.0	-	42.9	45.6	-2.7
03:55 AM - 04:00 AM	45.5	53.5	-8.0	7.0	-	41.5	45.6	-4.1
04:00 AM - 04:05 AM	45.3	53.5	-8.2	7.0	-	41.3	45.6	-4.3

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Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791151-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-1
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยบ้านยางพร
Measurement Date Sep 18 - 19, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด (A)	เสียงขณะไม่มีการรบกวน (B)	ผลต่างระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D) กลางวัน (A+C)	กลางคืน (A+C)+3	เสียงพื้นฐาน (E)	ค่าระดับการรบกวน (D-E)
04:05 AM - 04:10 AM	46.4	53.5	-7.1	7.0	-	42.4	45.6	-3.2
04:10 AM - 04:15 AM	45.5	53.5	-8.0	7.0	-	41.5	45.6	-4.1
04:15 AM - 04:20 AM	45.8	53.5	-7.7	7.0	-	41.8	45.6	-3.8
04:20 AM - 04:25 AM	45.9	53.5	-7.6	7.0	-	41.9	45.6	-3.7
04:25 AM - 04:30 AM	45.5	53.5	-8.0	7.0	-	41.5	45.6	-4.1
04:30 AM - 04:35 AM	45.9	53.5	-7.6	7.0	-	41.9	45.6	-3.7
04:35 AM - 04:40 AM	48.0	53.5	-5.5	7.0	-	44.0	45.6	-1.6
04:40 AM - 04:45 AM	52.2	53.5	-1.3	7.0	-	48.2	45.6	2.6
04:45 AM - 04:50 AM	46.6	53.5	-6.9	7.0	-	42.6	45.6	-3.0
04:50 AM - 04:55 AM	46.7	53.5	-6.8	7.0	-	42.7	45.6	-2.9
04:55 AM - 05:00 AM	47.5	53.5	-6.0	7.0	-	43.5	45.6	-2.1
05:00 AM - 05:05 AM	50.7	53.5	-2.8	7.0	-	46.7	45.6	1.1
05:05 AM - 05:10 AM	46.9	53.5	-6.6	7.0	-	42.9	45.6	-2.7
05:10 AM - 05:15 AM	47.0	53.5	-6.5	7.0	-	43.0	45.6	-2.6
05:15 AM - 05:20 AM	47.7	53.5	-5.8	7.0	-	43.7	45.6	-1.9
05:20 AM - 05:25 AM	46.8	53.5	-6.7	7.0	-	42.8	45.6	-2.8
05:25 AM - 05:30 AM	47.3	53.5	-6.2	7.0	-	43.3	45.6	-2.3
05:30 AM - 05:35 AM	47.5	53.5	-6.0	7.0	-	43.5	45.6	-2.1
05:35 AM - 05:40 AM	46.8	53.5	-6.7	7.0	-	42.8	45.6	-2.8
05:40 AM - 05:45 AM	48.2	53.5	-5.3	7.0	-	44.2	45.6	-1.4
05:45 AM - 05:50 AM	47.6	53.5	-5.9	7.0	-	43.6	45.6	-2.0
05:50 AM - 05:55 AM	50.0	53.5	-3.5	7.0	-	46.0	45.6	0.4
05:55 AM - 06:00 AM	48.3	53.5	-5.2	7.0	-	44.3	45.6	-1.3
06:00 AM - 07:00 AM	52.9	56.5	-3.6	7.0	45.9	-	52.2	-6.3
07:00 AM - 08:00 AM	54.3	56.5	-2.2	7.0	47.3	-	52.2	-4.9
08:00 AM - 09:00 AM	53.0	56.5	-3.5	7.0	46.0	-	52.2	-6.2
09:00 AM - 10:00 AM	53.4	56.5	-3.1	7.0	46.4	-	52.2	-5.8
10:00 AM - 11:00 AM	51.8	56.5	-4.7	7.0	44.8	-	52.2	-7.4
11:00 AM - 12:00 PM	50.6	56.5	-5.9	7.0	43.6	-	52.2	-8.6
12:00 PM - 01:00 PM	50.1	56.5	-6.4	7.0	43.1	-	52.2	-9.1
01:00 PM - 02:00 PM	49.7	56.5	-6.8	7.0	42.7	-	52.2	-9.5
02:00 PM - 03:00 PM	53.2	56.5	-3.3	7.0	46.2	-	52.2	-6.0
ค่ามาตรฐาน								≤ 10

Reference Method : ISO 1996-1
มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
3. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 18-19 กันยายน 2566
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน วันที่ตรวจวัด 5-6 มีนาคม 2556

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Approved by
Wilawan Borirak
Manager

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 : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791152-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-2
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยบ้านยางพร
Measurement Date Sep 19 - 20, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด (A)	เสียงขณะไม่มีการรบกวน (B)	ผลต่างระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D) กลางวัน (A+C)	กลางคืน (A+C)+3	เสียงพื้นฐาน (E)	ค่าระดับการรบกวน (D-E)
03:00 PM - 04:00 PM	51.0	56.5	-5.5	7.0	44.0	-	52.2	-8.2
04:00 PM - 05:00 PM	54.0	56.5	-2.5	7.0	47.0	-	52.2	-5.2
05:00 PM - 06:00 PM	53.2	56.5	-3.3	7.0	46.2	-	52.2	-6.0
06:00 PM - 07:00 PM	55.4	56.5	-1.1	7.0	48.4	-	52.2	-3.8
07:00 PM - 08:00 PM	59.1	56.5	2.6	3.0	56.1	-	52.2	3.9
08:00 PM - 09:00 PM	61.5	56.5	5.0	1.5	60.0	-	52.2	7.8
09:00 PM - 10:00 PM	60.7	56.5	4.2	2.0	58.7	-	52.2	6.5
10:00 PM - 10:05 PM	58.0	53.5	4.5	1.5	-	59.5	45.6	13.9
10:05 PM - 10:10 PM	50.6	53.5	-2.9	7.0	-	46.6	45.6	1.0
10:10 PM - 10:15 PM	55.2	53.5	1.7	4.5	-	53.7	45.6	8.1
10:15 PM - 10:20 PM	49.4	53.5	-4.1	7.0	-	45.4	45.6	-0.2
10:20 PM - 10:25 PM	53.6	53.5	0.1	7.0	-	49.6	45.6	4.0
10:25 PM - 10:30 PM	59.1	53.5	5.6	1.5	-	60.6	45.6	15.0
10:30 PM - 10:35 PM	50.2	53.5	-3.3	7.0	-	46.2	45.6	0.6
10:35 PM - 10:40 PM	57.1	53.5	3.6	2.0	-	58.1	45.6	12.5
10:40 PM - 10:45 PM	59.6	53.5	6.1	1.5	-	61.1	45.6	15.5
10:45 PM - 10:50 PM	57.0	53.5	3.5	2.0	-	58.0	45.6	12.4
10:50 PM - 10:55 PM	62.6	53.5	9.1	0.5	-	65.1	45.6	19.5
10:55 PM - 11:00 PM	58.9	53.5	5.4	1.5	-	60.4	45.6	14.8
11:00 PM - 11:05 PM	57.0	53.5	3.5	2.0	-	58.0	45.6	12.4
11:05 PM - 11:10 PM	63.0	53.5	9.5	0.5	-	65.5	45.6	19.9
11:10 PM - 11:15 PM	61.0	53.5	7.5	0.5	-	63.5	45.6	17.9
11:15 PM - 11:20 PM	58.3	53.5	4.8	1.5	-	59.8	45.6	14.2
11:20 PM - 11:25 PM	53.8	53.5	0.3	7.0	-	49.8	45.6	4.2
11:25 PM - 11:30 PM	54.7	53.5	1.2	7.0	-	50.7	45.6	5.1
11:30 PM - 11:35 PM	55.4	53.5	1.9	4.5	-	53.9	45.6	8.3
11:35 PM - 11:40 PM	55.4	53.5	1.9	4.5	-	53.9	45.6	8.3
11:40 PM - 11:45 PM	46.4	53.5	-7.1	7.0	-	42.4	45.6	-3.2
11:45 PM - 11:50 PM	55.9	53.5	2.4	4.5	-	54.4	45.6	8.8
11:50 PM - 11:55 PM	54.2	53.5	0.7	7.0	-	50.2	45.6	4.6
11:55 PM - 12:00 AM	56.1	53.5	2.6	3.0	-	56.1	45.6	10.5
12:00 AM - 12:05 AM	51.4	53.5	-2.1	7.0	-	47.4	45.6	1.8
12:05 AM - 12:10 AM	48.8	53.5	-4.7	7.0	-	44.8	45.6	-0.8
12:10 AM - 12:15 AM	48.1	53.5	-5.4	7.0	-	44.1	45.6	-1.5
12:15 AM - 12:20 AM	57.4	53.5	3.9	2.0	-	58.4	45.6	12.8
12:20 AM - 12:25 AM	59.0	53.5	5.5	1.5	-	60.5	45.6	14.9
12:25 AM - 12:30 AM	58.8	53.5	5.3	1.5	-	60.3	45.6	14.7
12:30 AM - 12:35 AM	45.2	53.5	-8.3	7.0	-	41.2	45.6	-4.4
12:35 AM - 12:40 AM	55.4	53.5	1.9	4.5	-	53.9	45.6	8.3
12:40 AM - 12:45 AM	47.4	53.5	-6.1	7.0	-	43.4	45.6	-2.2

