

ภาคผนวก ค

ผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม

ภาคผนวก ค-1

คุณภาพอากาศจากปล่อง



Analysis / Test Report

Client: Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabyangpoom, Pluak Daeng,
Rayong Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :

Sample Number 23107731-1
Sample Date Sep 19, 2023
Sample Description Emission from Stationary Source
Location อุบลราชธานี (HRSC) #21 (GPS 47P 0728635, 1436038)
Date Analysis Commenced Sep 20, 2023
Condition of Sample Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, one 10-L air sampling bag and one amber plastic bottle, refrigerated

Stack Description									
Analyte	Sampled Time	Unit	LOD	LOQ (LOQ)	Result	Guideline Limit	Method	Testing Location	
Air Testing									
Carbon Monoxide *	10:30 AM - 10:40 AM	ppm	-	1.0	<1.0	<1.0	United States Environmental Protection Agency, EPA Method 10	Rayong	
Oxides of Nitrogen *	10:10 AM - 10:20 AM	ppm	-	1.06	20.3	8.32	United States Environmental Protection Agency, EPA Method 7	Rayong	
Sulfur dioxide *	10:00 AM - 12:00 PM	ppm	-	0.5	<0.5	<0.5	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	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

Thanitak.

Approved by

Dhanu.

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

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8754-71/EMAIL

S.Vepornai_Air Stack_O2_GL_04 (12-49PM)



Analysis / Test Report

Client: Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabyangpoom, Pluak Daeng,
Rayong Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :

Sample Number 23107731-1
Sample Date Sep 19, 2023
Sample Description Emission from Stationary Source
Location อุบลราชธานี (HRSC) #21 (GPS 47P 0728635, 1436038)
Date Analysis Commenced Sep 20, 2023
Condition of Sample Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, one 10-L air sampling bag and one amber plastic bottle, refrigerated

Stack Description									
Analyte	Sampled Time	Unit	LOD	LOQ (LOQ)	Result	Guideline Limit	Method	Testing Location	
Air Testing									
Carbon Monoxide *	10:30 AM - 10:40 AM	kg/day	-	-	<9.8	No Standard	Calculated	Rayong	
Carbon Monoxide *	10:30 AM - 10:40 AM	g/s	-	-	<0.113	No Standard	Calculated	Rayong	
Oxides of Nitrogen *	10:10 AM - 10:20 AM	g/s	-	-	1.607	No Standard	Calculated	Rayong	
Oxides of Nitrogen *	10:10 AM - 10:20 AM	kg/day	-	-	139	No Standard	Calculated	Rayong	
Sulfur dioxide *	10:00 AM - 12:00 PM	g/s	-	-	<0.134	No Standard	Calculated	Rayong	
Sulfur dioxide *	10:00 AM - 12:00 PM	kg/day	-	-	<11.54	No Standard	Calculated	Rayong	
Total Suspended Particulate *	10:00 AM - 11:00 AM	g/s	-	-	<0.051	No Standard	Calculated	Rayong	
Total Suspended Particulate *	10:00 AM - 11:00 AM	kg/day	-	-	<4.44	No Standard	Calculated	Rayong	

Sampled By : Warawut Pulpia

Remark :

- LOD : Limit of Detection
- *-C* : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
- *Analyte(s) marked * (were 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

Thanitak.

Approved by

Dhanu.

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

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8754-71/EMAIL

S.Vepornai_Air Stack_O2_GL_04 (12-49PM)



Analysis / Test Report

Lot ID: 23107731
Date Received : Sep 19, 2023
Date Reported : Sep 27, 2023
Report Number: 2776021-1

Page 2 of 2



Analysis / Test Report



TESTING
No.0042

Lot ID: 23107733

Date Received : Sep 19, 2023
Date Reported : Sep 27, 2023
Report Number: 2776024-1

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabhyangpoom, Phuk Daeng,
Rayong, Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Page 1 of 2

Sample Number	23107733-1
Sampled Date	Sep 19, 2023
Sample Description	Emission from Stationary Source
Location	Ulaa-wu-bu-da-lah (HSG) #22 (GPS 47P 0728631, 1436071)
Date Analysis Commenced	Sep 20, 2023
Condition of Sample	Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, 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	3.6	%	
Type of Process	Combustion		Stack Temperature	101	°C	Gas Velocity	22.1	m/s	
Type of Fuel	Natural Gas		Moisture	7.41	%	Flow Rate (Actual O2)	382058	Nm3/hr	
Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location	
Air Testing									
Carbon Monoxide *	01:10 PM - 01:20 PM	ppm	-	1.0	<1.0	<1.0	No Standard	United States Environmental Protection Agency, EPA Method 10	Rayong
Oxides of Nitrogen *	01:00 PM - 01:10 PM	ppm	-	1.06	26.0	12.16	120	United States Environmental Protection Agency, EPA Method 7	Rayong
Sulfur dioxide *	12:30 PM - 02:30 PM	ppm	-	0.5	<0.5	<0.5	20	United States Environmental Protection Agency, EPA Method 6	Rayong
Total Suspended Particulate	12:30 PM - 01:30 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
Thanitak.

Approved by

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

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S:\Reports_Air Stack_O2_GL pr (12-48PM)



Analysis / Test Report



TESTING
No.0042

Lot ID: 23107733

Date Received : Sep 19, 2023
Date Reported : Sep 27, 2023
Report Number: 2776024-1

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabhyangpoom, Phuk Daeng,
Rayong, Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Page 2 of 2

Sample Number	23107733-1
Sampled Date	Sep 19, 2023
Sample Description	Emission from Stationary Source
Location	Ulaa-wu-bu-da-lah (HSG) #22 (GPS 47P 0728631, 1436071)
Date Analysis Commenced	Sep 20, 2023
Condition of Sample	Extracted into two 2-L collection flasks, one filter paper placed in plastic petri dish, 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	3.6	%	
Type of Process	Combustion		Stack Temperature	101	°C	Gas Velocity	22.1	m/s	
Type of Fuel	Natural Gas		Moisture	7.41	%	Flow Rate (Actual O2)	382058	Nm3/hr	
Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Testing Location	
Air Testing									
Carbon Monoxide *	01:10 PM - 01:20 PM	kg/day	-	-	<10.1	No Standard	Calculated	Rayong	
Carbon Monoxide *	01:10 PM - 01:20 PM	g/s	-	-	<0.117	No Standard	Calculated	Rayong	
Oxides of Nitrogen *	01:00 PM - 01:10 PM	g/s	-	-	2.436	No Standard	Calculated	Rayong	
Oxides of Nitrogen *	01:00 PM - 01:10 PM	kg/day	-	-	211	No Standard	Calculated	Rayong	
Sulfur dioxide *	12:30 PM - 02:30 PM	g/s	-	-	<0.138	No Standard	Calculated	Rayong	
Sulfur Dioxide *	12:30 PM - 02:30 PM	kg/day	-	-	<11.92	No Standard	Calculated	Rayong	
Total Suspended Particulate *	12:30 PM - 01:30 PM	g/s	-	-	<0.053	No Standard	Calculated	Rayong	
Total Suspended Particulate *	12:30 PM - 01:30 PM	kg/day	-	-	<4.58	No Standard	Calculated	Rayong	

Sampled By : Waiwut Puap

Remark :

- LOQ : Limit of Detection
- "x" : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
- Analyte(s) marked * where 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
Thanitak.

Approved by

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

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S:\Reports_Air Stack_O2_GL pr (12-48PM)

ภาคผนวก ค-2

คุณภาพอากาศในบรรยากาศ



Analysis / Test Report

Client: Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Maeyangpoom, Puak Daeng, Rayong
Thailand 21140
P/O : 221320042
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775749-1C1
Lot ID: 23107673

P/O : 221320042

Project Name : ABPR 2

Project Location :

Page 1 of 1

Sample Description		Air Quality	
Location	Parameter	Nitrogen dioxide (ppm)	
Measurement Date		Sep 18, 2023 - Sep 25, 2023	
Measurement by		Nontachai Uppathamp	
		23107673-1	23107673-2
Time		Sep 18, 2023	Sep 19, 2023
11:00 AM - 12:00 PM		0.007	0.006
12:00 PM - 01:00 PM		0.009	0.006
01:00 PM - 02:00 PM		0.003	0.004
02:00 PM - 03:00 PM		0.006	0.005
03:00 PM - 04:00 PM		0.006	0.006
04:00 PM - 05:00 PM		0.005	0.004
05:00 PM - 06:00 PM		0.006	0.004
06:00 PM - 07:00 PM		0.006	0.004
07:00 PM - 08:00 PM		0.006	0.007
08:00 PM - 09:00 PM		0.006	0.005
09:00 PM - 10:00 PM		0.008	0.005
10:00 PM - 11:00 PM		0.009	0.005
11:00 PM - 12:00 AM		0.007	0.005
12:00 AM - 01:00 AM		0.006	0.007
01:00 AM - 02:00 AM		0.004	0.008
02:00 AM - 03:00 AM		0.005	0.008
03:00 AM - 04:00 AM		0.006	0.008
04:00 AM - 05:00 AM		0.005	0.007
05:00 AM - 06:00 AM		0.006	0.007
06:00 AM - 07:00 AM		0.004	0.004
07:00 AM - 08:00 AM		0.004	0.004
08:00 AM - 09:00 AM		0.004	0.004
09:00 AM - 10:00 AM		0.006	0.004
10:00 AM - 11:00 AM		0.005	0.003
Average		0.006	0.005
1hr - Maximum		0.009	0.008
Standard 1hr - Average		0.170	0.170
Standard			
: Notification of the National Environment Board No. 33, 2009 (B.E. 2552).			
Reference Method : US EPA/Method Part 50 App. F (Chemiluminescence)			

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Approved by

Savanya C.

**Chalermthai
Scientist (4)**

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14-00000



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Maabangporm, Puak Daeng, Rayong
Thailand 21140

Lot ID: 23107675
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775751-1C1

P/O : 221320042
Project Name : ABPR 2
Project Location :

Page 1 of 1

Sample Description		Air Quality		Page 1 of 1											
Location	Parameter	Air Quality													
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Location	Parameter	Air Quality													

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Approved by

Savanya C.

**Dr. Chalmthamrong
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Life Sciences

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03773-119



Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabhyangpoom, Pluak Daeng, Rayong
Thailand 21140
P/O : 221320042
Project Name : ABPR 2
Project Location :
Lot ID: 23107656
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775678-1C1

Page 1 of 1

Sample Description	Air Quality	23107656-1						
		23107656-1	23107656-2	23107656-3	23107656-4	23107656-5	23107656-6	23107656-7
Location	1515mhuang1w5							
Parameter	Nitrogen dioxide (ppm)							
Measurement Date	Sep 18, 2023 - Sep 25, 2023							
Measurement by	Nonitachai Uppathamp							
Time								
10:00 AM - 11:00 AM	0.014	0.028	0.004	0.002	0.003	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	0.002
12:00 PM - 01:00 PM	0.006	0.003	0.002	0.002	0.003	0.002	0.003	0.002
01:00 PM - 02:00 PM	0.005	0.015	0.002	0.002	0.013	0.006	0.006	0.002
02:00 PM - 03:00 PM	0.004	0.003	0.002	0.002	0.014	0.003	0.003	0.002
03:00 PM - 04:00 PM	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.002
04:00 PM - 05:00 PM	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.002
05:00 PM - 06:00 PM	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.002
06:00 PM - 07:00 PM	0.003	0.003	0.003	0.002	0.003	0.003	0.003	0.003
07:00 PM - 08:00 PM	0.003	0.003	0.003	0.002	0.003	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	0.003
09:00 PM - 10:00 PM	0.003	0.003	0.002	0.002	0.003	0.003	0.003	0.003
10:00 PM - 11:00 PM	0.001	0.003	0.003	0.003	0.003	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	0.003
12:00 AM - 01:00 AM	0.008	0.003	0.003	0.003	0.003	0.003	0.003	0.003
01:00 AM - 02:00 AM	0.003	0.003	0.003	0.002	0.003	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	0.003
03:00 AM - 04:00 AM	0.003	0.003	0.003	0.002	0.003	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	0.003
05:00 AM - 06:00 AM	0.004	0.003	0.003	0.002	0.002	0.003	0.003	0.003
06:00 AM - 07:00 AM	0.004	0.003	0.003	0.003	0.002	0.003	0.003	0.003
07:00 AM - 08:00 AM	0.009	0.003	0.003	0.003	0.003	0.003	0.003	0.003
08:00 AM - 09:00 AM	0.008	0.003	0.003	0.002	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	0.004	0.003
Average	0.005	0.004	0.003	0.002	0.004	0.003	0.003	0.003
1hr - Maximum	0.016	0.028	0.004	0.003	0.014	0.006	0.006	0.003
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170	0.170
Standard								
Reference Method	: Notification of the National Environment Board No. 33, 2009 (B.E. 2552); US EPA Method Part 50 App. F (Chromoluminescence)							

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Approved by

Saengya C.

Saranya Chalermitamrong
Scientist (4)

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9773-41



Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabhyangpoom, Pluak Daeng, Rayong
Thailand 21140
P/O : 221320042
Project Name : ABPR 2
Project Location :
Lot ID: 23107657
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775684-1C1

Page 1 of 1

Sample Description	Air Quality	23107657-1						
		23107657-1	23107657-2	23107657-3	23107657-4	23107657-5	23107657-6	23107657-7
Location	1515mhuang1w5							
Parameter	Sulfur Dioxide (ppm)							
Measurement Date	Sep 18, 2023 - Sep 25, 2023							
Measurement by	Nonitachai Uppathamp							
Time								
03:00 PM - 04:00 PM	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005
04:00 PM - 05:00 PM	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005
05:00 PM - 06:00 PM	0.004	0.004	0.005	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	0.005
07:00 PM - 08:00 PM	0.004	0.004	0.005	0.005	0.004	0.004	0.005	0.005
08:00 PM - 09:00 PM	0.004	0.004	0.005	0.005	0.004	0.004	0.005	0.005
09:00 PM - 10:00 PM	0.004	0.004	0.005	0.004	0.004	0.005	0.005	0.005
10:00 PM - 11:00 PM	0.004	0.004	0.005	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	0.004	0.004
12:00 AM - 01:00 AM	0.004	0.005	0.005	0.005	0.004	0.004	0.004	0.004
01:00 AM - 02:00 AM	0.004	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	0.005	0.004	0.004
03:00 AM - 04:00 AM	0.004	0.004	0.005	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	0.005	0.004	0.004
05:00 AM - 06:00 AM	0.004	0.004	0.005	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	0.005	0.004	0.004
07:00 AM - 08:00 AM	0.004	0.004	0.005	0.005	0.004	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.004	0.004	0.005	0.005	0.004	0.004	0.004	0.004
09:00 AM - 10:00 AM	0.004	0.004	0.005	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	0.005	0.004	0.005
11:00 AM - 12:00 PM	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005
12:00 PM - 01:00 PM	0.004	0.005	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	0.005
02:00 PM - 03:00 PM	0.004	0.005	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	0.005
1hr - Maximum	0.004	0.006	0.005	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	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Standard								
Reference Method	: 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); US EPA Method Part 53 and 58							

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9773-41



Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Maibangporm, Pluak Daeng, Rayong
Thailand 21140
P/O : 221320042
Project Name : ABPR 2
Project Location :
Lot ID: 23107676
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775753-1C1

