

คุณภาพอากาศจากแหล่งกำเนิด

Request No. LA65-0504

Report No. 6505-0239

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrothrad Rd., T. Maplaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : ERU Stack (AOG)
SAMPLING DATE : 26/04/2022
RECEIVED DATE : 03/05/2022
TESTED DATE : 03-20/05/2022

SAMPLE NO. : 02280
SAMPLING TIME : 11:40-12:10
REPORTED DATE : 23/05/2022

STACK DESCRIPTION

Height : 60.30 m
Diameter : 4.30 m
Temperature : 185.70 °C
Air Velocity : 17.48 m/s
Flow rate² : 130.55 m³/s
Moisture Content : 13.25 %
Type of Process : Combustion
Type Of Fuel : Natural Gas
Oxygen Content : 3.18 %
Barometric Pressure : 757.75 mm.Hg
Atmospheric Temperature : 36.00 °C

PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Hydrogen Cyanide ³ (HCN)	Spectrophotometric	11:40-12:10	0.38	0.38	2.0 mg/m ³

REMARK:

- ¹ IFC, 2007. ENVIRONMENTAL, HEALTH AND SAFETY GUIDELINES FOR LARGE VOLUME PETROLEUM-BASED ORGANIC CHEMICALS MANUFACTURING
- ² DRY BASIS (0°C, 760 mm.Hg)
- ³ SAMPLING BY EASTERN THAI CONSULTING 1992 CO.,LTD.
(MR. TEERAPONG NAULIN)
- ANALYSED BY THE OFFICE OF PUBLIC HEALTH AND ENVIRONMENTAL TECHNOLOGY SERVICES ,FACULTY OF PUBLIC HEALTH ,MAHIDOL UNIVERSITY

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA65-0504

Report No. 6505-0231

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakomsongkrothrad Rd., T. Maplaphut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : WWI Stack
SAMPLING DATE : 26/04/2022
RECEIVED DATE : 03/05/2022
TESTED DATE : 03-09/05/2022

SAMPLE NO. : 02265-02267
SAMPLING TIME : 10:20-11:10
REPORTED DATE : 12/05/2022

STACK DESCRIPTION

Height : 60.00 m
Diameter : 1.89 m
Temperature : 47.00 °C
Air Velocity : 1.91 m/s
Flow rate² : 4.74 m³/s
Moisture Content : 5.01 %
Type of Process : Combustion
Type Of Fuel : Natural Gas
Oxygen Content : 11.55 %
Barometric Pressure : 757.75 mm.Hg
Atmospheric Temperature : 32.30 °C

PARAMETER*	TEST METHOD	TIME	RESULT ²	STD	UNIT
11.55 % O ₂ 7 % O ₂					
Particulate (TSP)	Isokinetic, Gravimetric	10:20-11:10	1.0	1.5	320 ¹ , 32 ² mg/m ³
Sulfur Dioxide (SO ₂)	Barium Thorin Titrimetric	10:20-10:50	0.0047	-	0.58 ² g/s
			<3.4	<3.4	157 ¹ mg/m ³
Oxides of Nitrogen (NO as NO ₂)	Chemical Absorption, Colorimetric	10:40-10:45	<1.3	<1.3	60 ¹ , 28 ² ppm
			<0.0161	-	1.32 ² g/s
			3.6	5.4	376 ¹ mg/m ³
			1.9	2.8	200 ¹ , 50 ² ppm
			0.0171	-	1.69 ² g/s

REMARK:

- ¹ NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)
- ² LIMIT VALUES IN ENVIRONMENTAL IMPACT ASSESSMENT REPORT
- ³ DRY BASIS (25°C, 760 mm.Hg)
- * SAMPLING BY MR. TEERAPONG NAULIN (๓-๐๐3-๒-562๐)

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Request No. LA65-0504

Report No. 6505-0241

TEST REPORT

CUSTOMER : NPC Safety and Environmental Service Co., Ltd.
ADDRESS : 20/9 Pakornsongkroh Rd., T. Maiphatut A. Muangrayong, Rayong 21150
SAMPLE SOURCE : PTT Asahi Chemical Co., Ltd.
SAMPLE POINT : SAR Stack
SAMPLING DATE : 27/04/2022
RECEIVED DATE : 03/05/2022
TESTED DATE : 03-09/05/2022

SAMPLE NO. : 02283-02285
SAMPLING TIME : 10:00-11:00
REPORTED DATE : 12/05/2022

STACK DESCRIPTION

Height : 61.00 m
Diameter : 2.40 m
Temperature : 43.00 °C
Air Velocity : 1.57 m/s
Flow rate^a : 6.23 m³/s
Moisture Content : 6.58 %
Type of Process : Combustion
Type Of Fuel : Natural Gas
Oxygen Content : 4.13 %
Barometric Pressure : 757.75 mm.Hg
Atmospheric Temperature : 35.00 °C

PARAMETER*	TEST METHOD	TIME	RESULT ^a			STD	UNIT
			4.13 % O ₂	7 % O ₂			
Particulate (TSP)	Isokinetic, Gravimetric	10:00-11:00	3.8	3.1	320 ^b , 32 ^a		mg/m ³
Sulfur Dioxide (SO ₂)	Barium Thorin Titrimetric	10:10-10:40	<3.4	<3.4	157 ^b	0.15 ^a	mg/m ³
			<1.3	<1.3	60 ^b , 28 ^a		ppm
			<0.0212	-	0.34 ^a		g/s
Oxides of Nitrogen (NO _x as NO ₂)	Chemical Absorption, Colorimetric	10:10-10:15	27.2	22.5	376 ^b		mg/m ³
			14.5	12.0	200 ^b , 50 ^a		ppm
			0.1695	-	0.44 ^a		g/s

REMARK:

^a NOTIFICATION OF THE MINISTRY OF INDUSTRY B.E. 2549 (2006)^a LIMIT VALUES IN ENVIRONMENTAL IMPACT ASSESSMENT REPORT^a DRY BASIS (25°C, 760 mm.Hg)

* SAMPLING BY MR. TEERAPONG NAULIN (0-003-0-5620)

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

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