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Approved by
Wilawan Borirak
Manager

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 : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791152-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-2
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยมาบยางพร
Measurement Date Sep 19 - 20, 2023
Measurement by Nontachai Uppalhamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด [A]	เสียงขณะไม่มีการรบกวน [B]	ผลต่างระดับเสียง [A-B]	ตัวปรับค่า [C]	ปรับค่าเสียงจากแหล่งกำเนิด [D] กลางวัน [A-C]	กลางคืน [A-C]+3	เสียงพื้นฐาน [E]	ค่าระดับการรบกวน [D-E]
12:45 AM - 12:50 AM	48.9	53.5	-4.6	7.0	-	44.9	45.6	-0.7
12:50 AM - 12:55 AM	57.3	53.5	3.8	2.0	-	58.3	45.6	12.7
12:55 AM - 01:00 AM	48.2	53.5	-5.3	7.0	-	44.2	45.6	-1.4
01:00 AM - 01:05 AM	47.7	53.5	-5.8	7.0	-	43.7	45.6	-1.9
01:05 AM - 01:10 AM	50.4	53.5	-3.1	7.0	-	46.4	45.6	0.8
01:10 AM - 01:15 AM	49.1	53.5	-4.4	7.0	-	45.1	45.6	-0.5
01:15 AM - 01:20 AM	51.7	53.5	-1.8	7.0	-	47.7	45.6	2.1
01:20 AM - 01:25 AM	49.5	53.5	-4.0	7.0	-	45.5	45.6	-0.1
01:25 AM - 01:30 AM	48.4	53.5	-5.1	7.0	-	44.4	45.6	-1.2
01:30 AM - 01:35 AM	48.7	53.5	-4.8	7.0	-	44.7	45.6	-0.9
01:35 AM - 01:40 AM	49.9	53.5	-3.6	7.0	-	45.9	45.6	0.3
01:40 AM - 01:45 AM	47.5	53.5	-6.0	7.0	-	43.5	45.6	-2.1
01:45 AM - 01:50 AM	47.6	53.5	-5.9	7.0	-	43.6	45.6	-2.0
01:50 AM - 01:55 AM	49.1	53.5	-4.4	7.0	-	45.1	45.6	-0.5
01:55 AM - 02:00 AM	48.0	53.5	-5.5	7.0	-	44.0	45.6	-1.6
02:00 AM - 02:05 AM	48.1	53.5	-5.4	7.0	-	44.1	45.6	-1.5
02:05 AM - 02:10 AM	47.4	53.5	-6.1	7.0	-	43.4	45.6	-2.2
02:10 AM - 02:15 AM	47.6	53.5	-5.9	7.0	-	43.6	45.6	-2.0
02:15 AM - 02:20 AM	47.6	53.5	-5.9	7.0	-	43.6	45.6	-2.0
02:20 AM - 02:25 AM	47.9	53.5	-5.6	7.0	-	43.9	45.6	-1.7
02:25 AM - 02:30 AM	47.7	53.5	-5.8	7.0	-	43.7	45.6	-1.9
02:30 AM - 02:35 AM	48.4	53.5	-5.1	7.0	-	44.4	45.6	-1.2
02:35 AM - 02:40 AM	48.3	53.5	-5.2	7.0	-	44.3	45.6	-1.3
02:40 AM - 02:45 AM	48.0	53.5	-5.5	7.0	-	44.0	45.6	-1.6
02:45 AM - 02:50 AM	47.8	53.5	-5.7	7.0	-	43.8	45.6	-1.8
02:50 AM - 02:55 AM	46.4	53.5	-7.1	7.0	-	42.4	45.6	-3.2
02:55 AM - 03:00 AM	44.5	53.5	-9.0	7.0	-	40.5	45.6	-5.1
03:00 AM - 03:05 AM	45.4	53.5	-8.1	7.0	-	41.4	45.6	-4.2
03:05 AM - 03:10 AM	44.7	53.5	-8.8	7.0	-	40.7	45.6	-4.9
03:10 AM - 03:15 AM	46.8	53.5	-6.7	7.0	-	42.8	45.6	-2.8
03:15 AM - 03:20 AM	46.8	53.5	-6.7	7.0	-	42.8	45.6	-2.8
03:20 AM - 03:25 AM	47.9	53.5	-5.6	7.0	-	43.9	45.6	-1.7
03:25 AM - 03:30 AM	45.0	53.5	-8.5	7.0	-	41.0	45.6	-4.6
03:30 AM - 03:35 AM	45.4	53.5	-8.1	7.0	-	41.4	45.6	-4.2
03:35 AM - 03:40 AM	49.0	53.5	-4.5	7.0	-	45.0	45.6	-0.6
03:40 AM - 03:45 AM	47.3	53.5	-6.2	7.0	-	43.3	45.6	-2.3
03:45 AM - 03:50 AM	46.8	53.5	-6.7	7.0	-	42.8	45.6	-2.8
03:50 AM - 03:55 AM	43.2	53.5	-10.3	7.0	-	39.2	45.6	-6.4
03:55 AM - 04:00 AM	45.7	53.5	-7.8	7.0	-	41.7	45.6	-3.9
04:00 AM - 04:05 AM	44.2	53.5	-9.3	7.0	-	40.2	45.6	-5.4

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Approved by
Wilawan Borirak
Manager

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 : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791152-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-2
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยมาบยางพร
Measurement Date Sep 19 - 20, 2023
Measurement by Nontachai Uppalhamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด [A]	เสียงขณะไม่มีการรบกวน [B]	ผลต่างระดับเสียง [A-B]	ตัวปรับค่า [C]	ปรับค่าเสียงจากแหล่งกำเนิด [D] กลางวัน [A-C]	กลางคืน [A-C]+3	เสียงพื้นฐาน [E]	ค่าระดับการรบกวน [D-E]
04:05 AM - 04:10 AM	45.0	53.5	-8.5	7.0	-	41.0	45.6	-4.6
04:10 AM - 04:15 AM	44.2	53.5	-9.3	7.0	-	40.2	45.6	-5.4
04:15 AM - 04:20 AM	44.5	53.5	-9.0	7.0	-	40.5	45.6	-5.1
04:20 AM - 04:25 AM	44.3	53.5	-9.2	7.0	-	40.3	45.6	-5.3
04:25 AM - 04:30 AM	45.2	53.5	-8.3	7.0	-	41.2	45.6	-4.4
04:30 AM - 04:35 AM	47.5	53.5	-6.0	7.0	-	43.5	45.6	-2.1
04:35 AM - 04:40 AM	47.9	53.5	-5.6	7.0	-	43.9	45.6	-1.7
04:40 AM - 04:45 AM	48.3	53.5	-5.2	7.0	-	44.3	45.6	-1.3
04:45 AM - 04:50 AM	48.2	53.5	-5.3	7.0	-	44.2	45.6	-1.4
04:50 AM - 04:55 AM	48.8	53.5	-4.7	7.0	-	44.8	45.6	-0.8
04:55 AM - 05:00 AM	47.4	53.5	-6.1	7.0	-	43.4	45.6	-2.2
05:00 AM - 05:05 AM	47.7	53.5	-5.8	7.0	-	43.7	45.6	-1.9
05:05 AM - 05:10 AM	50.2	53.5	-3.3	7.0	-	46.2	45.6	0.6
05:10 AM - 05:15 AM	49.1	53.5	-4.4	7.0	-	45.1	45.6	-0.5
05:15 AM - 05:20 AM	49.1	53.5	-4.4	7.0	-	45.1	45.6	-0.5
05:20 AM - 05:25 AM	50.6	53.5	-2.9	7.0	-	46.6	45.6	1.0
05:25 AM - 05:30 AM	49.2	53.5	-4.3	7.0	-	45.2	45.6	-0.4
05:30 AM - 05:35 AM	49.8	53.5	-3.7	7.0	-	45.8	45.6	0.2
05:35 AM - 05:40 AM	48.8	53.5	-4.7	7.0	-	44.8	45.6	-0.8
05:40 AM - 05:45 AM	48.3	53.5	-5.2	7.0	-	44.3	45.6	-1.3
05:45 AM - 05:50 AM	50.2	53.5	-3.3	7.0	-	46.2	45.6	0.6
05:50 AM - 05:55 AM	48.3	53.5	-5.2	7.0	-	44.3	45.6	-1.3
05:55 AM - 06:00 AM	48.5	53.5	-5.0	7.0	-	44.5	45.6	-1.1
06:00 AM - 07:00 AM	52.8	56.5	-3.7	7.0	45.8	-	52.2	-6.4
07:00 AM - 08:00 AM	53.3	56.5	-3.2	7.0	46.3	-	52.2	-5.9
08:00 AM - 09:00 AM	52.9	56.5	-3.6	7.0	45.9	-	52.2	-6.3
09:00 AM - 10:00 AM	52.9	56.5	-3.6	7.0	45.9	-	52.2	-6.3
10:00 AM - 11:00 AM	49.4	56.5	-7.1	7.0	42.4	-	52.2	-9.8
11:00 AM - 12:00 PM	49.9	56.5	-6.6	7.0	42.9	-	52.2	-9.3
12:00 PM - 01:00 PM	52.7	56.5	-3.8	7.0	45.7	-	52.2	-6.5
01:00 PM - 02:00 PM	50.7	56.5	-5.8	7.0	43.7	-	52.2	-8.5
02:00 PM - 03:00 PM	51.0	56.5	-5.5	7.0	44.0	-	52.2	-8.2
ค่ามาตรฐาน								≤ 10