Sample Description Location Parameter Measurement Date Measurement by	23107676-1		23107676-2		23107676-3		23107676-4		23107676-5		23107676-6		23107676-7	
	Time	Sep 18, 2023	Sep 19, 2023	Sep 20, 2023	Sep 21, 2023	Sep 22, 2023	Sep 23, 2023	Sep 24, 2023	Sep 25, 2023	Sep 26, 2023	Sep 27, 2023	Sep 28, 2023	Sep 29, 2023	Sep 30, 2023
11:00 AM - 12:00 PM	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
12:00 PM - 01:00 PM	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
01:00 PM - 02:00 PM	0.004	0.004	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
02:00 PM - 03:00 PM	0.004	0.004	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
03:00 PM - 04:00 PM	0.004	0.004	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
04:00 PM - 05:00 PM	0.004	0.004	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
05:00 PM - 06:00 PM	0.004	0.004	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
06:00 PM - 07:00 PM	0.004	0.004	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
07:00 PM - 08:00 PM	0.004	0.004	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
08:00 PM - 09:00 PM	0.004	0.004	0.004	0.004	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
09:00 PM - 10:00 PM	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
10:00 PM - 11:00 PM	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
11:00 PM - 12:00 AM	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
12:00 AM - 01:00 AM	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
01:00 AM - 02:00 AM	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
02:00 AM - 03:00 AM	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
03:00 AM - 04:00 AM	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
04:00 AM - 05:00 AM	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
05:00 AM - 06:00 AM	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
06:00 AM - 07:00 AM	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
07:00 AM - 08:00 AM	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
08:00 AM - 09:00 AM	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
09:00 AM - 10:00 AM	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
10:00 AM - 11:00 AM	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
Average	0.004	0.004	0.004	0.004	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
1hr - Maximum	0.005	0.005	0.005	0.005	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3	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	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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Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Maibangporm, Pluak Daeng, Rayong
Thailand 21140
P/O : 221320042
Project Name : ABPR 2
Project Location :
Lot ID: 23107678
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775754-1C1

Sample Description Location Parameter Measurement Date Measurement by	23107678-1		23107678-2		23107678-3		23107678-4		23107678-5		23107678-6		23107678-7	
	Time	Sep 18, 2023	Sep 19, 2023	Sep 20, 2023	Sep 21, 2023	Sep 22, 2023	Sep 23, 2023	Sep 24, 2023	Sep 25, 2023	Sep 26, 2023	Sep 27, 2023	Sep 28, 2023	Sep 29, 2023	Sep 30, 2023
12:00 PM - 01:00 PM	0.002	0.004	0.004	0.004	0.004	0.004	0.004	0.004	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	0.004	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	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.003
03:00 PM - 04:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.003
04:00 PM - 05:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.003
05:00 PM - 06:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.003
06:00 PM - 07:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	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	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.003
08:00 PM - 09:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.003
09:00 PM - 10:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.003
10:00 PM - 11:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.003
11:00 PM - 12:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.003
Average	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.004	0.004	0.004	0.004	0.003
1hr - Maximum	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.005	0.005	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	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	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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Analysis / Test Report

Lot ID: 23107661
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775716-1C1

Client: Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabhyangpoom, Pluak Daeng, Rayong
Thailand 21140
P/O : 221320042
Project Name : ABPR 2
Project Location :

Page 1 of 1

Sample Description	Air Quality	Time	23107661-1	23107661-2	23107661-3	23107661-4	23107661-5	23107661-6	23107661-7
Location	TsaiyongthugThrs		Sep 18, 2023	Sep 19, 2023	Sep 20, 2023	Sep 21, 2023	Sep 22, 2023	Sep 23, 2023	Sep 24, 2023
Parameter	Sulfur Dioxide (ppm)								
Measurement Date	Sep 18, 2023 - Sep 25, 2023								
Measurement by	Nontachai Uppalhang								

Time	23107661-1	23107661-2	23107661-3	23107661-4	23107661-5	23107661-6	23107661-7
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	0.004
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	0.004
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Standard	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Reference Method	: 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).						
	US EPA Method Part 53 and 58						

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Analysis / Test Report

Lot ID: 23107678
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number: 2775754-1C1

Client: Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabhyangpoom, Pluak Daeng, Rayong
Thailand 21140
P/O : 221320042
Project Name : ABPR 2
Project Location :

Page 1 of 1

Sample Description	Air Quality	Time	23107678-1	23107678-2	23107678-3	23107678-4	23107678-5	23107678-6	23107678-7
Location	TsaiyongthugThrs		Sep 18, 2023	Sep 19, 2023	Sep 20, 2023	Sep 21, 2023	Sep 22, 2023	Sep 23, 2023	Sep 24, 2023
Parameter	Sulfur Dioxide (ppm)								
Measurement Date	Sep 18, 2023 - Sep 25, 2023								
Measurement by	Nontachai Uppalhang								

Time	23107678-1	23107678-2	23107678-3	23107678-4	23107678-5	23107678-6	23107678-7
12:00 PM - 01:00 PM	0.004	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	0.004	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	0.12	0.12	0.12	0.12	0.12	0.12	0.12
Reference Method	: 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).						
	US EPA Method Part 53 and 58						

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97741



Analysis / Test Report



TESTING
No.0042

Lot ID: 23107664
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number : 2775742-1C1

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Maeyangom, Pluak Daeng, Rayong
Thailand 21140
P/O : 221320042
Project Name : ABPR 2
Project Location :

Page 1 of 1

Sample Description	Air Quality	Location	Date Analysis Commenced	Condition of Sample	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
Sample Number	Sampled Date	Sampled Date	Sampled Date	Sampled Date	Sampled Date	Sampled Date	Sampled Date	Sampled Date	Sampled Date
23107664-1	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023
23107664-2	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023
23107664-3	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023
23107664-4	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023
23107664-5	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023
23107664-6	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023
23107664-7	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023
Guideline	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J
Guideline : Notification of the National Environmental Board, No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Nontachai Uppathamp

Tharitak.

Approved by

Thanita Kulsriwong
Scientist (4)

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973-41



Analysis / Test Report



TESTING
No.0042

Lot ID: 23107689
Date Received : Sep 26, 2023
Date Reported : Oct 03, 2023
Report Number : 2775773-1C1

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Maeyangom, Pluak Daeng, Rayong
Thailand 21140
P/O : 221320042
Project Name : ABPR 2
Project Location :

Page 1 of 1

Sample Description	Air Quality	Location	Date Analysis Commenced	Condition of Sample	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
Sample Number	Sampled Date	Sampled Date	Sampled Date	Sampled Date	Sampled Date	Sampled Date	Sampled Date	Sampled Date	Sampled Date
23107689-1	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023	Sep 18 - Sep 19, 2023
23107689-2	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023	Sep 19 - Sep 20, 2023
23107689-3	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023	Sep 20 - Sep 21, 2023
23107689-4	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023	Sep 21 - Sep 22, 2023
23107689-5	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023	Sep 22 - Sep 23, 2023
23107689-6	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023	Sep 23 - Sep 24, 2023
23107689-7	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023	Sep 24 - Sep 25, 2023
Guideline	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33

Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B
Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J
Guideline : Notification of the National Environmental Board, No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Nontachai Uppathamp

Approved by

Tharitak.

Thanita Kulsriwong
Scientist (4)

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973-41



Analysis / Test Report

TESTING
No.0042

Lot ID: 23107692

7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabyangpoom, Pluak Daeng, Rayong
Thailand 21140
P/O : 221320042

Project Name : ABPR 2

Project Location :

Page 1 of 1

Sample Description	Air Quality				
Location	ifurufurufu (aauvhaufu?)				
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	0.187	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 Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

[illegible]

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

Sampled By: Nontachai Uppalham

Tharita K.

Approved by

Thanita Kulsuriwong

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9773-41



Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Muayangorn, Phrak Dueng, Rayong
Thailand 21140
P/O : 221320042
Project Name : ABPR 2
Project Location :

TESTING
No.0042
Lot ID: 23107669
Date Received : Sep 26, 2023
Date Reported : Oct 02, 2023
Report Number : 2775744-1C1

Page 1 of 1

Sample Description	Air Quality Location	Sampling Date	Total Suspended Particulate (mg/m ³)	Particulate Matter (PM-10) (mg/m ³)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
23107669-1	Tsaifunhuanghw	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 Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J
Guideline : Notification of the National Environmental Board, No.24, 2004 (B.E.2547) dated September 22, 2004
Sampled By : Nontachai Uppathamp

Approved by

Tharitat.

Thantia Kulsirirong
Scientist (4)

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ภาคผนวก ค-3

ความเร็วลมและทิศทางการลม



Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabhyangporn, Pluak Daeng, Rayong
Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :
Lot ID : 23107662
Date Received : Sep 26, 2023
Date Reported : Oct 04, 2023
Report Number : 2775717-1 C1

Sample Number : 23107662-1 to 7
Parameter : Wind Speed / Wind Direction
Location : ตำบลนาเกลือ อำเภอบางละมุง จังหวัดชลบุรี
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)
03:00 PM - 04:00 PM	1.5 175.0 S	1.5 341.0 NNW	0.7 103.0 ESE	0.8 307.0 NNW	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 NNW	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	0.4 172.0 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 WNW	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	2.7 266.0 SSW	1.5 206.0 SSW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

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Assistant General Manager

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Life Sciences

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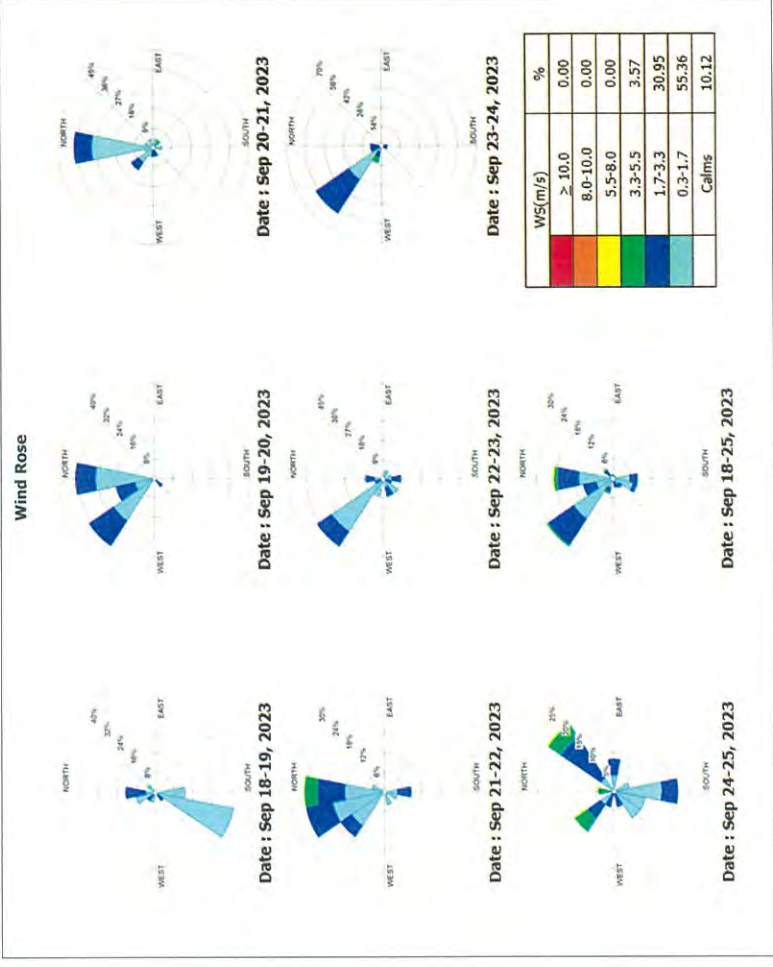
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Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabhyangporn, Pluak Daeng, Rayong
Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :
Lot ID : 23107662
Date Received : Sep 26, 2023
Date Reported : Oct 04, 2023
Report Number : 2775717-1 C1

Page 2 of 2



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Assistant General Manager

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Life Sciences

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Analysis / Test Report

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7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabyangporn, Pluak Daeng, Rayong
Thailand 12140
P/O : 230120016

Lot ID : 23107684
Date Received : Sep 26, 2023
Date Reported : Oct 04, 2023
Report Number : 2775763-1 C1

Page 2 of 2

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangporm, Pluak Daeng, Rayong
Thailand 21140
P/O : 230120016
Project Name : ABRP 2
Project Location :
Lot ID: 23107685
Date Received : Sep 26, 2023
Date Reported : Oct 04, 2023
Report Number : 2775765-1 C1

Page 1 of 2

Sample Number : 23107685-1 to 7
Parameter : Wind Speed / Wind Direction
Location : ตำบลนาบึงนาราง
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	255.0 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	231.0 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	28.0 WNW	0.5	288.0 WNW

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

Approved by

Sarayuth Jittrantont
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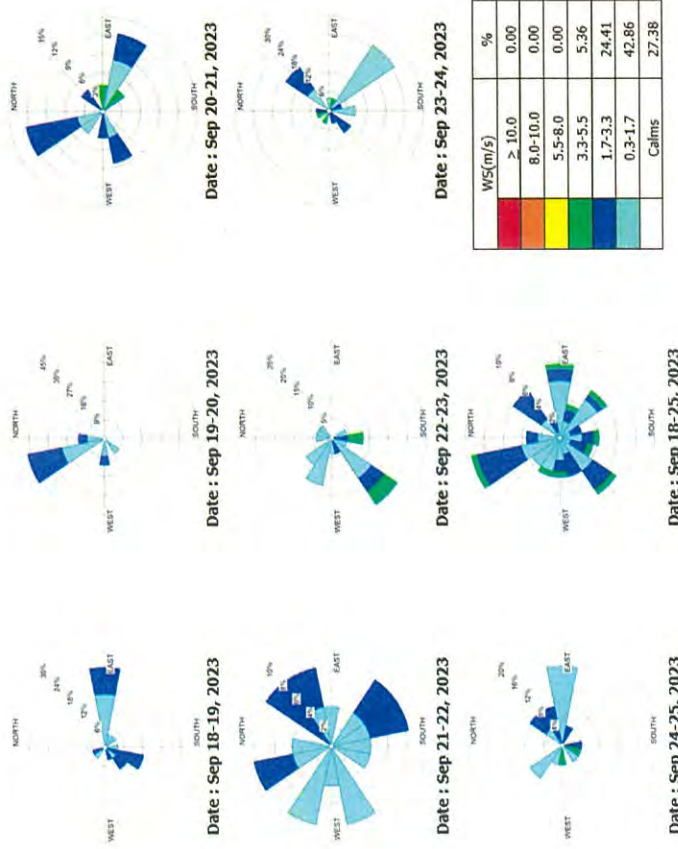


Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangporm, Pluak Daeng, Rayong
Thailand 21140
P/O : 230120016
Project Name : ABRP 2
Project Location :
Lot ID: 23107685
Date Received : Sep 26, 2023
Date Reported : Oct 04, 2023
Report Number : 2775765-1 C1

Page 2 of 2

Wind Rose



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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangpomi, Pluak Daeng, Rayong
Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :
Lot ID: 23107687
Date Received : Sep 26, 2023
Date Reported : Oct 04, 2023
Report Number : 2775772-1 C1

Page 1 of 2

Sample Number : 23107687-1 to 7

Parameter : Wind Speed / Wind Direction

Location : บ้านท่าช้าง (บ้านท่าช้าง)