Reference Method : ISO 1996-1
มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
3. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงดังเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 19-20 กันยายน 2566
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน วันที่ตรวจวัด 5-6 มีนาคม 2556

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Approved by
Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791153-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-3
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยมาบยางหร
Measurement Date Sep 20 - 21, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด (A)	เสียงขณะไม่มีการรบกวน (B)	ผลต่างระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D) กลางวัน (A-C)	กลางคืน (A-C)+5	เสียงพื้นฐาน (E)	ค่าระดับการรบกวน (D-E)
03:00 PM - 04:00 PM	55.8	56.5	-0.7	7.0	48.8	-	52.2	-3.4
04:00 PM - 05:00 PM	53.1	56.5	-3.4	7.0	46.1	-	52.2	-6.1
05:00 PM - 06:00 PM	51.8	56.5	-4.7	7.0	44.8	-	52.2	-7.4
06:00 PM - 07:00 PM	61.0	56.5	4.5	1.5	59.5	-	52.2	7.3
07:00 PM - 08:00 PM	59.4	56.5	2.9	3.0	56.4	-	52.2	4.2
08:00 PM - 09:00 PM	56.5	56.5	0.0	7.0	49.5	-	52.2	-2.7
09:00 PM - 10:00 PM	54.2	56.5	-2.3	7.0	47.2	-	52.2	-5.0
10:00 PM - 10:05 PM	51.7	53.5	-1.8	7.0	-	47.7	45.6	2.1
10:05 PM - 10:10 PM	52.7	53.5	-0.8	7.0	-	48.7	45.6	3.1
10:10 PM - 10:15 PM	53.2	53.5	-0.3	7.0	-	49.2	45.6	3.6
10:15 PM - 10:20 PM	50.6	53.5	-2.9	7.0	-	46.6	45.6	1.0
10:20 PM - 10:25 PM	47.7	53.5	-5.8	7.0	-	43.7	45.6	-1.9
10:25 PM - 10:30 PM	52.4	53.5	-1.1	7.0	-	48.4	45.6	2.8
10:30 PM - 10:35 PM	49.3	53.5	-4.2	7.0	-	45.3	45.6	-0.3
10:35 PM - 10:40 PM	49.3	53.5	-4.2	7.0	-	45.3	45.6	-0.3
10:40 PM - 10:45 PM	48.8	53.5	-4.7	7.0	-	44.8	45.6	-0.8
10:45 PM - 10:50 PM	48.3	53.5	-5.2	7.0	-	44.3	45.6	-1.3
10:50 PM - 10:55 PM	51.6	53.5	-1.9	7.0	-	47.6	45.6	2.0
10:55 PM - 11:00 PM	51.6	53.5	-1.9	7.0	-	47.6	45.6	2.0
11:00 PM - 11:05 PM	53.2	53.5	-0.3	7.0	-	49.2	45.6	3.6
11:05 PM - 11:10 PM	53.1	53.5	-0.4	7.0	-	49.1	45.6	3.5
11:10 PM - 11:15 PM	54.6	53.5	1.1	7.0	-	50.6	45.6	5.0
11:15 PM - 11:20 PM	50.6	53.5	-2.9	7.0	-	46.6	45.6	1.0
11:20 PM - 11:25 PM	51.6	53.5	-1.9	7.0	-	47.6	45.6	2.0
11:25 PM - 11:30 PM	48.1	53.5	-5.4	7.0	-	44.1	45.6	-1.5
11:30 PM - 11:35 PM	48.8	53.5	-4.7	7.0	-	44.8	45.6	-0.8
11:35 PM - 11:40 PM	48.9	53.5	-4.6	7.0	-	44.9	45.6	-0.7
11:40 PM - 11:45 PM	49.5	53.5	-4.0	7.0	-	45.5	45.6	-0.1
11:45 PM - 11:50 PM	47.2	53.5	-6.3	7.0	-	43.2	45.6	-2.4
11:50 PM - 11:55 PM	45.7	53.5	-7.8	7.0	-	41.7	45.6	-3.9
11:55 PM - 12:00 AM	48.7	53.5	-4.8	7.0	-	44.7	45.6	-0.9
12:00 AM - 12:05 AM	45.6	53.5	-7.9	7.0	-	41.6	45.6	-4.0
12:05 AM - 12:10 AM	46.2	53.5	-7.3	7.0	-	42.2	45.6	-3.4
12:10 AM - 12:15 AM	45.7	53.5	-7.8	7.0	-	41.7	45.6	-3.9
12:15 AM - 12:20 AM	46.1	53.5	-7.4	7.0	-	42.1	45.6	-3.5
12:20 AM - 12:25 AM	47.1	53.5	-6.4	7.0	-	43.1	45.6	-2.5
12:25 AM - 12:30 AM	48.8	53.5	-4.7	7.0	-	44.8	45.6	-0.8
12:30 AM - 12:35 AM	47.3	53.5	-6.2	7.0	-	43.3	45.6	-2.3
12:35 AM - 12:40 AM	46.9	53.5	-6.6	7.0	-	42.9	45.6	-2.7
12:40 AM - 12:45 AM	46.4	53.5	-7.1	7.0	-	42.4	45.6	-3.2

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Approved by

Wilawan Borirak
Manager

Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791153-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-3
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยมาบยางหร
Measurement Date Sep 20 - 21, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด (A)	เสียงขณะไม่มีการรบกวน (B)	ผลต่างระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D) กลางวัน (A-C)	กลางคืน (A-C)+5	เสียงพื้นฐาน (E)	ค่าระดับการรบกวน (D-E)
12:45 AM - 12:50 AM	47.4	53.5	-6.1	7.0	-	43.4	45.6	-2.2
12:50 AM - 12:55 AM	48.9	53.5	-4.6	7.0	-	44.9	45.6	-0.7
12:55 AM - 01:00 AM	50.2	53.5	-3.3	7.0	-	46.2	45.6	0.6
01:00 AM - 01:05 AM	47.3	53.5	-6.2	7.0	-	43.3	45.6	-2.3
01:05 AM - 01:10 AM	46.4	53.5	-7.1	7.0	-	42.4	45.6	-3.2
01:10 AM - 01:15 AM	46.6	53.5	-6.9	7.0	-	42.6	45.6	-3.0
01:15 AM - 01:20 AM	45.9	53.5	-7.6	7.0	-	41.9	45.6	-3.7
01:20 AM - 01:25 AM	53.0	53.5	-0.5	7.0	-	49.0	45.6	3.4
01:25 AM - 01:30 AM	46.3	53.5	-7.2	7.0	-	42.3	45.6	-3.3
01:30 AM - 01:35 AM	45.9	53.5	-7.6	7.0	-	41.9	45.6	-3.7
01:35 AM - 01:40 AM	47.2	53.5	-6.3	7.0	-	43.2	45.6	-2.4
01:40 AM - 01:45 AM	50.0	53.5	-3.5	7.0	-	46.0	45.6	0.4
01:45 AM - 01:50 AM	44.5	53.5	-9.0	7.0	-	40.5	45.6	-5.1
01:50 AM - 01:55 AM	48.5	53.5	-5.0	7.0	-	44.5	45.6	-1.1
01:55 AM - 02:00 AM	47.3	53.5	-6.2	7.0	-	43.3	45.6	-2.3
02:00 AM - 02:05 AM	50.1	53.5	-3.4	7.0	-	46.1	45.6	0.5
02:05 AM - 02:10 AM	52.8	53.5	-0.7	7.0	-	48.8	45.6	3.2
02:10 AM - 02:15 AM	46.8	53.5	-6.7	7.0	-	42.8	45.6	-2.8
02:15 AM - 02:20 AM	47.7	53.5	-5.8	7.0	-	43.7	45.6	-1.9
02:20 AM - 02:25 AM	47.8	53.5	-5.7	7.0	-	43.8	45.6	-1.8
02:25 AM - 02:30 AM	48.6	53.5	-4.9	7.0	-	44.6	45.6	-1.0
02:30 AM - 02:35 AM	46.3	53.5	-7.2	7.0	-	42.3	45.6	-3.3
02:35 AM - 02:40 AM	45.9	53.5	-7.6	7.0	-	41.9	45.6	-3.7
02:40 AM - 02:45 AM	47.3	53.5	-6.2	7.0	-	43.3	45.6	-2.3
02:45 AM - 02:50 AM	47.9	53.5	-5.6	7.0	-	43.9	45.6	-1.7
02:50 AM - 02:55 AM	47.0	53.5	-6.5	7.0	-	43.0	45.6	-2.6
02:55 AM - 03:00 AM	46.4	53.5	-7.1	7.0	-	42.4	45.6	-3.2
03:00 AM - 03:05 AM	45.2	53.5	-8.3	7.0	-	41.2	45.6	-4.4
03:05 AM - 03:10 AM	46.6	53.5	-6.9	7.0	-	42.6	45.6	-3.0
03:10 AM - 03:15 AM	42.9	53.5	-10.6	7.0	-	38.9	45.6	-6.7
03:15 AM - 03:20 AM	44.8	53.5	-8.7	7.0	-	40.8	45.6	-4.8
03:20 AM - 03:25 AM	47.6	53.5	-5.9	7.0	-	43.6	45.6	-2.0
03:25 AM - 03:30 AM	47.6	53.5	-5.9	7.0	-	43.6	45.6	-2.0
03:30 AM - 03:35 AM	44.5	53.5	-9.0	7.0	-	40.5	45.6	-5.1
03:35 AM - 03:40 AM	47.3	53.5	-6.2	7.0	-	43.3	45.6	-2.3
03:40 AM - 03:45 AM	45.0	53.5	-8.5	7.0	-	41.0	45.6	-4.6
03:45 AM - 03:50 AM	45.7	53.5	-7.8	7.0	-	41.7	45.6	-3.9
03:50 AM - 03:55 AM	44.9	53.5	-8.6	7.0	-	40.9	45.6	-4.7
03:55 AM - 04:00 AM	45.2	53.5	-8.3	7.0	-	41.2	45.6	-4.4
04:00 AM - 04:05 AM	49.2	53.5	-4.3	7.0	-	45.2	45.6	-0.4

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Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791153-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-3
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยมาบยางพร
Measurement Date Sep 20 - 21, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด [A]	เสียงขณะไม่มีการรบกวน [B]	ผลต่างระดับเสียง [A-B]	ตัวปรับค่า [C]	ปรับค่าเสียงจากแหล่งกำเนิด [D] กลางวัน [A-C]	กลางคืน [A-C+3]	เสียงพื้นฐาน [E]	ค่าระดับการรบกวน [D-E]
04:05 AM - 04:10 AM	45.6	53.5	-7.9	7.0	-	41.6	45.6	-4.0
04:10 AM - 04:15 AM	44.7	53.5	-8.8	7.0	-	40.7	45.6	-4.9
04:15 AM - 04:20 AM	45.8	53.5	-7.7	7.0	-	41.8	45.6	-3.8
04:20 AM - 04:25 AM	44.1	53.5	-9.4	7.0	-	40.1	45.6	-5.5
04:25 AM - 04:30 AM	46.6	53.5	-6.9	7.0	-	42.6	45.6	-3.0
04:30 AM - 04:35 AM	50.7	53.5	-2.8	7.0	-	46.7	45.6	1.1
04:35 AM - 04:40 AM	45.7	53.5	-7.8	7.0	-	41.7	45.6	-3.9
04:40 AM - 04:45 AM	45.6	53.5	-7.9	7.0	-	41.6	45.6	-4.0
04:45 AM - 04:50 AM	45.0	53.5	-8.5	7.0	-	41.0	45.6	-4.6
04:50 AM - 04:55 AM	46.0	53.5	-7.5	7.0	-	42.0	45.6	-3.6
04:55 AM - 05:00 AM	45.5	53.5	-8.0	7.0	-	41.5	45.6	-4.1
05:00 AM - 05:05 AM	47.3	53.5	-6.2	7.0	-	43.3	45.6	-2.3
05:05 AM - 05:10 AM	47.2	53.5	-6.3	7.0	-	43.2	45.6	-2.4
05:10 AM - 05:15 AM	45.5	53.5	-8.0	7.0	-	41.5	45.6	-4.1
05:15 AM - 05:20 AM	45.9	53.5	-7.6	7.0	-	41.9	45.6	-3.7
05:20 AM - 05:25 AM	46.7	53.5	-6.8	7.0	-	42.7	45.6	-2.9
05:25 AM - 05:30 AM	46.1	53.5	-7.4	7.0	-	42.1	45.6	-3.5
05:30 AM - 05:35 AM	47.6	53.5	-5.9	7.0	-	43.6	45.6	-2.0
05:35 AM - 05:40 AM	47.6	53.5	-5.9	7.0	-	43.6	45.6	-2.0
05:40 AM - 05:45 AM	46.5	53.5	-7.0	7.0	-	42.5	45.6	-3.1
05:45 AM - 05:50 AM	48.1	53.5	-5.4	7.0	-	44.1	45.6	-1.5
05:50 AM - 05:55 AM	46.8	53.5	-6.7	7.0	-	42.8	45.6	-2.8
05:55 AM - 06:00 AM	48.5	53.5	-5.0	7.0	-	44.5	45.6	-1.1
06:00 AM - 07:00 AM	52.9	56.5	-3.6	7.0	45.9	-	52.2	-6.3
07:00 AM - 08:00 AM	54.3	56.5	-2.2	7.0	47.3	-	52.2	-4.9
08:00 AM - 09:00 AM	52.0	56.5	-4.5	7.0	45.0	-	52.2	-7.2
09:00 AM - 10:00 AM	51.4	56.5	-5.1	7.0	44.4	-	52.2	-7.8
10:00 AM - 11:00 AM	48.9	56.5	-7.6	7.0	41.9	-	52.2	-10.3
11:00 AM - 12:00 PM	49.2	56.5	-7.3	7.0	42.2	-	52.2	-10.0
12:00 PM - 01:00 PM	51.9	56.5	-4.6	7.0	44.9	-	52.2	-7.3
01:00 PM - 02:00 PM	50.8	56.5	-5.7	7.0	43.8	-	52.2	-8.4
02:00 PM - 03:00 PM	52.4	56.5	-4.1	7.0	45.4	-	52.2	-6.8
ค่ามาตรฐาน								≤ 10

Reference Method : ISO 1996-1
มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
3. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 20-21 กันยายน 2566
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน วันที่ตรวจวัด 5-6 มีนาคม 2556

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Approved by
Wilawan Borirak
Manager

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 : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791154-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-4
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยมาบยางพร
Measurement Date Sep 21 - 22, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด [A]	เสียงขณะไม่มีการรบกวน [B]	ผลต่างระดับเสียง [A-B]	ตัวปรับค่า [C]	ปรับค่าเสียงจากแหล่งกำเนิด [D] กลางวัน [A-C]	กลางคืน [A-C+3]	เสียงพื้นฐาน [E]	ค่าระดับการรบกวน [D-E]
03:00 PM - 04:00 PM	62.9	56.5	6.4	1.5	61.4	-	52.2	9.2
04:00 PM - 05:00 PM	58.0	56.5	1.5	4.5	53.5	-	52.2	1.3
05:00 PM - 06:00 PM	65.1	56.5	8.6	0.5	64.6	-	52.2	12.4
06:00 PM - 07:00 PM	54.0	56.5	-2.5	7.0	47.0	-	52.2	-5.2
07:00 PM - 08:00 PM	49.7	56.5	-6.8	7.0	42.7	-	52.2	-9.5
08:00 PM - 09:00 PM	48.0	56.5	-8.5	7.0	41.0	-	52.2	-11.2
09:00 PM - 10:00 PM	47.3	56.5	-9.2	7.0	40.3	-	52.2	-11.9
10:00 PM - 10:05 PM	46.3	53.5	-7.2	7.0	-	42.3	45.6	-3.3
10:05 PM - 10:10 PM	53.1	53.5	-0.4	7.0	-	49.1	45.6	3.5
10:10 PM - 10:15 PM	67.7	53.5	14.2	0.0	-	70.7	45.6	25.1
10:15 PM - 10:20 PM	56.9	53.5	3.4	3.0	-	56.9	45.6	11.3
10:20 PM - 10:25 PM	46.4	53.5	-7.1	7.0	-	42.4	45.6	-3.2
10:25 PM - 10:30 PM	47.3	53.5	-6.2	7.0	-	43.3	45.6	-2.3
10:30 PM - 10:35 PM	47.3	53.5	-6.2	7.0	-	43.3	45.6	-2.3
10:35 PM - 10:40 PM	44.7	53.5	-8.8	7.0	-	40.7	45.6	-4.9
10:40 PM - 10:45 PM	45.1	53.5	-8.4	7.0	-	41.1	45.6	-4.5
10:45 PM - 10:50 PM	46.9	53.5	-6.6	7.0	-	42.9	45.6	-2.7
10:50 PM - 10:55 PM	46.9	53.5	-6.6	7.0	-	42.9	45.6	-2.7
10:55 PM - 11:00 PM	45.6	53.5	-7.9	7.0	-	41.6	45.6	-4.0
11:00 PM - 11:05 PM	45.4	53.5	-8.1	7.0	-	41.4	45.6	-4.2
11:05 PM - 11:10 PM	46.6	53.5	-6.9	7.0	-	42.6	45.6	-3.0
11:10 PM - 11:15 PM	47.0	53.5	-6.5	7.0	-	43.0	45.6	-2.6
11:15 PM - 11:20 PM	47.1	53.5	-6.4	7.0	-	43.1	45.6	-2.5
11:20 PM - 11:25 PM	47.2	53.5	-6.3	7.0	-	43.2	45.6	-2.4
11:25 PM - 11:30 PM	47.0	53.5	-6.5	7.0	-	43.0	45.6	-2.6
11:30 PM - 11:35 PM	47.2	53.5	-6.3	7.0	-	43.2	45.6	-2.4
11:35 PM - 11:40 PM	46.7	53.5	-6.8	7.0	-	42.7	45.6	-2.9
11:40 PM - 11:45 PM	46.3	53.5	-7.2	7.0	-	42.3	45.6	-3.3
11:45 PM - 11:50 PM	46.0	53.5	-7.5	7.0	-	42.0	45.6	-3.6
11:50 PM - 11:55 PM	46.1	53.5	-7.4	7.0	-	42.1	45.6	-3.5
11:55 PM - 12:00 AM	46.6	53.5	-6.9	7.0	-	42.6	45.6	-3.0
12:00 AM - 12:05 AM	46.1	53.5	-7.4	7.0	-	42.1	45.6	-3.5
12:05 AM - 12:10 AM	53.3	53.5	-0.2	7.0	-	49.3	45.6	3.7
12:10 AM - 12:15 AM	63.7	53.5	10.2	0.5	-	66.2	45.6	20.6
12:15 AM - 12:20 AM	55.6	53.5	2.1	4.5	-	54.1	45.6	8.5
12:20 AM - 12:25 AM	45.5	53.5	-8.0	7.0	-	41.5	45.6	-4.1
12:25 AM - 12:30 AM	47.2	53.5	-6.3	7.0	-	43.2	45.6	-2.4
12:30 AM - 12:35 AM	47.1	53.5	-6.4	7.0	-	43.1	45.6	-2.5
12:35 AM - 12:40 AM	46.7	53.5	-6.8	7.0	-	42.7	45.6	-2.9
12:40 AM - 12:45 AM	46.4	53.5	-7.1	7.0	-	42.4	45.6	-3.2