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	240.0 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	295.0 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 Aluminum Vane Method

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

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Sarayuth Jitranont
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Analysis / Test Report

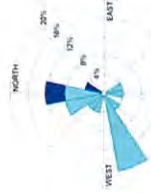
Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangpomi, Pluak Daeng, Rayong
Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :
Lot ID: 23107687
Date Received : Sep 26, 2023
Date Reported : Oct 04, 2023
Report Number : 2775772-1 C1

Page 2 of 2

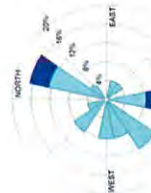
Wind Rose



Date : Sep 18-19, 2023



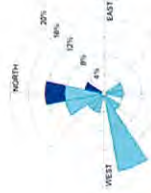
Date : Sep 20-21, 2023



Date : Sep 23-24, 2023



Date : Sep 22-23, 2023



Date : Sep 24-25, 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
Calm	24.40

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Analysis / Test Report

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7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabyangporm, Pluak Daeng, Rayong
Thailand 21140
P/O : 230120016
Project Name : ABR 2
Project Location :
Lot ID: 23107663
Date Received : Sep 26, 2023
Date Reported : Oct 04, 2023
Report Number : 2775719-1 C1

Sample Number : 23107663-1 to 7

Parameter : Wind Speed / Wind Direction

Location : ตำบลบ้านใหม่

Sampling Date : Sep 18 - Sep 25, 2023

Sampling by : นันทชัย อุปัทธาม

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	3.1	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 Jitrantorn
Assistant General Manager

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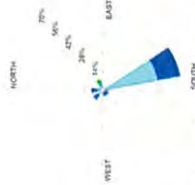
Sarayuth Jitrantorn
Assistant General Manager

Analysis / Test Report

Client : Anata B. Gimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabyangporm, Pluak Daeng, Rayong
Thailand 21140
P/O : 230120016
Project Name : ABR 2
Project Location :
Lot ID: 23107663
Date Received : Sep 26, 2023
Date Reported : Oct 04, 2023
Report Number : 2775719-1 C1

Page 1 of 2

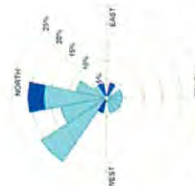
Wind Rose



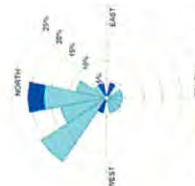
Date : Sep 18-19, 2023



Date : Sep 19-20, 2023



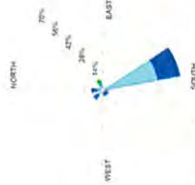
Date : Sep 20-21, 2023



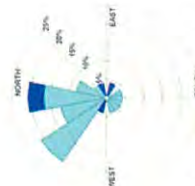
Date : Sep 21-22, 2023



Date : Sep 22-23, 2023



Date : Sep 23-24, 2023



Date : Sep 24-25, 2023

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

ภาคผนวก ค-4

คุณภาพน้ำทิ้ง



Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Maibyangpoom, Pluak Daeng,
Rayong Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :

TESTING
No.0042
Lot ID: 2370830
Date Received : Jul 17, 2023
Date Reported : Jul 24, 2023
Report Number : 2689252-1

Page 1 of 2

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	34	≤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	0.4	≤1	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 4500-CI (F)	Rayong
Temperature *	Degree C	-	-	32.4	≤45	Standard Methods for the Examination of Water and Wastewater. APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	2090	≤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	21	≤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 Hunchanaew testduanw 7-323-a-9457

Remark :

Technical Management

Narumon Banchongkit
Supervisor
testduanw 7-323-a-9445

Approved by

Dej Changchon
Senior Manager
testduanw 7-323-a-9442

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8794-717 EMAIL

S:\Reports\Lab GL\045 (4.3.049)



Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Maibyangpoom, Pluak Daeng,
Rayong Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :

TESTING
No.0042
Lot ID: 2370830
Date Received : Jul 17, 2023
Date Reported : Jul 24, 2023
Report Number : 2689252-1

Page 2 of 2

- LOD : Limit of Detection
- LOQ : Lower than LOQ (Limit of Quantitation) / LOQ (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
testduanw 7-323-a-9445

Approved by

Dej Changchon
Senior Manager
testduanw 7-323-a-9442

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S:\Reports\Lab GL\045 (4.3.049)



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Maibyangpoom, Puak Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location:

Lot ID: 2370830

Date Received : Jul 17, 2023
Date Reported : Jul 24, 2023
Report Number : 2689252-2

Page 1 of 1

Sample Number : 2370830-1
Sampled Date : Jul 17, 2023 12:05 PM
Sample Description : Wastewater
Location : วนอุทยานแห่งชาติเขาใหญ่ ABPR2
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	Result	LOQ (LOR)	Guideline / Specification	Method	Testing Location
Water Testing							
Flow rate	m ³ /s	-	0.024	-	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 Hunchaiwong

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

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N. Banphit

Narumon Banchoangkit
Supervisor

Approved by

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03-94711 EMAIL

S:\aporn\ALC_01.m (11/24/94)



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Maibyangpoom, Puak Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location:

Lot ID: 2382564

Date Received : Aug 07, 2023
Date Reported : Aug 15, 2023
Report Number : 2718115-1

Page 1 of 2

Sample Number : 2382564-1
Sampled Date : Aug 07, 2023 9:40 AM
Sample Description : Wastewater
Location : วนอุทยานแห่งชาติเขาใหญ่ ABPR2
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	Result	LOQ (LOR)	Guideline / Specification	Method	Testing Location
Water Testing							
800 (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	49	25	≤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-CI (F)	Rayong
Temperature *	Degree C	-	32.0	-	≤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	-	1780	5	≤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	-	12	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 : Parinrat Sattayakun รหัสประจำตัว 3-323-9-9476
Remark :

N. Banphit

Narumon Banchoangkit
Supervisor

Approved by

D. Chongchon

Deji Chongchon
Senior Manager

รหัสประจำตัว 3-323-9-9442

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Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Maibyangporm, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

TESTING
No.0042

Lot ID: 2382564
Date Received : Aug 07, 2023
Date Reported : Aug 15, 2023
Report Number : 2718115-1

Page 2 of 2

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

Technical Management

N. Banphit

Narumon Banchongkit
Supervisor

Approved by

D. Changchon

Dej Changchon
Senior Manager

โทรศัพท์ 0-323-9-9442

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5 (Report)_AN_Gr_Tp (11.2249)



Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Maibyangporm, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Lot ID: 2382564

Date Received : Aug 07, 2023
Date Reported : Aug 15, 2023
Report Number : 2718115-2

Page 1 of 1

Sample Number 2382564-1

Sample Date Aug 07, 2023 9:40 AM

Sample Description Wastewater

Location จังหวัดระยอง Testing ABPR2

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
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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)

Approved by

N. Banphit

Narumon Banchongkit
Supervisor

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5 (Report)_AN_Gr_Tp (11.2249)



Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabyangpoom, Pluek Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Sample Number 23102656-1

Sample Date Sep 11, 2023 9:35 AM

Sample Description Wastewater

Location Wastewater Treatment ABPR2

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	47	≤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 *	-	-	-	8.2	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	-	-	31.0	≤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	<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 Sontayakun รหัสงาน 3-323-a-9476

Remark :

Technical Management

N. Banphit

Natamon Banchoangkit
Supervisor
รหัสงาน 3-323-a-9445

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
รหัสงาน 3-323-a-9442

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8754-711/ENAL

S:\9\90001\AL\AL_01_01 (11-509P)



Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabyangpoom, Pluek Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Sample Number 23102656-1

Sample Date Sep 11, 2023 9:35 AM

Sample Description Wastewater

Location Wastewater Treatment ABPR2

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	47	≤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 *	-	-	-	8.2	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	-	-	31.0	≤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	<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 Sontayakun รหัสงาน 3-323-a-9476

Remark :

Technical Management

N. Banphit

Natamon Banchoangkit
Supervisor
รหัสงาน 3-323-a-9445

Approved by

D. Chongchon

Dej Chongchon
Senior Manager
รหัสงาน 3-323-a-9442

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S:\9\90001\AL\AL_01_01 (11-509P)

TESTING

No.0042

Lot ID: 23102656

Date Received : Sep 11, 2023

Date Reported : Sep 18, 2023

Report Number : 2762909-1

Page 2 of 2



Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabyangporm, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Lot ID: 23102656
Date Received : Sep 11, 2023
Date Reported : Sep 18, 2023
Report Number : 2762909-2

Page 1 of 1

Sample Number	23102656-1
Sampled Date	Sep 11, 2023 9:35 AM
Sample Description	Wastewater
Location	โรงงานน้ำตาลทรายดิบ ABPR2
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	m ³ /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
- LOR : Lower Limit LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Narumon Banchoangkit
Supervisor

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874-731 ENCL

S. Jirapornchai, Co. opt. (4-0894)



Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabyangporm, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

TESTING
No.0042
Lot ID: 23110991
Date Received : Oct 09, 2023
Date Reported : Oct 17, 2023
Report Number : 2785605-1

Page 1 of 2

Sample Number	23110991-1
Sampled Date	Oct 09, 2023 9:45 AM
Sample Description	Wastewater
Location	โรงงานน้ำตาลทรายดิบ ABPR2
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	45	≤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	-	-	31.2	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1520	≤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	8	≤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

Remark :

Technical Management

Narumon Banchoangkit
Supervisor
โทรศัพท์ ๖-๓๒๓-๙-๙445

Approved by

Dej Changchon
Senior Manager
โทรศัพท์ ๖-๓๒๓-๙-9442

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S. Jirapornchai, Co. opt. (4-0894)



Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabyangpoom, Pluak Daeng,
Rayong Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :

- Page 2 of 2
- LOD : Limit of Detection
 - <C : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)
 - Analytical method : 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.



TESTING
No.0042

Lot ID: 23110991
Date Received : Oct 09, 2023
Date Reported : Oct 17, 2023
Report Number : 2785605-1

Page 2 of 2



Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabyangpoom, Pluak Daeng,
Rayong Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :

Page 1 of 1

Sample Number : 23110991-1
Sample Date : Oct 09, 2023 9:45 AM
Sample Description : Wastewater
Location : บ้านนิคมอุตสาหกรรม ABPR2
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	Result	LOQ (LOR)	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
• <C : Lower than LOQ (Limit of Quantitation) / LOQ (Limit of Reporting)

Technical Management

N. Banthit

Narumon Banthongkit
Supervisor

โทรศัพท์ 3-323-9-9445

Approved by

D. Changchon

Dej Changchon
Senior Manager

โทรศัพท์ 3-323-9-9442

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Analysis / Test Report

TESTING
No.0042

Lot ID: 23122472

Date Received : Nov 13, 2023
Date Reported : Nov 20, 2023
Report Number : 2812552-1

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Maibyangporm, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Page 1 of 2

Sample Number	23122472-1	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 *			-	-	7.9	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-CI (F)	Rayong
Temperature *		Degree C	-	-	31.6	≤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	2140	≤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	8	≤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 Sittayakun รหัสงาน 7-323-9-9476

Technical Management : N. Banphit
Narumon Banchoangkit
Supervisor
รหัสงาน 7-323-9-9445

Approved by : D. Chongchon
Dej Chongchon
Senior Manager
รหัสงาน 7-323-9-9442

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Analysis / Test Report

TESTING
No.0042

Lot ID: 23122472

Date Received : Nov 13, 2023
Date Reported : Nov 20, 2023
Report Number : 2812552-1

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Maibyangporm, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Page 2 of 2

Remark :
- LOQ : Limit of Detection
- <LOQ : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked * : Analyte(s) included in scope of Accreditation (ISO/IEC 17025)
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

Technical Management : N. Banphit
Narumon Banchoangkit
Supervisor
รหัสงาน 7-323-9-9445

Approved by : D. Chongchon
Dej Chongchon
Senior Manager
รหัสงาน 7-323-9-9442

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangpoom, Pluek Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location:

Lot ID: 23122472
Date Received : Nov 13, 2023
Date Reported : Nov 20, 2023
Report Number : 2812552-2

Page 1 of 1

Sample Number	23122472-1
Sample Date	Nov 13, 2023 9:45 AM
Sample Description	Wastewater
Location	สถานีบำบัดน้ำเสีย ABPR2
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	-	-	0.025	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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N. Bangkit

Approved by

Nannorn Banchongkit
Supervisor

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangpoom, Pluek Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location:

TESTING
No.0042
Lot ID: 23134725
Date Received : Dec 11, 2023
Date Reported : Dec 18, 2023
Report Number : 2840125-1

Page 1 of 2

Sample Number	23134725-1
Sample Date	Dec 11, 2023 9:40 AM
Sample Description	Wastewater
Location	สถานีบำบัดน้ำเสีย ABPR2
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	64	≤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 *	-	-	-	8.1	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	-	-	31.4	≤45	Standard Methods for the Examination of Water and Wastewater: APHA, AWWA & WEF, 23rd ed., 2017, part 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	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	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 รหัสพนักงาน 3-323-9-9476

N. Bangkit

Technical Management

Nannorn Banchongkit
Supervisor
รหัสพนักงาน 3-323-9-9445

Approved by

Dej Chingchon
Senior Manager
รหัสพนักงาน 3-323-9-9442

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Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabyangporm, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

TESTING
No.0042
Lot ID: 23134725
Date Received : Dec 11, 2023
Date Reported : Dec 18, 2023
Report Number : 2840125-1

Page 2 of 2

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



Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabyangporm, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Lot ID: 23134725
Date Received : Dec 11, 2023
Date Reported : Dec 18, 2023
Report Number : 2840125-2

Page 1 of 1

Sample Number 23134725-1
Sample Date Dec 11, 2023 9:40 AM
Sample Description Wastewater
Location uanNinJatanaJatans ABPR2
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	m ³ /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 : Poramet Sittayakuln

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

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Narumon Banchoangkit
Supervisor

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Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 2 Limited
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Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

TESTING
No.0042
Lot ID: 23134725
Date Received : Dec 11, 2023
Date Reported : Dec 18, 2023
Report Number : 2840125-1

Page 2 of 2

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



Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabyangporm, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Lot ID: 23134725
Date Received : Dec 11, 2023
Date Reported : Dec 18, 2023
Report Number : 2840125-2

Page 1 of 1

Sample Number 23134725-1
Sample Date Dec 11, 2023 9:40 AM
Sample Description Wastewater
Location uanNinJatanaJatans ABPR2
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	m ³ /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 : Poramet Sittayakuln

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

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Narumon Banchoangkit
Supervisor

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ระดับเสียงในบรรยากาศ



TESTING
No.0042

Lot ID: 23107694

Date Received : Sep 25, 2023
Date Reported : Sep 30, 2023
Report Number : 2790208-1C1

Page 1 of 1



Analysis / Test Report

Client: Anata B. Gimm Power (Rayong) 2 Limited

7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mahayangpoom, Pluak Deteng, Rayong
Thailand 21140

P/O : 2301120016

Project Name : ABPR 2

Project Location :

Sample Number	23107694-1
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณทางหลวงหมายเลข 331
Measurement Date	Sep 18 - Sep 19, 2023
Measurement by	Nattakorn Vongjirapong
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	53.4
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
L01 (dB(A))	64.6
Standard (dB(A))	70

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ใช้นิยามการวัดระดับความดังเสียงตามมาตรฐาน ISO1996-1 และ ISO1996-2
2. ใช้มาตรฐานการวัดระดับความดังเสียงตามมาตรฐาน Thai Standard T.S. 2548

Supt S.