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Approved by
Wilawan Borirak
Manager

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 : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791154-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-4
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยมาบยางพร
Measurement Date Sep 21 - 22, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด [A]	เสียงขณะไม่มีการรบกวน [B]	ผลต่างระดับเสียง [A-B]	ตัวปรับค่า [C]	ปรับค่าเสียงจากแหล่งกำเนิด [D] กลางวัน [A-C]	กลางคืน [A-C+3]	เสียงพื้นฐาน [E]	ค่าระดับการรบกวน [D-E]
12:45 AM - 12:50 AM	47.1	53.5	-6.4	7.0	-	43.1	45.6	-2.5
12:50 AM - 12:55 AM	47.0	53.5	-6.5	7.0	-	43.0	45.6	-2.6
12:55 AM - 01:00 AM	46.5	53.5	-7.0	7.0	-	42.5	45.6	-3.1
01:00 AM - 01:05 AM	46.0	53.5	-7.5	7.0	-	42.0	45.6	-3.6
01:05 AM - 01:10 AM	44.6	53.5	-8.9	7.0	-	40.6	45.6	-5.0
01:10 AM - 01:15 AM	45.4	53.5	-8.1	7.0	-	41.4	45.6	-4.2
01:15 AM - 01:20 AM	45.2	53.5	-8.3	7.0	-	41.2	45.6	-4.4
01:20 AM - 01:25 AM	43.5	53.5	-10.0	7.0	-	39.5	45.6	-6.1
01:25 AM - 01:30 AM	44.1	53.5	-9.4	7.0	-	40.1	45.6	-5.5
01:30 AM - 01:35 AM	44.5	53.5	-9.0	7.0	-	40.5	45.6	-5.1
01:35 AM - 01:40 AM	46.8	53.5	-6.7	7.0	-	42.8	45.6	-2.8
01:40 AM - 01:45 AM	45.7	53.5	-7.8	7.0	-	41.7	45.6	-3.9
01:45 AM - 01:50 AM	45.9	53.5	-7.6	7.0	-	41.9	45.6	-3.7
01:50 AM - 01:55 AM	44.9	53.5	-8.6	7.0	-	40.9	45.6	-4.7
01:55 AM - 02:00 AM	44.3	53.5	-9.2	7.0	-	40.3	45.6	-5.3
02:00 AM - 02:05 AM	45.1	53.5	-8.4	7.0	-	41.1	45.6	-4.5
02:05 AM - 02:10 AM	45.0	53.5	-8.5	7.0	-	41.0	45.6	-4.6
02:10 AM - 02:15 AM	44.3	53.5	-9.2	7.0	-	40.3	45.6	-5.3
02:15 AM - 02:20 AM	45.1	53.5	-8.4	7.0	-	41.1	45.6	-4.5
02:20 AM - 02:25 AM	45.8	53.5	-7.7	7.0	-	41.8	45.6	-3.8
02:25 AM - 02:30 AM	45.7	53.5	-7.8	7.0	-	41.7	45.6	-3.9
02:30 AM - 02:35 AM	45.4	53.5	-8.1	7.0	-	41.4	45.6	-4.2
02:35 AM - 02:40 AM	46.6	53.5	-6.9	7.0	-	42.6	45.6	-3.0
02:40 AM - 02:45 AM	46.1	53.5	-7.4	7.0	-	42.1	45.6	-3.5
02:45 AM - 02:50 AM	45.3	53.5	-8.2	7.0	-	41.3	45.6	-4.3
02:50 AM - 02:55 AM	45.9	53.5	-7.6	7.0	-	41.9	45.6	-3.7
02:55 AM - 03:00 AM	44.4	53.5	-9.1	7.0	-	40.4	45.6	-5.2
03:00 AM - 03:05 AM	44.8	53.5	-8.7	7.0	-	40.8	45.6	-4.8
03:05 AM - 03:10 AM	44.5	53.5	-9.0	7.0	-	40.5	45.6	-5.1
03:10 AM - 03:15 AM	44.2	53.5	-9.3	7.0	-	40.2	45.6	-5.4
03:15 AM - 03:20 AM	44.0	53.5	-9.5	7.0	-	40.0	45.6	-5.6
03:20 AM - 03:25 AM	43.2	53.5	-10.3	7.0	-	39.2	45.6	-6.4
03:25 AM - 03:30 AM	43.4	53.5	-10.1	7.0	-	39.4	45.6	-6.2
03:30 AM - 03:35 AM	44.4	53.5	-9.1	7.0	-	40.4	45.6	-5.2
03:35 AM - 03:40 AM	43.7	53.5	-9.8	7.0	-	39.7	45.6	-5.9
03:40 AM - 03:45 AM	44.0	53.5	-9.5	7.0	-	40.0	45.6	-5.6
03:45 AM - 03:50 AM	46.7	53.5	-6.8	7.0	-	42.7	45.6	-2.9
03:50 AM - 03:55 AM	43.5	53.5	-10.0	7.0	-	39.5	45.6	-6.1
03:55 AM - 04:00 AM	43.5	53.5	-10.0	7.0	-	39.5	45.6	-6.1
04:00 AM - 04:05 AM	44.0	53.5	-9.5	7.0	-	40.0	45.6	-5.6

The above results are valid only for the analysed/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

Wilawan Borirak
Manager

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 : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791154-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-4
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยมาบยางพร
Measurement Date Sep 21 - 22, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด [A]	เสียงขณะไม่มีการรบกวน [B]	ผลต่างระดับเสียง [A-B]	ตัวปรับค่า [C]	ปรับค่าเสียงจากแหล่งกำเนิด [D] กลางวัน [A-C]	กลางคืน [A-C+3]	เสียงพื้นฐาน [E]	ค่าระดับการรบกวน [D-E]
04:05 AM - 04:10 AM	43.5	53.5	-10.0	7.0	-	39.5	45.6	-6.1
04:10 AM - 04:15 AM	43.7	53.5	-9.8	7.0	-	39.7	45.6	-5.9
04:15 AM - 04:20 AM	43.4	53.5	-10.1	7.0	-	39.4	45.6	-6.2
04:20 AM - 04:25 AM	44.2	53.5	-9.3	7.0	-	40.2	45.6	-5.4
04:25 AM - 04:30 AM	44.2	53.5	-9.3	7.0	-	40.2	45.6	-5.4
04:30 AM - 04:35 AM	44.1	53.5	-9.4	7.0	-	40.1	45.6	-5.5
04:35 AM - 04:40 AM	45.0	53.5	-8.5	7.0	-	41.0	45.6	-4.6
04:40 AM - 04:45 AM	44.3	53.5	-9.2	7.0	-	40.3	45.6	-5.3
04:45 AM - 04:50 AM	44.5	53.5	-9.0	7.0	-	40.5	45.6	-5.1
04:50 AM - 04:55 AM	44.3	53.5	-9.2	7.0	-	40.3	45.6	-5.3
04:55 AM - 05:00 AM	44.7	53.5	-8.8	7.0	-	40.7	45.6	-4.9
05:00 AM - 05:05 AM	44.6	53.5	-8.9	7.0	-	40.6	45.6	-5.0
05:05 AM - 05:10 AM	49.2	53.5	-4.3	7.0	-	45.2	45.6	-0.4
05:10 AM - 05:15 AM	49.7	53.5	-3.8	7.0	-	45.7	45.6	0.1
05:15 AM - 05:20 AM	69.4	53.5	15.9	0.0	-	72.4	45.6	26.8
05:20 AM - 05:25 AM	72.3	53.5	18.8	0.0	-	75.3	45.6	29.7
05:25 AM - 05:30 AM	58.4	53.5	4.9	1.5	-	59.9	45.6	14.3
05:30 AM - 05:35 AM	48.4	53.5	-5.1	7.0	-	44.4	45.6	-1.2
05:35 AM - 05:40 AM	49.4	53.5	-4.1	7.0	-	45.4	45.6	-0.2
05:40 AM - 05:45 AM	51.8	53.5	-1.7	7.0	-	47.8	45.6	2.2
05:45 AM - 05:50 AM	51.8	53.5	-1.7	7.0	-	47.8	45.6	2.2
05:50 AM - 05:55 AM	51.8	53.5	-1.7	7.0	-	47.8	45.6	2.2
05:55 AM - 06:00 AM	50.7	53.5	-2.8	7.0	-	46.7	45.6	1.1
06:00 AM - 07:00 AM	56.9	56.5	0.4	7.0	49.9	-	52.2	-2.3
07:00 AM - 08:00 AM	63.6	56.5	7.1	1.0	62.6	-	52.2	10.4
08:00 AM - 09:00 AM	50.5	56.5	-6.0	7.0	43.5	-	52.2	-8.7
09:00 AM - 10:00 AM	52.0	56.5	-4.5	7.0	45.0	-	52.2	-7.2
10:00 AM - 11:00 AM	51.5	56.5	-5.0	7.0	44.5	-	52.2	-7.7
11:00 AM - 12:00 PM	63.5	56.5	7.0	1.0	62.5	-	52.2	10.3
12:00 PM - 01:00 PM	51.3	56.5	-5.2	7.0	44.3	-	52.2	-7.9
01:00 PM - 02:00 PM	49.3	56.5	-7.2	7.0	42.3	-	52.2	-9.9
02:00 PM - 03:00 PM	51.3	56.5	-5.2	7.0	44.3	-	52.2	-7.9
คำมาตรฐาน								≤ 10

Reference Method : ISO 1996-1
มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
3. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561

ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 21-22 กันยายน 2566
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน วันที่ตรวจวัด 5-6 มีนาคม 2556

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Approved by

Wilawan Borirak
Manager

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

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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791155-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-5
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยมาบยางพร
Measurement Date Sep 22 - 23, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด (A)	เสียงขณะไม่มีการรบกวน (B)	ผลต่างระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D) กลางวัน (A+C)	กลางคืน (A+C)+3	เสียงพื้นฐาน (E)	ค่าระดับการรบกวน (D-E)
03:00 PM - 04:00 PM	60.1	56.5	3.6	2.0	58.1	-	52.2	5.9
04:00 PM - 05:00 PM	58.9	56.5	2.4	4.5	54.4	-	52.2	2.2
05:00 PM - 06:00 PM	63.1	56.5	6.6	1.0	62.1	-	52.2	9.9
06:00 PM - 07:00 PM	50.1	56.5	-6.4	7.0	43.1	-	52.2	-9.1
07:00 PM - 08:00 PM	49.8	56.5	-6.7	7.0	42.8	-	52.2	-9.4
08:00 PM - 09:00 PM	49.1	56.5	-7.4	7.0	42.1	-	52.2	-10.1
09:00 PM - 10:00 PM	47.8	56.5	-8.7	7.0	40.8	-	52.2	-11.4
10:00 PM - 10:05 PM	46.6	53.5	-6.9	7.0	-	42.6	45.6	-3.0
10:05 PM - 10:10 PM	47.2	53.5	-6.3	7.0	-	43.2	45.6	-2.4
10:10 PM - 10:15 PM	48.2	53.5	-5.3	7.0	-	44.2	45.6	-1.4
10:15 PM - 10:20 PM	51.2	53.5	-2.3	7.0	-	47.2	45.6	1.6
10:20 PM - 10:25 PM	46.7	53.5	-6.8	7.0	-	42.7	45.6	-2.9
10:25 PM - 10:30 PM	46.6	53.5	-6.9	7.0	-	42.6	45.6	-3.0
10:30 PM - 10:35 PM	48.0	53.5	-5.5	7.0	-	44.0	45.6	-1.6
10:35 PM - 10:40 PM	49.4	53.5	-4.1	7.0	-	45.4	45.6	-0.2
10:40 PM - 10:45 PM	55.9	53.5	2.4	4.5	-	54.4	45.6	8.8
10:45 PM - 10:50 PM	61.9	53.5	8.4	0.5	-	64.4	45.6	18.8
10:50 PM - 10:55 PM	56.7	53.5	3.2	3.0	-	56.7	45.6	11.1
10:55 PM - 11:00 PM	46.1	53.5	-7.4	7.0	-	42.1	45.6	-3.5
11:00 PM - 11:05 PM	46.3	53.5	-7.2	7.0	-	42.3	45.6	-3.3
11:05 PM - 11:10 PM	46.3	53.5	-7.2	7.0	-	42.3	45.6	-3.3
11:10 PM - 11:15 PM	47.8	53.5	-5.7	7.0	-	43.8	45.6	-1.8
11:15 PM - 11:20 PM	47.0	53.5	-6.5	7.0	-	43.0	45.6	-2.6
11:20 PM - 11:25 PM	45.8	53.5	-7.7	7.0	-	41.8	45.6	-3.8
11:25 PM - 11:30 PM	45.0	53.5	-8.5	7.0	-	41.0	45.6	-4.6
11:30 PM - 11:35 PM	45.5	53.5	-8.0	7.0	-	41.5	45.6	-4.1
11:35 PM - 11:40 PM	45.2	53.5	-8.3	7.0	-	41.2	45.6	-4.4
11:40 PM - 11:45 PM	45.0	53.5	-8.5	7.0	-	41.0	45.6	-4.6
11:45 PM - 11:50 PM	46.0	53.5	-7.5	7.0	-	42.0	45.6	-3.6
11:50 PM - 11:55 PM	45.2	53.5	-8.3	7.0	-	41.2	45.6	-4.4
11:55 PM - 12:00 AM	45.9	53.5	-7.6	7.0	-	41.9	45.6	-3.7
12:00 AM - 12:05 AM	46.2	53.5	-7.3	7.0	-	42.2	45.6	-3.4
12:05 AM - 12:10 AM	45.9	53.5	-7.6	7.0	-	41.9	45.6	-3.7
12:10 AM - 12:15 AM	47.5	53.5	-6.0	7.0	-	43.5	45.6	-2.1
12:15 AM - 12:20 AM	47.5	53.5	-6.0	7.0	-	43.5	45.6	-2.1
12:20 AM - 12:25 AM	46.3	53.5	-7.2	7.0	-	42.3	45.6	-3.3
12:25 AM - 12:30 AM	45.1	53.5	-8.4	7.0	-	41.1	45.6	-4.5
12:30 AM - 12:35 AM	44.5	53.5	-9.0	7.0	-	40.5	45.6	-5.1
12:35 AM - 12:40 AM	44.7	53.5	-8.8	7.0	-	40.7	45.6	-4.9
12:40 AM - 12:45 AM	44.4	53.5	-9.1	7.0	-	40.4	45.6	-5.2