Approved by

Tharitat.

Technical Management

Tharita Kulsiwong
Scientist (4)

Supt Salameh
Section Head

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Analysis / Test Report

TESTING
No.0042

Lot ID: 23107694

Date Received : Sep 25, 2023
Date Reported : Sep 30, 2023
Report Number : 2790209-1C1

Page 1 of 1



Client: Anata B. Gimm Power (Rayong) 2 Limited

7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mahayangpoom, Pluak Deteng, Rayong
Thailand 21140

P/O : 2301120016

Project Name : ABPR 2

Project Location :

Sample Number	23107694-2
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณทางหลวงหมายเลข 331
Measurement Date	Sep 19 - Sep 20, 2023
Measurement by	Nattakorn Vongjirapong
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
L01 (dB(A))	63.6
Standard (dB(A))	70

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ใช้นิยามการวัดระดับความดังเสียงตามมาตรฐาน ISO1996-1 และ ISO1996-2
2. ใช้มาตรฐานการวัดระดับความดังเสียงตามมาตรฐาน Thai Standard T.S. 2548

Tharitat.

Approved by

Supt S.

Approved by

Tharita Kulsiwong
Scientist (4)

Supt Salameh
Section Head

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TESTING
No.0042

Lot ID: 23107694
Date Received : Sep 25, 2023
Date Reported : Sep 30, 2023
Report Number : 2790210-1C1

Analysis / Test Report

Client: Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangpoom, Phrak Daeng, Rayong
Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Page 1 of 1

Sample Number	23107694-3
Parameter	Noise (Leq 24 hrs.)
Location	พื้นที่โรงงาน พลาซ่าพลาซ่า
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	56.1	74.0	54.0
08:00 PM - 09:00 PM	56.2	74.1	53.1
09:00 PM - 10:00 PM	55.8	73.9	53.4
10:00 PM - 11:00 PM	55.7	75.8	53.7
11:00 PM - 12:00 AM	55.7	75.7	52.9
12:00 AM - 01:00 AM	54.9	74.1	51.9
01:00 AM - 02:00 AM	56.9	74.2	52.1
02:00 AM - 03:00 AM	55.8	76.7	52.5
03:00 AM - 04:00 AM	60.7	76.1	55.7
04:00 AM - 05:00 AM	63.2	88.2	55.2
05:00 AM - 06:00 AM	56.0	75.4	53.6
06:00 AM - 07:00 AM	57.5	75.1	54.4
07:00 AM - 08:00 AM	58.8	86.7	53.9
08:00 AM - 09:00 AM	58.9	84.1	54.1
09:00 AM - 10:00 AM	58.0	85.0	54.1
10:00 AM - 11:00 AM	59.0		

Leq Average 24 hrs. (dB(A))	59.0
Lmax (dB(A))	91.1
L90 (dB(A))	53.9
Ldn (dB(A))	

Standard (dB(A)) 70
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ใช้มาตรฐานการประเมินเสียงชุมชน ฉบับที่ 15 (พ.ศ. 2540) สำหรับการประเมินเสียงในเวลากลางคืน
2. ใช้มาตรฐานการประเมินเสียงชุมชน ฉบับที่ 15 (พ.ศ. 2540) สำหรับการประเมินเสียงในเวลากลางวันและกลางคืน
โดย พ.ศ. 2548

Tharitat.

Approved by

Tharita Kulsumwong
Scientist (4)
Supot Salameh
Section Head

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TESTING
No.0042

Lot ID: 23107694
Date Received : Sep 25, 2023
Date Reported : Sep 30, 2023
Report Number : 2790211-1C1

Analysis / Test Report

Client: Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangpoom, Phrak Daeng, Rayong
Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Page 1 of 1

Sample Number	23107694-4
Parameter	Noise (Leq 24 hrs.)
Location	พื้นที่โรงงาน พลาซ่าพลาซ่า
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	74.5	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))	

Standard (dB(A)) 70
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ใช้มาตรฐานการประเมินเสียงชุมชน ฉบับที่ 15 (พ.ศ. 2540) สำหรับการประเมินเสียงในเวลากลางคืน
2. ใช้มาตรฐานการประเมินเสียงชุมชน ฉบับที่ 15 (พ.ศ. 2540) สำหรับการประเมินเสียงในเวลากลางวันและกลางคืน
โดย พ.ศ. 2548

Tharitat.

Approved by

Tharita Kulsumwong
Scientist (4)
Supot Salameh
Section Head

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Analysis / Test Report

TESTING
No.0042

Lot ID: 23107694

Date Received : Sep 25, 2023
Date Reported : Sep 30, 2023
Report Number : 2790212-1C1

Client : Ananta B. Gimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabryngom, Puak Daeng, Rayong
Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :

Page 1 of 1

Sample Number	23107694-5
Parameter	Noise (Leq 24 hrs.)
Location	พื้นที่ก่อสร้าง โรงงานไฟฟ้า
Measurement Date	Sep 22 - Sep 23, 2023
Measurement by	Nattakam Yongyoo
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	82.4	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
L01 (dB(A))	71.2
Standard (dB(A))	70

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ใช้ค่ามาตรฐานการวัดระดับความดังเสียงตามข้อกำหนดของกรมควบคุมมลพิษ (พ.ศ. 2540) สำหรับพื้นที่อุตสาหกรรม
2. ใช้ค่ามาตรฐานการวัดระดับความดังเสียงตามข้อกำหนดของกรมควบคุมมลพิษ (พ.ศ. 2540) สำหรับพื้นที่ชุมชน

Supt S.

Approved by

Thanitak.

Technical Management

Thantia Kulsirwong
Scientist (4)

Support Salmeh
Section Head

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Analysis / Test Report

TESTING
No.0042

Lot ID: 23107696

Date Received : Sep 26, 2023
Date Reported : Sep 30, 2023
Report Number : 2791165-1C1

Client : Ananta B. Gimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabryngom, Puak Daeng, Rayong
Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :

Page 1 of 1

Sample Number	23107696-1
Parameter	Noise (Leq 24 hrs.)
Location	พื้นที่ก่อสร้าง โรงงานไฟฟ้า
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
L01 (dB(A))	65.9
Standard (dB(A))	115

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ใช้ค่ามาตรฐานการวัดระดับความดังเสียงตามข้อกำหนดของกรมควบคุมมลพิษ (พ.ศ. 2540) สำหรับพื้นที่อุตสาหกรรม
2. ใช้ค่ามาตรฐานการวัดระดับความดังเสียงตามข้อกำหนดของกรมควบคุมมลพิษ (พ.ศ. 2540) สำหรับพื้นที่ชุมชน

Thanitak.

Approved by

Supt S.

Technical Management

Thantia Kulsirwong
Scientist (4)

Support Salmeh
Section Head

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TESTING
No.0042

Lot ID: 23107696
Date Received : Sep 26, 2023
Date Reported : Sep 30, 2023
Report Number : 2791166-1C1

Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Muayangom, Phuk Dueng, Rayong
Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Page 1 of 1

Sample Number	23107696-2		
Parameter	Noise (Leq 24 hrs.)		
Location	บริเวณด้านหน้าโรงงาน		
Measurement Date	Sep 19 - Sep 20, 2023		
Measurement by	Nontchai 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	63.5	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

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ปริมาณการปล่อยเสียงจากโรงงานอุตสาหกรรม 2. ปริมาณการปล่อยเสียงจากโรงงานอุตสาหกรรม

Technical Management

Tharitat.

Thanita Kulswong
Scientist (4)

Approved by

Supt S.

Supot Salameh
Section Head

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Analysis / Test Report

TESTING
No.0042

Lot ID: 23107696
Date Received : Sep 26, 2023
Date Reported : Sep 30, 2023
Report Number : 2791167-1C1

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Muayangom, Phuk Daeng, Rayong
Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Page 1 of 1

Sample Number	23107696-3		
Parameter	Noise (Leq 24 hrs.)		
Location	บริเวณด้านหน้าโรงงาน		
Measurement Date	Sep 20 - Sep 21, 2023		
Measurement by	Nontchai 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	81.2	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

Reference Method : ISO1996-1 and 1996-2
Standard : 1. ปริมาณการปล่อยเสียงจากโรงงานอุตสาหกรรม 2. ปริมาณการปล่อยเสียงจากโรงงานอุตสาหกรรม

Technical Management

Tharitat.

Thanita Kulswong
Scientist (4)

Approved by

Supt S.

Supot Salameh
Section Head

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TESTING
No.0042

Lot ID: 23107696

Date Received : Sep 26, 2023
Date Reported : Sep 30, 2023
Report Number : 2791168-1C1

Page 1 of 1



Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabyangpoom, Pluak Daeng, Rayong
Thailand 21140

P/O : 2301120016
Project Name : ABPR 2
Project Location :

Sample Number	23107696-4
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณด้านหน้าโรงงาน
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	46.0	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	44.3	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	73.6	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	69.6	88.3	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))	

Standard (dB(A)) 70
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ใช้มาตรฐานการประเมินค่าเสียงรบกวน ตาม ม.ร.ว. 2540 (พ.ร.บ. 2540) เพื่อการควบคุมเสียงรบกวนในชุมชน
2. ใช้มาตรฐานการประเมินค่าเสียงรบกวน ตาม ม.ร.ว. 2540 (พ.ร.บ. 2540) เพื่อการควบคุมเสียงรบกวนในชุมชน

Supt S.

Approved by

Tharitat.

Technical Management

Thantita Kulsurwong
Scientist (4)

Support Salmeh
Section Head

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9773-41/ENAL



TESTING
No.0042

Lot ID: 23107696

Date Received : Sep 26, 2023
Date Reported : Sep 30, 2023
Report Number : 2791168-1C1

Page 1 of 1



Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Mabyangpoom, Pluak Daeng, Rayong
Thailand 21140

P/O : 2301120016
Project Name : ABPR 2
Project Location :

Sample Number	23107696-5
Parameter	Noise (Leq 24 hrs.)
Location	บริเวณด้านหน้าโรงงาน
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	67.4	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))	

Standard (dB(A)) 70
Reference Method : ISO1996-1 and 1996-2
Standard : 1. ใช้มาตรฐานการประเมินค่าเสียงรบกวน ตาม ม.ร.ว. 2540 (พ.ร.บ. 2540) เพื่อการควบคุมเสียงรบกวนในชุมชน
2. ใช้มาตรฐานการประเมินค่าเสียงรบกวน ตาม ม.ร.ว. 2540 (พ.ร.บ. 2540) เพื่อการควบคุมเสียงรบกวนในชุมชน

Tharitat.

Technical Management

Approved by

Supt S.

Thantita Kulsurwong
Scientist (4)

Support Salmeh
Section Head

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ภาคผนวก ค-6

ระดับเสียงรบกวน



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangpore, Puak Daeng,
Rayong Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :
Sample No. 23107697-1
Parameter :
Location :
Measurement Date :
Measurement by :
Sound Level Meter

TESTING
No.0042

Lot ID: 23107697
Date Received: Sep 26, 2023
Date Reported: Oct 10, 2023
Report Number: 2791151-1C1

Page 1 of 3



เวลา	เสียงจาก แหล่งกำเนิด	เสียงจาก สิ่งแวดล้อม	เสียงรวม	ระดับเสียง (dB(A))			ค่าระดับ การรบกวน
				ค่าจริง	ค่าปรับ	ค่าเฉลี่ย	
03:00 PM - 04:00 PM	52.7	55.5	57.0	45.7	7.0	52.2	45.5
04:00 PM - 05:00 PM	52.8	55.5	57.0	45.8	7.0	52.2	45.5
05:00 PM - 06:00 PM	53.2	55.5	57.0	46.2	7.0	52.2	45.5
06:00 PM - 07:00 PM	61.4	56.5	61.4	59.9	1.5	57.2	57.2
07:00 PM - 08:00 PM	68.4	56.5	68.4	67.9	0.5	57.2	57.2
08:00 PM - 09:00 PM	66.4	56.5	66.4	65.9	0.5	57.2	57.2
09:00 PM - 10:00 PM	65.5	56.5	65.5	65.0	0.5	57.2	57.2
10:00 PM - 11:00 PM	62.2	56.5	62.2	61.7	0.5	57.2	57.2
11:00 PM - 12:00 PM	65.2	56.5	65.2	64.7	0.5	57.2	57.2
12:00 PM - 01:00 PM	62.2	56.5	62.2	61.7	0.5	57.2	57.2
01:00 PM - 02:00 PM	62.2	56.5	62.2	61.7	0.5	57.2	57.2
02:00 PM - 03:00 PM	64.9	56.5	64.9	64.4	0.5	57.2	57.2
03:00 PM - 04:00 PM	64.8	56.5	64.8	64.3	0.5	57.2	57.2
04:00 PM - 05:00 PM	59.3	56.5	59.3	58.8	0.5	57.2	57.2
05:00 PM - 06:00 PM	59.0	56.5	59.0	58.5	0.5	57.2	57.2
06:00 PM - 07:00 PM	61.1	56.5	61.1	60.6	0.5	57.2	57.2
07:00 PM - 08:00 PM	66.1	56.5	66.1	65.6	0.5	57.2	57.2
08:00 PM - 09:00 PM	61.4	56.5	61.4	60.9	0.5	57.2	57.2
09:00 PM - 10:00 PM	56.6	56.5	56.6	56.1	0.5	57.2	57.2
10:00 PM - 11:00 PM	56.6	56.5	56.6	56.1	0.5	57.2	57.2
11:00 PM - 12:00 PM	63.9	56.5	63.9	63.4	0.5	57.2	57.2
12:00 PM - 01:00 PM	65.3	56.5	65.3	64.8	0.5	57.2	57.2
01:00 PM - 02:00 PM	68.1	56.5	68.1	67.6	0.5	57.2	57.2
02:00 PM - 03:00 PM	68.1	56.5	68.1	67.6	0.5	57.2	57.2
03:00 PM - 04:00 PM	66.9	56.5	66.9	66.4	0.5	57.2	57.2
04:00 PM - 05:00 PM	67.7	56.5	67.7	67.2	0.5	57.2	57.2
05:00 PM - 06:00 PM	67.7	56.5	67.7	67.2	0.5	57.2	57.2
06:00 PM - 07:00 PM	65.0	56.5	65.0	64.5	0.5	57.2	57.2
07:00 PM - 08:00 PM	63.6	56.5	63.6	63.1	0.5	57.2	57.2
08:00 PM - 09:00 PM	59.9	56.5	59.9	59.4	0.5	57.2	57.2
09:00 PM - 10:00 PM	58.9	56.5	58.9	58.4	0.5	57.2	57.2
10:00 PM - 11:00 PM	55.5	56.5	55.5	55.0	0.5	57.2	57.2
11:00 PM - 12:00 PM	58.5	56.5	58.5	58.0	0.5	57.2	57.2
12:00 PM - 01:00 PM	55.1	56.5	55.1	54.6	0.5	57.2	57.2

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Wilawan Borirak
Manager

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangpore, Puak Daeng,
Rayong Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :
Sample No. 23107697-1
Parameter :
Location :
Measurement Date :
Measurement by :
Sound Level Meter

TESTING
No.0042

Lot ID: 23107697
Date Received: Sep 26, 2023
Date Reported: Oct 10, 2023
Report Number: 2791151-1C1