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Approved by

Wilawan Borirak
Manager

Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791155-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-5
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยมาบยางพร
Measurement Date Sep 22 - 23, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))								
เวลา	เสียงจากแหล่งกำเนิด (A)	เสียงขณะไม่มีการรบกวน (B)	ผลต่างระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D) กลางวัน (A+C)	กลางคืน (A+C)+3	เสียงพื้นฐาน (E)	ค่าระดับการรบกวน (D-E)
12:45 AM - 12:50 AM	43.7	53.5	-9.8	7.0	-	39.7	45.6	-5.9
12:50 AM - 12:55 AM	43.4	53.5	-10.1	7.0	-	39.4	45.6	-6.2
12:55 AM - 01:00 AM	44.5	53.5	-9.0	7.0	-	40.5	45.6	-5.1
01:00 AM - 01:05 AM	45.5	53.5	-8.0	7.0	-	41.5	45.6	-4.1
01:05 AM - 01:10 AM	44.5	53.5	-9.0	7.0	-	40.5	45.6	-5.1
01:10 AM - 01:15 AM	43.0	53.5	-10.5	7.0	-	39.0	45.6	-6.6
01:15 AM - 01:20 AM	43.0	53.5	-10.5	7.0	-	39.0	45.6	-6.6
01:20 AM - 01:25 AM	44.1	53.5	-9.4	7.0	-	40.1	45.6	-5.5
01:25 AM - 01:30 AM	43.4	53.5	-10.1	7.0	-	39.4	45.6	-6.2
01:30 AM - 01:35 AM	42.9	53.5	-10.6	7.0	-	38.9	45.6	-6.7
01:35 AM - 01:40 AM	43.0	53.5	-10.5	7.0	-	39.0	45.6	-6.6
01:40 AM - 01:45 AM	43.7	53.5	-9.8	7.0	-	39.7	45.6	-5.9
01:45 AM - 01:50 AM	42.9	53.5	-10.6	7.0	-	38.9	45.6	-6.7
01:50 AM - 01:55 AM	42.6	53.5	-10.9	7.0	-	38.6	45.6	-7.0
01:55 AM - 02:00 AM	42.4	53.5	-11.1	7.0	-	38.4	45.6	-7.2
02:00 AM - 02:05 AM	42.7	53.5	-10.8	7.0	-	38.7	45.6	-6.9
02:05 AM - 02:10 AM	43.7	53.5	-9.8	7.0	-	39.7	45.6	-5.9
02:10 AM - 02:15 AM	42.7	53.5	-10.8	7.0	-	38.7	45.6	-6.9
02:15 AM - 02:20 AM	42.4	53.5	-11.1	7.0	-	38.4	45.6	-7.2
02:20 AM - 02:25 AM	42.5	53.5	-11.0	7.0	-	38.5	45.6	-7.1
02:25 AM - 02:30 AM	42.7	53.5	-10.8	7.0	-	38.7	45.6	-6.9
02:30 AM - 02:35 AM	42.0	53.5	-11.5	7.0	-	38.0	45.6	-7.6
02:35 AM - 02:40 AM	40.9	53.5	-12.6	7.0	-	36.9	45.6	-8.7
02:40 AM - 02:45 AM	41.6	53.5	-11.9	7.0	-	37.6	45.6	-8.0
02:45 AM - 02:50 AM	41.8	53.5	-11.7	7.0	-	37.8	45.6	-7.8
02:50 AM - 02:55 AM	41.2	53.5	-12.3	7.0	-	37.2	45.6	-8.4
02:55 AM - 03:00 AM	41.8	53.5	-11.7	7.0	-	37.8	45.6	-7.8
03:00 AM - 03:05 AM	41.3	53.5	-12.2	7.0	-	37.3	45.6	-8.3
03:05 AM - 03:10 AM	42.4	53.5	-11.1	7.0	-	38.4	45.6	-7.2
03:10 AM - 03:15 AM	42.5	53.5	-11.0	7.0	-	38.5	45.6	-7.1
03:15 AM - 03:20 AM	41.5	53.5	-12.0	7.0	-	37.5	45.6	-8.1
03:20 AM - 03:25 AM	41.7	53.5	-11.8	7.0	-	37.7	45.6	-7.9
03:25 AM - 03:30 AM	41.7	53.5	-11.8	7.0	-	37.7	45.6	-7.9
03:30 AM - 03:35 AM	41.5	53.5	-12.0	7.0	-	37.5	45.6	-8.1
03:35 AM - 03:40 AM	42.2	53.5	-11.3	7.0	-	38.2	45.6	-7.4
03:40 AM - 03:45 AM	42.8	53.5	-10.7	7.0	-	38.8	45.6	-6.8
03:45 AM - 03:50 AM	41.5	53.5	-12.0	7.0	-	37.5	45.6	-8.1
03:50 AM - 03:55 AM	41.9	53.5	-11.6	7.0	-	37.9	45.6	-7.7
03:55 AM - 04:00 AM	49.9	53.5	-3.6	7.0	-	45.9	45.6	0.3
04:00 AM - 04:05 AM	42.2	53.5	-11.3	7.0	-	38.2	45.6	-7.4

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Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
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Analysis / Test Report

TESTING
No.0042

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140

Lot ID: 23107697
Date Received :Sep 26, 2023
Date Reported :Oct 10, 2023
Report Number : 2791155-1

P/O : 2301110013
Project Name : ABPR 1
Project Location :

Sample No. 23107697-S
Parameter เสียงรบกวน
Location บริเวณสถานีอนามัยนามบางพร
Measurement Date Sep 22 - 23, 2023
Measurement by Nontachai Uppathamp
Sound Level Meter 00734220

ระดับเสียง (dB(A))

เวลา	เสียงจากแหล่งกำเนิด (A)	เสียงขณะไม่มีการรบกวน (B)	ผลต่างระดับเสียง (A-B)	ตัวปรับค่า (C)	ปรับค่าเสียงจากแหล่งกำเนิด (D) กลางวัน (A-C)	กลางคืน (A-C)+3	เสียงพื้นฐาน (E)	ค่าระดับการรบกวน (D-E)
04:05 AM - 04:10 AM	42.5	53.5	-11.0	7.0	-	38.5	45.6	-7.1
04:10 AM - 04:15 AM	42.4	53.5	-11.1	7.0	-	38.4	45.6	-7.2
04:15 AM - 04:20 AM	41.8	53.5	-11.7	7.0	-	37.8	45.6	-7.8
04:20 AM - 04:25 AM	48.0	53.5	-5.5	7.0	-	44.0	45.6	-1.6
04:25 AM - 04:30 AM	42.1	53.5	-11.4	7.0	-	38.1	45.6	-7.5
04:30 AM - 04:35 AM	46.5	53.5	-7.0	7.0	-	42.5	45.6	-3.1
04:35 AM - 04:40 AM	44.9	53.5	-8.6	7.0	-	40.9	45.6	-4.7
04:40 AM - 04:45 AM	42.1	53.5	-11.4	7.0	-	38.1	45.6	-7.5
04:45 AM - 04:50 AM	42.8	53.5	-10.7	7.0	-	38.8	45.6	-6.8
04:50 AM - 04:55 AM	42.8	53.5	-10.7	7.0	-	38.8	45.6	-6.8
04:55 AM - 05:00 AM	44.4	53.5	-9.1	7.0	-	40.4	45.6	-5.2
05:00 AM - 05:05 AM	47.1	53.5	-6.4	7.0	-	43.1	45.6	-2.5
05:05 AM - 05:10 AM	49.0	53.5	-4.5	7.0	-	45.0	45.6	-0.6
05:10 AM - 05:15 AM	56.9	53.5	3.4	3.0	-	56.9	45.6	11.3
05:15 AM - 05:20 AM	71.8	53.5	18.3	0.0	-	74.8	45.6	29.2
05:20 AM - 05:25 AM	66.9	53.5	13.4	0.0	-	69.9	45.6	24.3
05:25 AM - 05:30 AM	53.0	53.5	-0.5	7.0	-	49.0	45.6	3.4
05:30 AM - 05:35 AM	51.4	53.5	-2.1	7.0	-	47.4	45.6	1.8
05:35 AM - 05:40 AM	50.1	53.5	-3.4	7.0	-	46.1	45.6	0.5
05:40 AM - 05:45 AM	51.3	53.5	-2.2	7.0	-	47.3	45.6	1.7
05:45 AM - 05:50 AM	52.8	53.5	-0.7	7.0	-	48.8	45.6	3.2
05:50 AM - 05:55 AM	51.9	53.5	-1.6	7.0	-	47.9	45.6	2.3
05:55 AM - 06:00 AM	56.7	53.5	3.2	3.0	-	56.7	45.6	11.1
06:00 AM - 07:00 AM	54.0	56.5	-2.5	7.0	47.0	-	52.2	-5.2
07:00 AM - 08:00 AM	62.7	56.5	6.2	1.5	61.2	-	52.2	9.0
08:00 AM - 09:00 AM	55.2	56.5	-1.3	7.0	48.2	-	52.2	-4.0
09:00 AM - 10:00 AM	55.3	56.5	-1.2	7.0	48.3	-	52.2	-3.9
10:00 AM - 11:00 AM	52.9	56.5	-3.6	7.0	45.9	-	52.2	-6.3
11:00 AM - 12:00 PM	64.6	56.5	8.1	0.5	64.1	-	52.2	11.9
12:00 PM - 01:00 PM	52.9	56.5	-3.6	7.0	45.9	-	52.2	-6.3
01:00 PM - 02:00 PM	53.1	56.5	-3.4	7.0	46.1	-	52.2	-6.1
02:00 PM - 03:00 PM	52.6	56.5	-3.9	7.0	45.6	-	52.2	-6.6
ค่ามาตรฐาน								≤ 10

Reference Method : ISO 1996-1
มาตรฐาน
1. ประกาศกระทรวงอุตสาหกรรม เรื่อง กำหนดค่าระดับเสียงการรบกวนและระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548
2. ประกาศกรมโรงงานอุตสาหกรรม เรื่อง วิธีการตรวจวัดระดับเสียงรบกวน ระดับเสียงเฉลี่ย 24 ชั่วโมง และระดับเสียงสูงสุดที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2553
3. ประกาศกระทรวงสาธารณสุข เรื่อง กำหนดค่ามาตรฐานมลพิษทางเสียงอันเกิดจากการประกอบกิจการที่เป็นอันตรายต่อสุขภาพ พ.ศ. 2561
ระดับเสียงจากแหล่งกำเนิด ทำการตรวจวัด วันที่ 22-23 กันยายน 2566
ระดับเสียงพื้นฐานและระดับเสียงขณะไม่มีการรบกวน วันที่ตรวจวัด 5-6 มีนาคม 2556