Page 2 of 3

เวลา	เสียงจาก แหล่งกำเนิด	เสียงจาก สิ่งแวดล้อม	เสียงรวม	ระดับเสียง (dB(A))			ค่าระดับ การรบกวน
				ค่าจริง	ค่าปรับ	ค่าเฉลี่ย	
12:45 AM - 01:00 AM	53.0	53.5	53.5	49.5	7.0	49.0	45.6
01:00 AM - 01:15 AM	52.8	53.5	52.8	49.3	7.0	48.8	45.6
01:15 AM - 01:30 AM	56.2	53.5	56.2	52.7	3.0	56.2	45.6
01:30 AM - 01:45 AM	57.0	53.5	57.0	53.5	3.5	58.0	45.6
01:45 AM - 02:00 AM	56.3	53.5	56.3	52.8	3.0	56.3	45.6
02:00 AM - 02:15 AM	56.1	53.5	56.1	52.6	3.0	56.1	45.6
02:15 AM - 02:30 AM	56.8	53.5	56.8	53.3	3.0	56.8	45.6
02:30 AM - 02:45 AM	54.5	53.5	54.5	51.0	7.0	50.5	45.6
02:45 AM - 03:00 AM	52.0	53.5	52.0	48.5	7.0	48.0	45.6
03:00 AM - 03:15 AM	48.6	53.5	48.6	45.1	7.0	44.6	45.6
03:15 AM - 03:30 AM	48.3	53.5	48.3	44.8	7.0	44.3	45.6
03:30 AM - 03:45 AM	55.0	53.5	55.0	51.5	4.5	53.5	45.6
03:45 AM - 04:00 AM	48.1	53.5	48.1	44.6	7.0	44.1	45.6
04:00 AM - 04:15 AM	47.2	53.5	47.2	43.7	7.0	43.2	45.6
04:15 AM - 04:30 AM	46.9	53.5	46.9	43.4	7.0	42.9	45.6
04:30 AM - 04:45 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
04:45 AM - 05:00 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
05:00 AM - 05:15 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
05:15 AM - 05:30 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
05:30 AM - 05:45 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
05:45 AM - 06:00 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
06:00 AM - 06:15 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
06:15 AM - 06:30 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
06:30 AM - 06:45 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
06:45 AM - 07:00 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
07:00 AM - 07:15 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
07:15 AM - 07:30 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
07:30 AM - 07:45 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
07:45 AM - 08:00 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
08:00 AM - 08:15 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
08:15 AM - 08:30 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
08:30 AM - 08:45 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
08:45 AM - 09:00 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
09:00 AM - 09:15 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
09:15 AM - 09:30 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
09:30 AM - 09:45 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
09:45 AM - 10:00 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
10:00 AM - 10:15 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
10:15 AM - 10:30 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
10:30 AM - 10:45 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
10:45 AM - 11:00 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
11:00 AM - 11:15 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
11:15 AM - 11:30 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
11:30 AM - 11:45 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
11:45 AM - 12:00 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
12:00 AM - 12:15 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
12:15 AM - 12:30 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
12:30 AM - 12:45 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6
12:45 AM - 01:00 AM	45.3	53.5	45.3	41.8	7.0	41.3	45.6

Approved by

Wilawan Borirak
Manager

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangpore, Phrak Daeng,
Rayong Thailand 21140
P/O : 2301120016 : ABPR 2
Project Name :
Project Location :
Sample No. : 23107697-1
Parameter : เสียงรบกวน
Location : บริเวณด้านหน้าโรงงาน
Measurement Date : Sep 18 - 19, 2023
Measurement by : Nontchai Uppathamp
Sound Level Meter : 00734220

Lot ID: 23107697
Date Received : Sep 26, 2023
Date Reported : Oct 10, 2023
Report Number : 2791151-IC1

TESTING
No.0042



Page 3 of 3

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

เวลา	เสียงจากแหล่งกำเนิด	ระดับเสียง (dB(A))			เสียงรบกวน	ค่าเฉลี่ย
		เสียงจากแหล่งกำเนิด	เสียงรบกวน	เสียงรบกวน		
04:05 AM - 04:10 AM	46.4	53.5	-7.1	7.0	45.6	-3.2
04:10 AM - 04:15 AM	45.5	53.5	-8.0	7.0	45.6	-4.1
04:15 AM - 04:20 AM	45.8	53.5	-7.7	7.0	45.6	-3.8
04:20 AM - 04:25 AM	45.9	53.5	-7.6	7.0	45.6	-3.7
04:25 AM - 04:30 AM	45.5	53.5	-8.0	7.0	45.6	-4.1
04:30 AM - 04:35 AM	45.9	53.5	-7.6	7.0	45.6	-3.7
04:35 AM - 04:40 AM	48.0	53.5	-5.5	7.0	44.0	-4.0
04:40 AM - 04:45 AM	52.2	53.5	-1.3	7.0	48.2	-1.6
04:45 AM - 04:50 AM	46.6	53.5	-6.9	7.0	42.6	-2.6
04:50 AM - 04:55 AM	46.7	53.5	-6.8	7.0	42.7	-3.0
04:55 AM - 05:00 AM	47.5	53.5	-6.0	7.0	42.7	-2.9
05:00 AM - 05:05 AM	50.7	53.5	-2.8	7.0	45.6	-2.1
05:05 AM - 05:10 AM	46.9	53.5	-6.6	7.0	42.9	-1.1
05:10 AM - 05:15 AM	47.0	53.5	-6.5	7.0	43.0	-2.6
05:15 AM - 05:20 AM	47.7	53.5	-5.8	7.0	43.7	-1.9
05:20 AM - 05:25 AM	46.8	53.5	-6.7	7.0	42.8	-2.8
05:25 AM - 05:30 AM	47.3	53.5	-6.2	7.0	43.3	-2.3
05:30 AM - 05:35 AM	47.5	53.5	-6.0	7.0	43.5	-2.1
05:35 AM - 05:40 AM	46.8	53.5	-6.7	7.0	42.8	-2.8
05:40 AM - 05:45 AM	48.2	53.5	-5.3	7.0	44.2	-1.4
05:45 AM - 05:50 AM	47.6	53.5	-5.9	7.0	43.6	-2.0
05:50 AM - 05:55 AM	50.0	53.5	-3.5	7.0	46.0	-0.4
05:55 AM - 06:00 AM	48.3	53.5	-5.2	7.0	44.3	-1.3
06:00 AM - 06:05 AM	52.9	56.5	-3.6	7.0	45.9	-6.3
06:05 AM - 06:10 AM	54.3	56.5	-2.2	7.0	47.3	-4.9
06:10 AM - 06:15 AM	53.0	56.5	-3.5	7.0	46.0	-6.2
06:15 AM - 06:20 AM	53.4	56.5	-3.1	7.0	46.4	-5.8
06:20 AM - 06:25 AM	51.8	56.5	-4.7	7.0	44.8	-7.4
06:25 AM - 06:30 AM	50.6	56.5	-5.9	7.0	43.6	-8.6
06:30 PM - 06:35 PM	50.1	56.5	-6.4	7.0	43.1	-9.1
06:35 PM - 06:40 PM	49.7	56.5	-6.8	7.0	42.7	-9.5
06:40 PM - 06:45 PM	53.2	56.5	-3.3	7.0	46.2	-6.0

Reference Method : ISO 1996-1

- หมายเหตุ :
1. โปรดดูผลการทดสอบที่หน้า 1 และ 2 สำหรับข้อมูลการวัดระดับเสียงรบกวนและค่าเฉลี่ย
2. โปรดดูผลการทดสอบที่หน้า 3 สำหรับข้อมูลการวัดระดับเสียงรบกวนและค่าเฉลี่ย
3. โปรดดูผลการทดสอบที่หน้า 4 สำหรับข้อมูลการวัดระดับเสียงรบกวนและค่าเฉลี่ย

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Approved by

Witawan Bortrak
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wibb.

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangpore, Phrak Daeng,
Rayong Thailand 21140
P/O : 2301120016 : ABPR 2
Project Name :
Project Location :
Sample No. : 23107697-2
Parameter : เสียงรบกวน
Location : บริเวณด้านหน้าโรงงาน
Measurement Date : Sep 19 - 20, 2023
Measurement by : Nontchai Uppathamp
Sound Level Meter : 00734220

Lot ID: 23107697
Date Received : Sep 26, 2023
Date Reported : Oct 10, 2023
Report Number : 2791152-IC1

TESTING
No.0042



Page 1 of 3

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

เวลา	เสียงจากแหล่งกำเนิด	ระดับเสียง (dB(A))			เสียงรบกวน	ค่าเฉลี่ย
		เสียงจากแหล่งกำเนิด	เสียงรบกวน	เสียงรบกวน		
03:00 PM - 03:05 PM	51.0	56.5	-5.5	7.0	44.0	-8.2
03:05 PM - 03:10 PM	54.0	56.5	-2.5	7.0	47.0	-5.2
03:10 PM - 03:15 PM	53.2	56.5	-3.3	7.0	46.2	-6.0
03:15 PM - 03:20 PM	55.4	56.5	-1.1	7.0	48.4	-3.8
03:20 PM - 03:25 PM	59.1	56.5	2.6	3.0	56.1	3.9
03:25 PM - 03:30 PM	61.5	56.5	5.0	1.5	60.0	7.8
03:30 PM - 03:35 PM	60.7	56.5	4.2	2.0	58.7	6.5
03:35 PM - 03:40 PM	58.0	53.5	4.5	1.5	59.5	13.9
03:40 PM - 03:45 PM	50.6	53.5	-2.9	7.0	46.6	1.0
03:45 PM - 03:50 PM	55.3	53.5	1.7	4.5	53.7	8.1
03:50 PM - 03:55 PM	48.4	53.5	-4.1	7.0	45.4	-0.2
03:55 PM - 04:00 PM	53.6	53.5	0.1	7.0	49.6	4.0
04:00 PM - 04:05 PM	59.1	53.5	5.6	1.5	60.6	15.0
04:05 PM - 04:10 PM	50.2	53.5	-3.3	7.0	45.6	0.6
04:10 PM - 04:15 PM	57.1	53.5	3.6	2.0	58.1	17.5
04:15 PM - 04:20 PM	59.6	53.5	6.1	1.5	61.1	15.5
04:20 PM - 04:25 PM	57.0	53.5	3.5	2.0	58.0	12.4
04:25 PM - 04:30 PM	62.6	53.5	9.1	0.5	65.1	19.5
04:30 PM - 04:35 PM	58.9	53.5	5.4	1.5	60.4	14.8
04:35 PM - 04:40 PM	57.0	53.5	3.5	2.0	58.0	12.4
04:40 PM - 04:45 PM	65.0	53.5	9.5	0.5	65.5	19.9
04:45 PM - 04:50 PM	61.0	53.5	7.5	0.5	63.5	17.9
04:50 PM - 04:55 PM	58.3	53.5	4.8	1.5	59.8	14.2
04:55 PM - 05:00 PM	53.8	53.5	0.3	7.0	49.8	4.2
05:00 PM - 05:05 PM	54.7	53.5	1.2	7.0	50.7	5.1
05:05 PM - 05:10 PM	55.4	53.5	1.9	4.5	53.9	8.3
05:10 PM - 05:15 PM	46.4	53.5	-7.1	7.0	42.4	-3.2
05:15 PM - 05:20 PM	55.9	53.5	2.4	4.5	54.4	4.6
05:20 PM - 05:25 PM	54.2	53.5	0.7	7.0	50.2	4.6
05:25 PM - 05:30 PM	56.1	53.5	2.6	3.0	56.1	10.5
05:30 PM - 05:35 PM	51.4	53.5	-2.1	7.0	47.4	1.8
05:35 PM - 05:40 PM	48.8	53.5	-4.7	7.0	44.8	-0.8
05:40 PM - 05:45 PM	48.1	53.5	-5.4	7.0	44.1	-1.5
05:45 PM - 05:50 PM	57.4	53.5	3.9	2.0	58.4	12.8
05:50 PM - 05:55 PM	59.0	53.5	5.5	1.5	60.5	14.9
05:55 PM - 06:00 PM	58.8	53.5	5.3	1.5	60.3	14.7
06:00 PM - 06:05 PM	45.2	53.5	-8.3	7.0	41.2	-4.4
06:05 PM - 06:10 PM	55.4	53.5	1.9	4.5	53.9	8.3
06:10 PM - 06:15 PM	47.4	53.5	-6.1	7.0	43.4	-2.2

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Approved by

Witawan Bortrak
Manager

wibb.

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Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabyangorn, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016 : ABPR 2
Project Name :
Project Location :

TESTING
No.0042

Lot ID: 23107697
Date Received : Sep 26, 2023
Date Reported : Oct 10, 2023
Report Number : 2791152-1C1

Page 2 of 3

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

เวลา	เสียงจากแหล่งกำเนิด	เสียงจากตัวรับ	ระดับเสียง (dB(A))		พื้นที่เสียงจากแหล่งกำเนิด	เสียงจากตัวรับ	ค่าระดับการรบกวน
			แหล่งกำเนิด	ตัวรับ			
12:45 AM - 12:50 AM	48.9	53.5	-1.6	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	48.9	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	46.1	53.5	-6.4	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	45.0	53.5	-8.5	7.0	41.0	45.6	-4.6
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 - 04:00 AM	43.2	53.5	-10.3	7.0	39.2	45.6	-6.4
04:00 AM - 04:05 AM	45.7	53.5	-7.8	7.0	41.7	45.6	-3.9
04:05 AM - 04:10 AM	44.2	53.5	-9.3	7.0	40.2	45.6	-5.4

Approved by

Wilwan Bortrak
Manager

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Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabyangorn, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016 : ABPR 2
Project Name :
Project Location :

TESTING
No.0042

Lot ID: 23107697
Date Received : Sep 26, 2023
Date Reported : Oct 10, 2023
Report Number : 2791152-1C1

Page 3 of 3

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

เวลา	เสียงจากแหล่งกำเนิด	เสียงจากตัวรับ	ระดับเสียง (dB(A))		พื้นที่เสียงจากแหล่งกำเนิด	เสียงจากตัวรับ	ค่าระดับการรบกวน
			แหล่งกำเนิด	ตัวรับ			
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	47.2	53.5	-6.3	7.0	43.2	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	50.6	53.5	-2.9	7.0	46.6	45.6	1.0
05:20 AM - 05:25 AM	49.2	53.5	-4.3	7.0	45.2	45.6	-0.4
05:25 AM - 05:30 AM	49.8	53.5	-3.7	7.0	45.8	45.6	0.2
05:30 AM - 05:35 AM	48.8	53.5	-4.7	7.0	44.8	45.6	-0.8
05:35 AM - 05:40 AM	48.3	53.5	-5.2	7.0	44.3	45.6	-1.3
05:40 AM - 05:45 AM	50.2	53.5	-3.3	7.0	46.2	45.6	0.6
05:45 AM - 05:50 AM	48.3	53.5	-5.2	7.0	44.3	45.6	-1.3
05:50 AM - 05:55 AM	48.5	53.5	-5.0	7.0	44.5	45.6	-1.1
05:55 AM - 06:00 AM	52.8	56.5	-3.7	7.0	45.8	57.2	-6.4
06:00 AM - 06:05 AM	53.3	56.5	-3.2	7.0	46.3	57.2	-6.4
06:05 AM - 06:10 AM	52.9	56.5	-3.6	7.0	45.9	57.2	-6.3
06:10 AM - 06:15 AM	52.9	56.5	-3.6	7.0	45.9	57.2	-6.3
06:15 AM - 06:20 AM	49.4	56.5	-7.1	7.0	42.4	57.2	-9.8
06:20 AM - 06:25 AM	48.9	56.5	-7.6	7.0	41.9	57.2	-9.3
06:25 AM - 06:30 AM	52.7	56.5	-3.8	7.0	45.7	57.2	-6.5
06:30 AM - 06:35 AM	50.7	56.5	-5.8	7.0	43.7	57.2	-8.5
06:35 AM - 06:40 AM	51.0	56.5	-5.5	7.0	44.0	57.2	-8.2