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Approved by

Wilawan Borirak
Manager

ADDRESS 616/10 Moo 5 T Maenam Khu A Pluakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
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ภาคผนวก ค-7

ระดับเสียงในสถานที่ทำงาน

Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23102187
Date Received : Sep 08, 2023
Date Reported : Sep 14, 2023
Report Number: 2772251-1

Sample Number 23102187-1
Parameter Noise (Leq 8 hrs.)
Location Gas Turbine Generator (GT 11)
Measurement Date Sep 08, 2023
Measurement by Santi Chaichana

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	74.5	79.0	74.2
09:30 AM - 10:30 AM	74.4	76.1	74.1
10:30 AM - 11:30 AM	74.7	76.4	74.3
11:30 AM - 12:30 PM	74.5	77.2	74.0
12:30 PM - 01:30 PM	75.7	78.3	75.0
01:30 PM - 02:30 PM	76.1	84.0	75.2
02:30 PM - 03:30 PM	76.2	78.7	75.3
03:30 PM - 04:30 PM	76.0	83.9	75.1
Leq Average 8 hrs. (dB(A))	75.3		
Lmax (dB(A))		84.0	
Standard (dB(A))	90	140	

Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management Thanita K.
Thanita Kulsuriwong
Scientist (4)

Approved by Supot S.
Supot Salamteh
Section Head

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23102187
Date Received : Sep 08, 2023
Date Reported : Sep 14, 2023
Report Number: 2772252-1

Sample Number 23102187-2
Parameter Noise (Leq 8 hrs.)
Location Air Compressor
Measurement Date Sep 08, 2023
Measurement by Santi Chaichana

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	78.1	81.6	77.4
09:30 AM - 10:30 AM	78.2	80.9	77.4
10:30 AM - 11:30 AM	78.3	81.9	77.3
11:30 AM - 12:30 PM	78.4	83.1	77.3
12:30 PM - 01:30 PM	78.4	82.5	76.9
01:30 PM - 02:30 PM	78.5	85.3	77.1
02:30 PM - 03:30 PM	78.5	83.4	77.1
03:30 PM - 04:30 PM	78.2	82.0	76.9
Leq Average 8 hrs. (dB(A))	78.3		
Lmax (dB(A))		85.3	
Standard (dB(A))	90	140	

Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๔๖

Technical Management Thanita K.
Thanita Kulsuriwong
Scientist (4)

Approved by Supot S.
Supot Salamteh
Section Head

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23102187
Date Received : Sep 08, 2023
Date Reported : Sep 14, 2023
Report Number: 2772253-1

Sample Number	23102187-3
Parameter	Noise (Leq 8 hrs.)
Location	Steam Tyrbine (ST 10)
Measurement Date	Sep 08, 2023
Measurement by	Santi Chaichana

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
08:30 AM - 09:30 AM	73.7	76.5	73.1
09:30 AM - 10:30 AM	73.8	77.0	73.2
10:30 AM - 11:30 AM	73.5	75.6	73.0
11:30 AM - 12:30 PM	73.5	75.9	72.9
12:30 PM - 01:30 PM	73.0	75.1	72.5
01:30 PM - 02:30 PM	73.1	80.6	72.5
02:30 PM - 03:30 PM	73.1	74.7	72.6
03:30 PM - 04:30 PM	73.1	75.3	72.6
Leq Average 8 hrs. (dB(A))	73.4		
Lmax (dB(A))		80.6	
Standard (dB(A))	90	140	

Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖

Technical Management Thanita K.
Thanita Kulsuriwong
Scientist (4)

Approved by Supot S.
Supot Salamteh
Section Head

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23139254
Date Received : Dec 04, 2023
Date Reported : Dec 07, 2023
Report Number: 2857212-1

Sample Number	23139254-1
Parameter	Noise (Leq 8 hrs.)
Location	Gas Turbine Generator (GT 12)
Measurement Date	Dec 04, 2023
Measurement by	Peerapat Kahkam

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	78.9	82.7	78.0
10:00 AM - 11:00 AM	79.2	83.0	78.3
11:00 AM - 12:00 PM	79.6	83.4	78.7
12:00 PM - 01:00 PM	79.5	83.3	78.6
01:00 PM - 02:00 PM	79.4	82.4	78.9
02:00 PM - 03:00 PM	79.3	81.8	78.8
03:00 PM - 04:00 PM	80.1	83.9	79.4
04:00 PM - 05:00 PM	80.0	83.8	79.1
Leq Average 8 hrs. (dB(A))	79.5		
Lmax (dB(A))		83.9	
Standard (dB(A))	90	140	

Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖

Technical Management Thanita K.
Thanita Kulsuriwong
Scientist (4)

Approved by Supot S.
Supot Salamteh
Section Head

ADDRESS 616/10 Moo 5 T. Maenam Khu A. Pluakdaeng Rayong 21140 Thailand PHONE +66 0 3304 8555 FAX +66 0 3304 8556
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23139254
Date Received : Dec 04, 2023
Date Reported : Dec 07, 2023
Report Number: 2857213-1

Sample Number 23139254-2
Parameter Noise (Leq 8 hrs.)
Location Air Compressor
Measurement Date Dec 04, 2023
Measurement by Peerapat Kahkam

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	76.4	80.5	75.4
10:00 AM - 11:00 AM	76.4	78.6	75.3
11:00 AM - 12:00 PM	76.4	83.3	75.2
12:00 PM - 01:00 PM	86.2	96.4	75.9
01:00 PM - 02:00 PM	77.9	81.6	76.5
02:00 PM - 03:00 PM	77.3	80.1	76.1
03:00 PM - 04:00 PM	77.7	91.9	76.1
04:00 PM - 05:00 PM	84.7	94.9	74.4
Leq Average 8 hrs. (dB(A))	81.0		
Lmax (dB(A))		96.4	
Standard (dB(A))	90	140	

Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖

Technical Management Thanita K.
Thanita Kulsunwong
Scientist (4)

Approved by Supot S.
Supot Salamteh
Section Head

Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 23139254
Date Received : Dec 04, 2023
Date Reported : Dec 07, 2023
Report Number: 2857214-1

Sample Number 23139254-3
Parameter Noise (Leq 8 hrs.)
Location Steam Turbine (ST 10)
Measurement Date Dec 04, 2023
Measurement by Peerapat Kahkam

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	74.3	76.7	73.7
10:00 AM - 11:00 AM	74.1	76.8	73.4
11:00 AM - 12:00 PM	74.1	77.2	73.2
12:00 PM - 01:00 PM	74.4	77.3	73.6
01:00 PM - 02:00 PM	73.4	77.1	72.8
02:00 PM - 03:00 PM	73.4	76.3	72.8
03:00 PM - 04:00 PM	74.4	78.3	73.4
04:00 PM - 05:00 PM	74.6	77.5	73.8
Leq Average 8 hrs. (dB(A))	74.1		
Lmax (dB(A))		78.3	
Standard (dB(A))	90	140	

Reference Method : ISO1996-1 and 1996-2
Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย ในการประกอบกิจการโรงงานเกี่ยวกับสภาวะแวดล้อมในการทำงาน พ.ศ.๒๕๕๖

Technical Management Thanita K.
Thanita Kulsunwong
Scientist (4)

Approved by Supot S.
Supot Salamteh
Section Head

ภาคผนวก ค-8

ระดับความร้อนในสถานประกอบการ

Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 2337955
Date Received : Apr 06, 2023
Date Reported : Apr 10, 2023
Report Number: 2613143-1

Sample Number	2337955-1
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date	Apr 06, 2023
Measurement by	Tinnakorn Kumpasee
Location	ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
หม้อไอน้ำ	120	30.3	26.4	40.8	36.5
Average (WBGT)		30.3			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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ADDRESS 104 Phatthanakan 40, Phatthanakan Rd , Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand PHONE +66 0 2760 3000 FAX +66 0 2760 3197
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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 1 Limited
7/316 Moo 6, Mabyangporn, Pluakdaeng, Rayong Thailand 21140
P/O : 2301110013
Project Name : ABPR 1
Project Location :

Lot ID: 2337955
Date Received : Apr 06, 2023
Date Reported : Apr 10, 2023
Report Number: 2613143-1

Sample Number	2337955-2
Parameter	Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)
Measurement Date	Apr 06, 2023
Measurement by	Tinnakorn Kumpasee
Location	ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : -)

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
เครื่องกำเนิดไฟฟ้า	120	32.1	27.5	44.6	39.5
Average (WBGT)		32.1			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Phatthanakan, Khet Suan Luang, Bangkok 10250 Thailand : PHONE +66 0 2760 3000 : FAX +66 0 2760 3197
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