Reference Method : ISO 9696-1

หมายเหตุ

1. ปริมณฑลของผลการทดสอบ ดังนี้ การคำนวณระดับเสียงจากแหล่งกำเนิดและเสียงที่คาดการณ์จากข้อมูลการปฏิบัติงานโรงงาน พ.ศ. 2548
2. ปริมณฑลของผลการทดสอบ ดังนี้ วิธีการวัดระดับเสียงจากแหล่งกำเนิดและเสียงที่คาดการณ์จากข้อมูลการปฏิบัติงานโรงงาน พ.ศ. 2553
3. ปริมณฑลของผลการทดสอบ ดังนี้ การคำนวณค่าความเข้มเสียงจากแหล่งกำเนิดและเสียงที่คาดการณ์จากข้อมูลการปฏิบัติงานโรงงาน พ.ศ. 2561

ระดับเสียงจากแหล่งกำเนิด พิกัดตารางที่ 1 หน้า 19-20 คู่มือฯ 2556

ระดับเสียงจากแหล่งกำเนิดและเสียงที่คาดการณ์ พิกัดตารางที่ 5-6 คู่มือฯ 2556

Approved by

Wilwan Bortrak
Manager

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangpore, Pluak Daeng,
Rayong Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :
Sample No. : 23107697-3
Parameter : เสียงรบกวน
Location : บริเวณสถานีวิทยุคมนาคม
Measurement Date : Sep 20 - 21, 2023
Measurement by : Nontachai Uppathamp
Sound Level Meter : 00734220

TESTING
No.0042
Lot ID: 23107697
Date Received : Sep 26, 2023
Date Reported : Oct 10, 2023
Report Number : 2791153-1C1

Page 1 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงรบกวนในกิจกรรม	ระดับเสียง (dB(A))			เสียงรบกวน	ค่ารวมการรบกวน
			ค่าเฉลี่ย	ค่าสูงสุด	ค่าต่ำสุด		
03:00 PM - 04:00 PM	55.8	56.5	-0.7	7.0	-	52.2	-3.4
04:00 PM - 05:00 PM	53.1	56.5	-3.4	7.0	-	52.2	-6.1
05:00 PM - 06:00 PM	51.8	56.5	-4.7	7.0	-	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	-	45.6	2.1
10:05 PM - 10:10 PM	52.7	53.5	-0.8	7.0	-	48.7	45.6
10:10 PM - 10:15 PM	53.2	53.5	-0.3	7.0	-	49.2	45.6
10:15 PM - 10:20 PM	50.6	53.5	-2.9	7.0	-	46.6	3.6
10:20 PM - 10:25 PM	47.7	53.5	-5.8	7.0	-	43.7	45.6
10:25 PM - 10:30 PM	52.4	53.5	-1.1	7.0	-	48.1	-1.9
10:30 PM - 10:35 PM	49.3	53.5	-4.2	7.0	-	45.3	2.8
10:35 PM - 10:40 PM	48.2	53.5	-5.3	7.0	-	44.8	-0.3
10:40 PM - 10:45 PM	48.8	53.5	-4.7	7.0	-	45.6	-0.8
10:45 PM - 10:50 PM	48.3	53.5	-5.2	7.0	-	44.3	-1.3
10:50 PM - 10:55 PM	51.6	53.5	-1.9	7.0	-	47.6	45.6
10:55 PM - 11:00 PM	53.2	53.5	-0.3	7.0	-	49.2	3.6
11:00 PM - 11:05 PM	53.1	53.5	-0.4	7.0	-	49.1	3.5
11:05 PM - 11:10 PM	54.6	53.5	1.1	7.0	-	50.6	5.0
11:10 PM - 11:15 PM	50.6	53.5	-2.9	7.0	-	46.6	1.0
11:15 PM - 11:20 PM	51.6	53.5	-1.9	7.0	-	47.6	2.0
11:20 PM - 11:25 PM	48.1	53.5	-5.4	7.0	-	44.1	-1.5
11:25 PM - 11:30 PM	48.9	53.5	-4.6	7.0	-	44.8	-0.8
11:30 PM - 11:35 PM	48.9	53.5	-4.6	7.0	-	44.9	-0.7
11:35 PM - 11:40 PM	49.5	53.5	-4.0	7.0	-	45.5	-0.1
11:40 PM - 11:45 PM	47.2	53.5	-6.3	7.0	-	43.2	-2.4
11:45 PM - 11:50 PM	45.7	53.5	-8.8	7.0	-	41.7	-3.9
11:50 PM - 11:55 PM	48.7	53.5	-4.8	7.0	-	44.7	-0.9
11:55 PM - 12:00 AM	45.6	53.5	-7.9	7.0	-	41.6	-4.0
12:00 AM - 12:05 AM	46.2	53.5	-7.3	7.0	-	42.2	-3.4
12:05 AM - 12:10 AM	45.7	53.5	-7.8	7.0	-	41.7	-3.9
12:10 AM - 12:15 AM	46.1	53.5	-7.4	7.0	-	42.1	-3.5
12:15 AM - 12:20 AM	46.8	53.5	-6.7	7.0	-	42.8	-2.8
12:20 AM - 12:25 AM	47.3	53.5	-6.2	7.0	-	43.3	-2.3
12:25 AM - 12:30 AM	46.9	53.5	-6.6	7.0	-	42.9	-2.7
12:30 AM - 12:35 AM	46.4	53.5	-7.1	7.0	-	42.4	-3.2
12:35 AM - 12:40 AM	46.4	53.5	-7.1	7.0	-	42.4	-3.2
12:40 AM - 12:45 AM	46.4	53.5	-7.1	7.0	-	42.4	-3.2

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Approved by

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Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangpore, Pluak Daeng,
Rayong Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :
Sample No. : 23107697-3
Parameter : เสียงรบกวน
Location : บริเวณสถานีวิทยุคมนาคม
Measurement Date : Sep 20 - 21, 2023
Measurement by : Nontachai Uppathamp
Sound Level Meter : 00734220

TESTING
No.0042
Lot ID: 23107697
Date Received : Sep 26, 2023
Date Reported : Oct 10, 2023
Report Number : 2791153-1C1

Page 2 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงรบกวนในกิจกรรม	ระดับเสียง (dB(A))			เสียงรบกวน	ค่ารวมการรบกวน
			ค่าเฉลี่ย	ค่าสูงสุด	ค่าต่ำสุด		
12:45 AM - 12:50 AM	47.4	53.5	-6.1	7.0	-	43.4	-2.2
12:50 AM - 12:55 AM	48.9	53.5	-4.6	7.0	-	44.9	-0.7
12:55 AM - 01:00 AM	50.2	53.5	-3.3	7.0	-	46.2	0.6
01:00 AM - 01:05 AM	47.3	53.5	-6.2	7.0	-	43.3	-2.3
01:05 AM - 01:10 AM	46.4	53.5	-7.1	7.0	-	42.4	-3.2
01:10 AM - 01:15 AM	46.6	53.5	-6.9	7.0	-	42.6	-3.0
01:15 AM - 01:20 AM	45.9	53.5	-7.6	7.0	-	41.9	-3.7
01:20 AM - 01:25 AM	53.0	53.5	-0.5	7.0	-	49.0	3.4
01:25 AM - 01:30 AM	46.3	53.5	-7.2	7.0	-	42.3	-3.3
01:30 AM - 01:35 AM	45.9	53.5	-7.6	7.0	-	41.9	-3.7
01:35 AM - 01:40 AM	47.2	53.5	-6.3	7.0	-	43.2	-2.4
01:40 AM - 01:45 AM	50.0	53.5	-3.5	7.0	-	46.0	0.4
01:45 AM - 01:50 AM	49.5	53.5	-4.0	7.0	-	45.5	-0.1
01:50 AM - 01:55 AM	48.5	53.5	-5.0	7.0	-	44.5	-1.1
01:55 AM - 02:00 AM	47.3	53.5	-6.2	7.0	-	43.3	-2.3
02:00 AM - 02:05 AM	50.1	53.5	-3.4	7.0	-	46.1	0.5
02:05 AM - 02:10 AM	52.8	53.5	-0.7	7.0	-	48.8	3.2
02:10 AM - 02:15 AM	46.8	53.5	-6.7	7.0	-	42.8	-2.8
02:15 AM - 02:20 AM	47.7	53.5	-5.8	7.0	-	43.7	-1.9
02:20 AM - 02:25 AM	47.8	53.5	-5.7	7.0	-	43.8	-1.8
02:25 AM - 02:30 AM	48.6	53.5	-4.9	7.0	-	44.6	-1.0
02:30 AM - 02:35 AM	46.3	53.5	-7.2	7.0	-	42.3	-3.3
02:35 AM - 02:40 AM	45.9	53.5	-7.6	7.0	-	41.9	-3.7
02:40 AM - 02:45 AM	47.3	53.5	-6.2	7.0	-	43.3	-2.3
02:45 AM - 02:50 AM	47.9	53.5	-5.6	7.0	-	43.9	-1.7
02:50 AM - 02:55 AM	47.0	53.5	-6.5	7.0	-	43.0	-2.6
02:55 AM - 03:00 AM	46.4	53.5	-7.1	7.0	-	42.4	-3.2
03:00 AM - 03:05 AM	45.2	53.5	-8.3	7.0	-	41.2	-4.4
03:05 AM - 03:10 AM	46.6	53.5	-6.9	7.0	-	42.6	-3.0
03:10 AM - 03:15 AM	42.9	53.5	-10.6	7.0	-	38.9	-6.7
03:15 AM - 03:20 AM	44.8	53.5	-9.7	7.0	-	40.8	-4.8
03:20 AM - 03:25 AM	47.6	53.5	-5.9	7.0	-	43.6	-2.0
03:25 AM - 03:30 AM	44.5	53.5	-9.0	7.0	-	40.5	-5.1
03:30 AM - 03:35 AM	47.3	53.5	-6.2	7.0	-	43.3	-2.3
03:35 AM - 03:40 AM	45.0	53.5	-8.5	7.0	-	41.0	-4.6
03:40 AM - 03:45 AM	45.7	53.5	-7.8	7.0	-	41.7	-3.9
03:45 AM - 03:50 AM	44.9	53.5	-8.6	7.0	-	40.9	-4.7
03:50 AM - 03:55 AM	45.2	53.5	-8.3	7.0	-	41.2	-4.4
03:55 AM - 04:00 AM	49.2	53.5	-4.3	7.0	-	45.2	-0.4

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Approved by

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Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabhyangpoom, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016 : ABPR 2
Project Name :
Project Location :
Sample No. : 23107697-3
Parameter : เสียงรบกวน
Location : บริเวณสถานีดับเพลิง
Measurement Date : Sep 20 - 21, 2023
Measurement by : Nontachai Upathamp
Sound Level Meter : 00734220

TESTING
No.0042

Lot ID: 23107697
Date Received: Sep 26, 2023
Date Reported: Oct 10, 2023
Report Number: 2791153-1C1

Page 3 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงรบกวน	ระดับเสียง (dB(A))			ค่าเฉลี่ย	ค่ารวม
			เสียงจากแหล่งกำเนิด	เสียงรบกวน	เสียงรบกวน		
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	43.2	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	49.3	52.2	-6.3
07:00 AM - 08:00 AM	54.3	56.5	-2.2	7.0	49.7	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	-5.0

Reference Method : ISO 1996-1

- หมายเหตุ
1. ผู้ตรวจวัดเสียงรบกวนได้ปฏิบัติตามมาตรฐานการวัดเสียงรบกวนตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ พ.ศ. 2558
 2. ผู้ตรวจวัดเสียงรบกวนได้ปฏิบัติตามมาตรฐานการวัดเสียงรบกวนตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ พ.ศ. 2553
 3. ผู้ตรวจวัดเสียงรบกวนได้ปฏิบัติตามมาตรฐานการวัดเสียงรบกวนตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ พ.ศ. 2561
- ระดับเสียงรบกวนเฉลี่ยตามข้อกำหนดของกรมส่งเสริมการค้าระหว่างประเทศ พ.ศ. 2558

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Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabhyangpoom, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016 : ABPR 2
Project Name :
Project Location :
Sample No. : 23107697-4
Parameter : เสียงรบกวน
Location : บริเวณสถานีดับเพลิง
Measurement Date : Sep 21 - 22, 2023
Measurement by : Nontachai Upathamp
Sound Level Meter : 00734220

TESTING
No.0042

Lot ID: 23107697
Date Received: Sep 26, 2023
Date Reported: Oct 10, 2023
Report Number: 2791153-1C1

Page 1 of 3

เวลา	เสียงจากแหล่งกำเนิด	เสียงรบกวน	ระดับเสียง (dB(A))			ค่าเฉลี่ย	ค่ารวม
			เสียงจากแหล่งกำเนิด	เสียงรบกวน	เสียงรบกวน		
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	48.3	53.5	-7.2	7.0	41.3	45.6	-3.5
10:05 PM - 10:10 PM	53.1	53.5	-0.4	7.0	52.7	45.6	25.1
10:10 PM - 10:15 PM	67.7	53.5	14.2	0.0	70.7	45.6	11.3
10:15 PM - 10:20 PM	56.9	53.5	3.4	3.0	56.9	45.6	-3.2
10:20 PM - 10:25 PM	48.4	53.5	-5.1	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	45.6	53.5	-7.9	7.0	41.6	45.6	-4.0
10:55 PM - 11:00 PM	45.4	53.5	-8.1	7.0	41.5	45.6	-4.1
11:00 PM - 11:05 PM	46.6	53.5	-6.9	7.0	42.6	45.6	-3.0
11:05 PM - 11:10 PM	47.0	53.5	-6.5	7.0	43.0	45.6	-2.6
11:10 PM - 11:15 PM	47.1	53.5	-6.4	7.0	43.1	45.6	-2.4
11:15 PM - 11:20 PM	47.2	53.5	-6.3	7.0	43.2	45.6	-2.6
11:20 PM - 11:25 PM	47.2	53.5	-6.3	7.0	43.2	45.6	-2.6
11:25 PM - 11:30 PM	47.0	53.5	-6.5	7.0	43.0	45.6	-2.4
11:30 PM - 11:35 PM	46.7	53.5	-6.8	7.0	42.7	45.6	-2.9
11:35 PM - 11:40 PM	46.3	53.5	-7.2	7.0	42.3	45.6	-3.3
11:40 PM - 11:45 PM	46.0	53.5	-7.5	7.0	42.0	45.6	-3.6
11:45 PM - 11:50 PM	46.1	53.5	-7.4	7.0	42.1	45.6	-3.5
11:50 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	51.3	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	48.5	53.5	-5.0	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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Analysis / Test Report

Client : Anala B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anala City Industrial Estate, Highway 331, Mabyangpore, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016 : ABPR 2
Project Name :
Project Location :
Sample No. : 23107697-4
Parameter : เสียงรบกวน
Location : บริเวณจุดติดตั้งถนนพหลโยธิน
Measurement Date : Sep 21 - 22, 2023
Measurement by : Nontachai Uppathamp
Sound Level Meter : 00734220

Page 2 of 3



TESTING
No.0042

Lot ID: 23107697
Date Received: Sep 26, 2023
Date Reported: Oct 10, 2023
Report Number: 2791154-1C1

เวลา	เสียงจากแหล่งกำเนิด	เสียงรบกวน	ระดับเสียง (dB(A))			ค่ารวม
			ค่าจริง	ค่าปรับ	ค่าเฉลี่ย	
12:45 AM - 12:50 AM	47.1	53.5	-6.4	7.0	45.6	-2.5
12:50 AM - 12:55 AM	47.0	53.5	-6.5	7.0	45.6	-2.6
12:55 AM - 01:00 AM	46.5	53.5	-7.0	7.0	45.6	-3.1
01:00 AM - 01:05 AM	46.0	53.5	-7.5	7.0	45.6	-3.6
01:05 AM - 01:10 AM	44.6	53.5	-8.9	7.0	45.6	-5.0
01:10 AM - 01:15 AM	45.4	53.5	-8.1	7.0	45.6	-4.2
01:15 AM - 01:20 AM	45.2	53.5	-8.3	7.0	45.6	-4.4
01:20 AM - 01:25 AM	45.3	53.5	-8.2	7.0	45.6	-4.3
01:25 AM - 01:30 AM	44.1	53.5	-9.4	7.0	45.6	-5.5
01:30 AM - 01:35 AM	44.5	53.5	-9.0	7.0	45.6	-5.1
01:35 AM - 01:40 AM	46.8	53.5	-6.7	7.0	45.6	-2.8
01:40 AM - 01:45 AM	45.7	53.5	-7.8	7.0	45.6	-3.9
01:45 AM - 01:50 AM	45.9	53.5	-7.6	7.0	45.6	-3.7
01:50 AM - 01:55 AM	44.9	53.5	-8.6	7.0	45.6	-4.7
01:55 AM - 02:00 AM	44.3	53.5	-9.2	7.0	45.6	-5.3
02:00 AM - 02:05 AM	45.0	53.5	-8.5	7.0	45.6	-4.5
02:05 AM - 02:10 AM	44.3	53.5	-9.2	7.0	45.6	-5.3
02:10 AM - 02:15 AM	44.3	53.5	-9.2	7.0	45.6	-5.3
02:15 AM - 02:20 AM	45.1	53.5	-8.4	7.0	45.6	-4.5
02:20 AM - 02:25 AM	45.1	53.5	-8.4	7.0	45.6	-4.5
02:25 AM - 02:30 AM	45.8	53.5	-7.7	7.0	45.6	-3.8
02:30 AM - 02:35 AM	45.4	53.5	-8.1	7.0	45.6	-4.2
02:35 AM - 02:40 AM	46.6	53.5	-6.9	7.0	45.6	-3.0
02:40 AM - 02:45 AM	46.1	53.5	-7.4	7.0	45.6	-3.5
02:45 AM - 02:50 AM	45.3	53.5	-8.2	7.0	45.6	-4.3
02:50 AM - 02:55 AM	45.9	53.5	-7.6	7.0	45.6	-3.7
02:55 AM - 03:00 AM	44.8	53.5	-8.7	7.0	45.6	-4.8
03:00 AM - 03:05 AM	44.5	53.5	-9.0	7.0	45.6	-5.1
03:05 AM - 03:10 AM	44.2	53.5	-9.3	7.0	45.6	-5.4
03:10 AM - 03:15 AM	44.0	53.5	-9.5	7.0	45.6	-5.6
03:15 AM - 03:20 AM	43.2	53.5	-10.3	7.0	45.6	-6.4
03:20 AM - 03:25 AM	43.4	53.5	-10.1	7.0	45.6	-6.2
03:25 AM - 03:30 AM	44.4	53.5	-9.1	7.0	45.6	-5.2
03:30 AM - 03:35 AM	43.7	53.5	-9.8	7.0	45.6	-5.9
03:35 AM - 03:40 AM	44.0	53.5	-9.5	7.0	45.6	-5.6
03:40 AM - 03:45 AM	46.7	53.5	-6.8	7.0	45.6	-2.9
03:45 AM - 03:50 AM	43.5	53.5	-10.0	7.0	45.6	-6.1
03:50 AM - 03:55 AM	43.5	53.5	-10.0	7.0	45.6	-6.1
03:55 AM - 04:00 AM	43.5	53.5	-10.0	7.0	45.6	-6.1
04:00 AM - 04:05 AM	44.0	53.5	-9.5	7.0	45.6	-5.6

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Approved by

Wilawan Bontak
Manager

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Analysis / Test Report

Client : Anala B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anala City Industrial Estate, Highway 331, Mabyangpore, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016 : ABPR 2
Project Name :
Project Location :
Sample No. : 23107697-4
Parameter : เสียงรบกวน
Location : บริเวณจุดติดตั้งถนนพหลโยธิน
Measurement Date : Sep 21 - 22, 2023
Measurement by : Nontachai Uppathamp
Sound Level Meter : 00734220

Page 3 of 3



TESTING
No.0042

Lot ID: 23107697
Date Received: Sep 26, 2023
Date Reported: Oct 10, 2023
Report Number: 2791154-1C1

เวลา	เสียงจากแหล่งกำเนิด	เสียงรบกวน	ระดับเสียง (dB(A))			ค่ารวม
			ค่าจริง	ค่าปรับ	ค่าเฉลี่ย	
04:05 AM - 04:10 AM	43.5	53.5	-10.0	7.0	45.6	-6.1
04:10 AM - 04:15 AM	43.7	53.5	-9.8	7.0	45.6	-5.9
04:15 AM - 04:20 AM	43.4	53.5	-10.1	7.0	45.6	-6.2
04:20 AM - 04:25 AM	44.2	53.5	-9.3	7.0	45.6	-5.4
04:25 AM - 04:30 AM	44.2	53.5	-9.3	7.0	45.6	-5.4
04:30 AM - 04:35 AM	44.1	53.5	-9.4	7.0	45.6	-5.5
04:35 AM - 04:40 AM	45.0	53.5	-8.5	7.0	45.6	-4.6
04:40 AM - 04:45 AM	44.3	53.5	-9.2	7.0	45.6	-5.3
04:45 AM - 04:50 AM	44.5	53.5	-9.0	7.0	45.6	-5.1
04:50 AM - 04:55 AM	44.3	53.5	-9.2	7.0	45.6	-5.3
04:55 AM - 05:00 AM	44.7	53.5	-8.8	7.0	45.6	-4.9
05:00 AM - 05:05 AM	44.6	53.5	-8.9	7.0	45.6	-5.0
05:05 AM - 05:10 AM	49.2	53.5	-4.3	7.0	45.6	-0.4
05:10 AM - 05:15 AM	49.7	53.5	-3.8	7.0	45.6	0.1
05:15 AM - 05:20 AM	69.4	53.5	15.9	0.0	72.3	26.8
05:20 AM - 05:25 AM	72.3	53.5	18.8	0.0	75.9	29.7
05:25 AM - 05:30 AM	58.4	53.5	4.9	1.5	59.9	14.3
05:30 AM - 05:35 AM	48.4	53.5	-5.1	7.0	45.6	-1.2
05:35 AM - 05:40 AM	48.4	53.5	-5.1	7.0	45.6	-1.2
05:40 AM - 05:45 AM	51.8	53.5	-1.7	7.0	47.8	2.2
05:45 AM - 05:50 AM	51.8	53.5	-1.7	7.0	47.8	2.2
05:50 AM - 05:55 AM	51.8	53.5	-1.7	7.0	47.8	2.2
05:55 AM - 06:00 AM	50.7	53.5	-2.8	7.0	46.7	1.1
06:00 AM - 06:05 AM	55.9	56.5	0.4	7.0	49.9	4.5
06:05 AM - 06:10 AM	63.6	56.5	7.1	1.0	62.6	12.2
06:10 AM - 06:15 AM	50.5	56.5	-6.0	7.0	43.5	-8.7
06:15 AM - 06:20 AM	50.5	56.5	-6.0	7.0	43.5	-8.7
06:20 AM - 06:25 AM	51.5	56.5	-5.0	7.0	44.5	-7.7
06:25 AM - 06:30 AM	63.5	56.5	7.0	1.0	62.5	12.2
06:30 AM - 06:35 AM	51.3	56.5	-5.2	7.0	44.3	-8.9
06:35 AM - 06:40 AM	49.3	56.5	-7.2	7.0	42.3	-10.0
06:40 AM - 06:45 AM	51.3	56.5	-5.2	7.0	44.3	-8.9

Reference Method : ISO 1996-1

- หมายเหตุ : ผลการทดสอบเสียงรบกวน ณ บริเวณจุดติดตั้งถนนพหลโยธิน (ตามจุดติดตั้งเครื่องจักร) ณ วันที่ 25/08/2561
1. ผลการทดสอบเสียงรบกวน ณ บริเวณจุดติดตั้งถนนพหลโยธิน (ตามจุดติดตั้งเครื่องจักร) ณ วันที่ 25/08/2561
2. ผลการทดสอบเสียงรบกวน ณ บริเวณจุดติดตั้งถนนพหลโยธิน (ตามจุดติดตั้งเครื่องจักร) ณ วันที่ 25/08/2561
3. ผลการทดสอบเสียงรบกวน ณ บริเวณจุดติดตั้งถนนพหลโยธิน (ตามจุดติดตั้งเครื่องจักร) ณ วันที่ 25/08/2561

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Approved by

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Manager

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Analysis / Test Report

TESTING
No.0042

Lot ID: 23107697
Date Received : Sep 26, 2023
Date Reported : Oct 10, 2023
Report Number : 2791155-1C1

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabyangpoom, Pluak Daeng,
Rayong Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :
Sample No. : 23107697-5
Parameter : เสียงรบกวน
Location : บริเวณด้านหน้าอาคาร
Measurement Date : Sep 22 - 23, 2023
Measurement by : Nonlathai Uppalump
Sound Level Meter : 00734220

เวลา	เสียงจาก แหล่งกำเนิด	เสียงรบกวน ในบริเวณรอบๆ	ระดับเสียง (dB(A))			ค่าเฉลี่ย การรบกวน
			ค่าเฉลี่ย ระดับเสียง	ค่าเฉลี่ย เสียงรบกวน	ค่าเฉลี่ย เสียงรบกวน	
03:00 PM - 04:00 PM	58.9	56.5	57.7	57.7	57.7	57.7
04:00 PM - 05:00 PM	58.9	56.5	57.7	57.7	57.7	57.7
05:00 PM - 06:00 PM	63.1	56.5	59.8	59.8	59.8	59.8
06:00 PM - 07:00 PM	50.1	56.5	53.3	53.3	53.3	53.3
07:00 PM - 08:00 PM	49.8	56.5	53.3	53.3	53.3	53.3
08:00 PM - 09:00 PM	49.1	56.5	53.3	53.3	53.3	53.3
09:00 PM - 10:00 PM	47.8	56.5	52.2	52.2	52.2	52.2
10:00 PM - 10:05 PM	46.6	53.5	50.1	50.1	50.1	50.1
10:05 PM - 10:10 PM	47.2	53.5	50.1	50.1	50.1	50.1
10:10 PM - 10:15 PM	48.2	53.5	51.1	51.1	51.1	51.1
10:15 PM - 10:20 PM	51.2	53.5	52.2	52.2	52.2	52.2
10:20 PM - 10:25 PM	46.7	53.5	50.1	50.1	50.1	50.1
10:25 PM - 10:30 PM	46.6	53.5	50.1	50.1	50.1	50.1
10:30 PM - 10:35 PM	48.0	53.5	50.1	50.1	50.1	50.1
10:35 PM - 10:40 PM	49.4	53.5	51.1	51.1	51.1	51.1
10:40 PM - 10:45 PM	55.9	53.5	54.7	54.7	54.7	54.7
10:45 PM - 10:50 PM	61.9	53.5	57.7	57.7	57.7	57.7
10:50 PM - 10:55 PM	56.7	53.5	55.2	55.2	55.2	55.2
10:55 PM - 11:00 PM	46.1	53.5	50.1	50.1	50.1	50.1
11:00 PM - 11:05 PM	46.3	53.5	50.1	50.1	50.1	50.1
11:05 PM - 11:10 PM	47.8	53.5	50.1	50.1	50.1	50.1
11:10 PM - 11:15 PM	47.8	53.5	50.1	50.1	50.1	50.1
11:15 PM - 11:20 PM	47.0	53.5	50.1	50.1	50.1	50.1
11:20 PM - 11:25 PM	45.8	53.5	49.6	49.6	49.6	49.6
11:25 PM - 11:30 PM	45.0	53.5	49.1	49.1	49.1	49.1
11:30 PM - 11:35 PM	45.5	53.5	49.6	49.6	49.6	49.6
11:35 PM - 11:40 PM	45.2	53.5	49.6	49.6	49.6	49.6
11:40 PM - 11:45 PM	45.0	53.5	49.6	49.6	49.6	49.6
11:45 PM - 11:50 PM	45.2	53.5	49.6	49.6	49.6	49.6
11:50 PM - 11:55 PM	45.2	53.5	49.6	49.6	49.6	49.6
11:55 PM - 12:00 AM	45.9	53.5	49.6	49.6	49.6	49.6
12:00 AM - 12:05 AM	46.2	53.5	49.6	49.6	49.6	49.6
12:05 AM - 12:10 AM	45.9	53.5	49.6	49.6	49.6	49.6
12:10 AM - 12:15 AM	47.5	53.5	49.6	49.6	49.6	49.6
12:15 AM - 12:20 AM	46.3	53.5	49.6	49.6	49.6	49.6
12:20 AM - 12:25 AM	45.1	53.5	49.6	49.6	49.6	49.6
12:25 AM - 12:30 AM	44.5	53.5	49.6	49.6	49.6	49.6
12:30 AM - 12:35 AM	44.5	53.5	49.6	49.6	49.6	49.6
12:35 AM - 12:40 AM	44.7	53.5	49.6	49.6	49.6	49.6
12:40 AM - 12:45 AM	44.4	53.5	49.6	49.6	49.6	49.6

Approved by

Wilwan Borikak
Manager

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Analysis / Test Report

TESTING
No.0042

Lot ID: 23107697
Date Received : Sep 26, 2023
Date Reported : Oct 10, 2023
Report Number : 2791155-1C1

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabyangpoom, Pluak Daeng,
Rayong Thailand 21140
P/O : 230120016
Project Name : ABPR 2
Project Location :
Sample No. : 23107697-5
Parameter : เสียงรบกวน
Location : บริเวณด้านหน้าอาคาร
Measurement Date : Sep 22 - 23, 2023
Measurement by : Nonlathai Uppalump
Sound Level Meter : 00734220

เวลา	เสียงจาก แหล่งกำเนิด	เสียงรบกวน ในบริเวณรอบๆ	ระดับเสียง (dB(A))			ค่าเฉลี่ย การรบกวน
			ค่าเฉลี่ย ระดับเสียง	ค่าเฉลี่ย เสียงรบกวน	ค่าเฉลี่ย เสียงรบกวน	
12:45 AM - 12:50 AM	43.7	53.5	48.6	48.6	48.6	48.6
12:50 AM - 12:55 AM	43.4	53.5	48.6	48.6	48.6	48.6
12:55 AM - 01:00 AM	44.5	53.5	49.0	49.0	49.0	49.0
01:00 AM - 01:05 AM	45.5	53.5	49.5	49.5	49.5	49.5
01:05 AM - 01:10 AM	45.5	53.5	49.5	49.5	49.5	49.5
01:10 AM - 01:15 AM	43.0	53.5	48.0	48.0	48.0	48.0
01:15 AM - 01:20 AM	43.0	53.5	48.0	48.0	48.0	48.0
01:20 AM - 01:25 AM	44.1	53.5	49.4	49.4	49.4	49.4
01:25 AM - 01:30 AM	43.4	53.5	48.6	48.6	48.6	48.6
01:30 AM - 01:35 AM	42.9	53.5	48.0	48.0	48.0	48.0
01:35 AM - 01:40 AM	43.0	53.5	48.6	48.6	48.6	48.6
01:40 AM - 01:45 AM	43.7	53.5	49.0	49.0	49.0	49.0
01:45 AM - 01:50 AM	43.0	53.5	48.6	48.6	48.6	48.6
01:50 AM - 01:55 AM	43.6	53.5	49.0	49.0	49.0	49.0
01:55 AM - 02:00 AM	42.4	53.5	48.0	48.0	48.0	48.0
02:00 AM - 02:05 AM	42.7	53.5	48.6	48.6	48.6	48.6
02:05 AM - 02:10 AM	43.7	53.5	49.0	49.0	49.0	49.0
02:10 AM - 02:15 AM	42.7	53.5	48.6	48.6	48.6	48.6
02:15 AM - 02:20 AM	42.4	53.5	48.0	48.0	48.0	48.0
02:20 AM - 02:25 AM	42.5	53.5	48.6	48.6	48.6	48.6
02:25 AM - 02:30 AM	42.7	53.5	48.6	48.6	48.6	48.6
02:30 AM - 02:35 AM	42.0	53.5	48.0	48.0	48.0	48.0
02:35 AM - 02:40 AM	40.9	53.5	46.9	46.9	46.9	46.9
02:40 AM - 02:45 AM	41.6	53.5	47.6	47.6	47.6	47.6
02:45 AM - 02:50 AM	41.8	53.5	47.8	47.8	47.8	47.8
02:50 AM - 02:55 AM	41.2	53.5	47.2	47.2	47.2	47.2
02:55 AM - 03:00 AM	41.8	53.5	47.8	47.8	47.8	47.8
03:00 AM - 03:05 AM	41.3	53.5	47.3	47.3	47.3	47.3
03:05 AM - 03:10 AM	42.4	53.5	48.6	48.6	48.6	48.6
03:10 AM - 03:15 AM	42.5	53.5	48.6	48.6	48.6	48.6
03:15 AM - 03:20 AM	41.5	53.5	47.6	47.6	47.6	47.6
03:20 AM - 03:25 AM	41.7	53.5	47.8	47.8	47.8	47.8
03:25 AM - 03:30 AM	41.7	53.5	47.8	47.8	47.8	47.8
03:30 AM - 03:35 AM	41.5	53.5	47.6	47.6	47.6	47.6
03:35 AM - 03:40 AM	42.2	53.5	48.6	48.6	48.6	48.6
03:40 AM - 03:45 AM	42.8	53.5	49.4	49.4	49.4	49.4
03:45 AM - 03:50 AM	41.5	53.5	47.6	47.6	47.6	47.6
03:50 AM - 03:55 AM	41.9	53.5	47.8	47.8	47.8	47.8
03:55 AM - 04:00 AM	40.9	53.5	46.9	46.9	46.9	46.9
04:00 AM - 04:05 AM	42.2	53.5	48.6	48.6	48.6	48.6

Approved by

Wilwan Borikak
Manager

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Analysis / Test Report

Client : Anata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Anata City Industrial Estate, Highway 331, Maibangpore, Pluak Daeng,
Rayong Thailand 21140
P/O : 2301120016 : ASPR 2
Project Name :
Project Location :
Sample No. : 231076975
Parameter : เสียงรบกวน
Location : บริเวณถนนหน้าหมู่บ้าน
Measurement Date : Sep 22 - 23, 2023
Measurement by : Nontchai Uppathamp
Sound Level Meter : 00734220

Page 3 of 3

Sample No. Parameter Location Measurement Date Measurement by Sound Level Meter	23107897-5 เสียงรบกวน บริเวณสถานีวิทยุคมนาคมทาง Sep 22 - 23, 2023 Nontchai Uppathamp 00734220						
เวลา	เสียงจากแหล่งกำเนิด	เสียงขณะไม่มีการรบกวน	ผลต่างระดับเสียง	ค่าปรับค่า	ปรับค่าเสียงจากแหล่งกำเนิดลดทอนค่าปรับ	เสียงพื้นถิ่น	ค่าระดับการรบกวน
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	43.8	53.5	-9.7	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	71.8	45.6	26.2
05:20 AM - 05:25 AM	66.9	53.5	13.4	0.0	66.9	45.6	21.3
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
หมายเหตุ							< 10

Reference Method : ISO 1996-1
หมายเหตุ
1. ปะิกษาการตรวจวัดเสียงรบกวน ซึ่ง ให้นำค่าระดับเสียงรบกวนและระดับเสียงที่ได้จากการตรวจวัดมาเปรียบเทียบกับค่ามาตรฐาน ม.ร. 2548
2. ปะิกษาการตรวจวัดเสียงรบกวน ซึ่ง ให้นำค่าระดับเสียงรบกวนและระดับเสียงที่ได้จากการตรวจวัดมาเปรียบเทียบกับค่ามาตรฐาน ม.ร. 2553
3. ปะิกษาการตรวจวัดเสียงรบกวน ซึ่ง ให้นำค่าระดับเสียงรบกวนและระดับเสียงที่ได้จากการตรวจวัดมาเปรียบเทียบกับค่ามาตรฐาน ม.ร. 2561
ระดับเสียงรบกวนที่วัดได้เกินค่ามาตรฐาน ม.ร. 2548, ม.ร. 2553, ม.ร. 2561
ระดับเสียงรบกวนที่วัดได้เกินค่ามาตรฐาน ม.ร. 2548, ม.ร. 2553, ม.ร. 2561

Approved by

Wilawan Borirak
Manager

The above results are valid only for the test method specified in the standard (ISO 1996-1) and the test method specified in the standard (ISO 1996-1) and the test method specified in the standard (ISO 1996-1).

ภาคผนวก ค-7

ระดับเสียงในสถานที่ทำงาน



Analysis / Test Report

Client: Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabyangpoom, Pluak Daeng, Rayong
Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :
Lot ID: 23102188
Date Received : Sep 08, 2023
Date Reported : Sep 14, 2023
Report Number: 2772248-1

Page 1 of 1

Sample Number	23102188-1			
Parameter	Noise (Leq 8 hrs.)			
Location	Gas Turbine Generator (GT 21)			
Measurement Date	Sep 08, 2023			
Measurement by	Sanb Chaichana			
	Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
	08:30 AM - 09:30 AM	77.8	79.5	77.5
	09:30 AM - 10:30 AM	77.9	79.5	77.6
	10:30 AM - 11:30 AM	77.8	79.7	77.4
	11:30 AM - 12:30 PM	77.6	79.2	77.1
	12:30 PM - 01:30 PM	77.1	78.4	76.7
	01:30 PM - 02:30 PM	77.5	84.3	77.0
	02:30 PM - 03:30 PM	77.4	78.9	77.0
	03:30 PM - 04:30 PM	77.5	78.8	77.2

Technical Management

Thanitak.

Approved by

Supt S.

Thantita Kulsurwong

Scientist (4)

Supt Salammeh

Section Head

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8754-71/EMAIL

S:Report_AirNoise.pdf (1:32PM)



Analysis / Test Report

Client: Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Mabyangpoom, Pluak Daeng, Rayong
Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :
Lot ID: 23102188
Date Received : Sep 08, 2023
Date Reported : Sep 14, 2023
Report Number: 2772249-1

Page 1 of 1

Sample Number	23102188-2		
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	79.4	85.4	77.6
09:30 AM - 10:30 AM	78.6	83.7	77.1
10:30 AM - 11:30 AM	78.8	86.6	77.1
11:30 AM - 12:30 PM	78.7	84.9	77.0
12:30 PM - 01:30 PM	78.3	83.9	76.7
01:30 PM - 02:30 PM	78.3	86.1	76.7
02:30 PM - 03:30 PM	78.5	86.7	76.8
03:30 PM - 04:30 PM	78.3	83.6	76.8

Technical Management

Thanitak.

Approved by

Supt S.

Thantita Kulsurwong

Scientist (4)

Supt Salammeh

Section Head

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S:Report_AirNoise.pdf (1:32PM)



Analysis / Test Report

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Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :
Lot ID: 23102188
Date Received : Sep 08, 2023
Date Reported : Sep 14, 2023
Report Number: 2772250-1

Page 1 of 1

Sample Number	23102188-3			
Parameter	Noise (Leq 8 hrs.)			
Location	Steam Turbine (ST 20)			
Measurement Date	Sep 08, 2023			
Measurement by	Seno Chaihana			
	Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
	08:30 AM - 09:30 AM	75.8	78.1	75.1
	09:30 AM - 10:30 AM	75.6	78.9	74.9
	10:30 AM - 11:30 AM	75.7	78.9	74.9
	11:30 AM - 12:30 PM	75.4	78.4	74.7
	12:30 PM - 01:30 PM	75.5	78.3	74.8
	01:30 PM - 02:30 PM	75.9	80.2	75.1
	02:30 PM - 03:30 PM	75.5	78.5	74.8
	03:30 PM - 04:30 PM	75.4	79.7	74.7

Technical Management : Tharitat. Scientist (4)
Approved by : Supt S. Supt Salamatich Section Head

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Analysis / Test Report

Client : Ananta B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Maibyangpore, Phrak Daeng, Rayong
Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :
Lot ID: 23139270
Date Received : Dec 04, 2023
Date Reported : Dec 07, 2023
Report Number: 2857215-1

Page 1 of 1

Sample Number	23139270-1		
Parameter	Noise (Leq 8 hrs.)		
Location	Gas Turbine Generator (GT 21)		
Measurement Date	Dec 04, 2023		
Measurement by	Peeapat Kahlam		
Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	76.6	81.9	76.4
10:00 AM - 11:00 AM	76.8	77.9	76.6
11:00 AM - 12:00 PM	76.9	78.0	76.6
12:00 PM - 01:00 PM	82.1	93.1	76.7
01:00 PM - 02:00 PM	77.4	80.4	76.8
02:00 PM - 03:00 PM	77.4	81.7	77.1
03:00 PM - 04:00 PM	77.3	79.1	76.9
04:00 PM - 05:00 PM	79.9	84.2	79.6

Technical Management : Tharitat. Scientist (4)
Approved by : Supt S. Supt Salamatich Section Head

Tharitat. Scientist (4)

Approved by

Supt S. Supt Salamatich Section Head

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7/317 Moo 6, Ananta City Industrial Estate, Highway 331, Maibyangporm, Pluak Daeng, Rayong
Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Sample Number	23139270-3
Parameter	Noise (Leq 8 hrs.)
Location	Steam Turbine (ST 20)
Measurement Date	Dec 04, 2023
Measurement by	Petergaj Kalkam

Time	L _{eq} (dB(A))	L _{max} (dB(A))	L ₉₀ (dB(A))
09:00 AM - 10:00 AM	75.0	77.9	74.3
10:00 AM - 11:00 AM	75.2	78.0	74.4
11:00 AM - 12:00 PM	75.3	77.6	74.5
12:00 PM - 01:00 PM	75.1	78.5	75.3
01:00 PM - 02:00 PM	76.7	80.3	75.9
02:00 PM - 03:00 PM	76.7	80.2	75.9
03:00 PM - 04:00 PM	77.0	81.3	76.3
04:00 PM - 05:00 PM	77.6	81.9	76.9

Leq Average 8 hrs. (dB(A))	78.4	89.5
Lmax (dB(A))	90	140
Standard	Reference Method : ISO 1996-1 and 1996-2 Standard : ใช้นิพจน์ค่าเฉลี่ยถ่วงน้ำหนักของค่าการวัดที่ได้มา เพื่อแสดงถึงผลกระทบของเสียงที่มีต่อสุขภาพของมนุษย์	

Technical Management

Tharitak.

Tharita Kulsumwong
Scientist (4)

Approved by

Supt S.

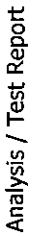
Supt Salameh
Section Head

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S:\Reports\Air Noise.rpt (2:03PM)



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Thailand 21140
P/O : 2301120016
Project Name : ABPH 2
Project Location :

Sample Number	23139270-2
Parameter	Noise (Leq 8 hrs.)
Location	Air Compressor
Measurement Date	Dec 04, 2023
Measurement by	Peerasat Kulkarni

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
09:00 AM - 10:00 AM	76.9	84.0	75.8
10:00 AM - 11:00 AM	76.9	87.8	75.8
11:00 AM - 12:00 PM	76.9	80.0	75.7
12:00 PM - 01:00 PM	87.0	98.1	76.6
01:00 PM - 02:00 PM	78.0	82.0	76.7
02:00 PM - 03:00 PM	78.1	81.4	76.7
03:00 PM - 04:00 PM	79.0	96.1	76.9
04:00 PM - 05:00 PM	84.9	96.0	74.5

Leq Average 8 hrs. (dB(A))	81.6
Lmax (dB(A))	
Standard (dB(A))	90
Reference Method : ISO 996-1 and 1996-2	
Standard : กรมส่งเสริมการค้าระหว่างประเทศ กระทรวงพาณิชย์ กรมส่งเสริมการค้าระหว่างประเทศ กระทรวงพาณิชย์ กรมส่งเสริมการค้าระหว่างประเทศ กระทรวงพาณิชย์	

Technical Management

Tharitak.

Tharita Kulsumwong
Scientist (4)

Approved by

Supt S.

Supt. Salameh
Section Head

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ภาคผนวก ค-8

ระดับความร้อนในสถานประกอบการ



Analysis / Test Report

Client : Amata B. Grimm Power (Rayong) 2 Limited
7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangporn, Pluak
Daeng, Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Lot ID: 2337957

Date Received : Apr 06, 2023
Date Reported : Apr 10, 2023
Report Number: 2613144-1

Page 1 of 2

Sample Number 2337957-1
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	31.2	26.7	43.6	38.1
Average (WBGT)		31.2			
Guideline WBGT (°C)		34.0			

Reference Method : Wet Bulb Globe Temperature

Guideline:

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

Technical Management

Supot Salamteh
Section Head

Approved by

Wichan Choonharat
Assistant Manager

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Analysis / Test Report

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7/317 Moo 6, Amata City Industrial Estate, Highway 331, Mabyangporn, Pluak
Daeng, Rayong Thailand 21140
P/O : 2301120016
Project Name : ABPR 2
Project Location :

Lot ID: 2337957
Date Received : Apr 06, 2023
Date Reported : Apr 10, 2023
Report Number: 2613144-1

Page 2 of 2

Sample Number 2337957-2
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	32.3	27.4	45.6	39.8
Average (WBGT)		32.3			
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 Environment in 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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