

ภาคผนวก ง

## ใบรับรองผลการตรวจวัดคุณภาพอากาศในบรรยากาศ

## ภาคผนวก ง.1

ใบรับรองผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม  
ระหว่างเดือนสิงหาคม ถึงธันวาคม พ.ศ.2566  
ระยะก่อสร้าง

ภาคผนวก ง.1-1

ใบรับรองผลการตรวจวัดคุณภาพอากาศในบรรยากาศ



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800  
239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/Amb/Nov
	(Branch 5 : Aromatics 2 Plant)		
MEASUREMENT BY	: SECOT Co., Ltd.	SAMPLING DATE	: 20-27/11/2023
RECEIVED DATE	: 11/12/2023	ANALYTICAL DATE	: 11-13/12/2022
REPORT DATE	: 14/12/2023	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Phuwadech Kaewjirakulsri	LOCATION DESCRIPTION	: Ban Nurnpayom

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
TSP (24 hr)	20-21/11/2023	mg/cu.m.	0.084	0.330	High Volume Air
	21-22/11/2023	mg/cu.m.	0.073		Sampler/Gravimetric
	22-23/11/2023	mg/cu.m.	0.078		Method
	23-24/11/2023	mg/cu.m.	0.070		
	24-25/11/2023	mg/cu.m.	0.053		
	25-26/11/2023	mg/cu.m.	0.066		
	26-27/11/2023	mg/cu.m.	0.048		

Phatchara Samanchon

(Miss Phatchara Samanchan)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

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3. \* Notification of the National Environment Board, No.24, B.E.2547 (2004).



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RECEIVED DATE	: 11/12/2023	ANALYTICAL DATE	: 11-13/12/2022
REPORT DATE	: 14/12/2023	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Phuwadech Kaewjirakulsri	LOCATION DESCRIPTION	: Ban Bon

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
TSP (24 hr)	20-21/11/2023	mg/cu.m.	0.074	0.330	High Volume Air
	21-22/11/2023	mg/cu.m.	0.055		Sampler/Gravimetric
	22-23/11/2023	mg/cu.m.	0.053		Method
	23-24/11/2023	mg/cu.m.	0.046		
	24-25/11/2023	mg/cu.m.	0.054		
	25-26/11/2023	mg/cu.m.	0.056		
	26-27/11/2023	mg/cu.m.	0.040		

Phatchara Samanchon

(Miss Phatchara Samanchan)

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RECEIVED DATE	: 11/12/2023	ANALYTICAL DATE	: 11-13/12/2023
REPORT DATE	: 14/12/2023	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Phuwadech Kaewjirakulsri	LOCATION DESCRIPTION	: Ban Mabya

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
TSP (24 hr)	20-21/11/2023	mg/cu.m.	0.069	0.330	High Volume Air
	21-22/11/2023	mg/cu.m.	0.068		Sampler/Gravimetric
	22-23/11/2023	mg/cu.m.	0.066		Method
	23-24/11/2023	mg/cu.m.	0.055		
	24-25/11/2023	mg/cu.m.	0.053		
	25-26/11/2023	mg/cu.m.	0.071		
	26-27/11/2023	mg/cu.m.	0.046		

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

Narisa Poowasanpetch

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4. The sampling was not taken during November 14-15, 2021 because power outage.



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RECEIVED DATE	: 11/12/2023	ANALYTICAL DATE	: 11-13/12/2023
REPORT DATE	: 14/12/2023	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Phuwadech Kaewjirakulsri	LOCATION DESCRIPTION	: Project Area

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
TSP (24 hr)	20-21/11/2023	mg/cu.m.	0.044	0.330	High Volume Air
	21-22/11/2023	mg/cu.m.	0.055		Sampler/Gravimetric
	22-23/11/2023	mg/cu.m.	0.038		Method
	23-24/11/2023	mg/cu.m.	0.047		
	24-25/11/2023	mg/cu.m.	0.043		
	25-26/11/2023	mg/cu.m.	0.047		
	26-27/11/2023	mg/cu.m.	0.029		

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

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RECEIVED DATE	: 11/12/2023	ANALYTICAL DATE	: 11-13/12/2023
REPORT DATE	: 14/12/2023	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Phuwadech Kaewjirakulsri	LOCATION DESCRIPTION	: Ban Nurnpayom

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	20-21/11/2023	mg/cu.m.	0.071	0.120	High Volume
	21-22/11/2023	mg/cu.m.	0.054		Air Sampler
	22-23/11/2023	mg/cu.m.	0.057		(Hi-Vol PM-10
	23-24/11/2023	mg/cu.m.	0.050		Size Selective Inlet)/
	24-25/11/2023	mg/cu.m.	0.039		Gravimetric Method
	25-26/11/2023	mg/cu.m.	0.054		
	26-27/11/2023	mg/cu.m.	0.028		

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

Narisa Poowasanpetch

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REPORT DATE	: 14/12/2023	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Phuwadech Kaewjirakulsri	LOCATION DESCRIPTION	: Ban Bon

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	20-21/11/2023	mg/cu.m.	0.060	0.120	High Volume
	21-22/11/2023	mg/cu.m.	0.031		Air Sampler
	22-23/11/2023	mg/cu.m.	0.028		(Hi-Vol PM-10
	23-24/11/2023	mg/cu.m.	0.035		Size Selective Inlet)/
	24-25/11/2023	mg/cu.m.	0.041		Gravimetric Method
	25-26/11/2023	mg/cu.m.	0.049		
	26-27/11/2023	mg/cu.m.	0.034		

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

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REPORT DATE	: 14/12/2023	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Phuwadech Kaewjirakulsri	LOCATION DESCRIPTION	: Ban Mabya

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	20-21/11/2023	mg/cu.m.	0.056	0.120	High Volume
	21-22/11/2023	mg/cu.m.	0.047		Air Sampler
	22-23/11/2023	mg/cu.m.	0.048		(Hi-Vol PM-10
	23-24/11/2023	mg/cu.m.	0.038		Size Selective Inlet)/
	24-25/11/2023	mg/cu.m.	0.033		Gravimetric Method
	25-26/11/2023	mg/cu.m.	0.038		
	26-27/11/2023	mg/cu.m.	0.018		

Phatchara Samanchon

(Miss Phatchara Samanchan)

Analyst

Mairisa Poowasanpetch

(Miss Narisa Poowasanpetch)

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REPORT DATE	: 14/12/2023	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Phuwadech Kaewjirakulsri	LOCATION DESCRIPTION	: Project Area

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	20-21/11/2023	mg/cu.m.	0.034	0.120	High Volume
	21-22/11/2023	mg/cu.m.	0.036		Air Sampler
	22-23/11/2023	mg/cu.m.	0.030		(Hi-Vol PM-10
	23-24/11/2023	mg/cu.m.	0.034		Size Selective Inlet)/
	24-25/11/2023	mg/cu.m.	0.029		Gravimetric Method
	25-26/11/2023	mg/cu.m.	0.032		
	26-27/11/2023	mg/cu.m.	0.020		

Phatchara Samanchon

(Miss Phatchara Samanchan)

Analyst

Mairisa Poowasanpetch

(Miss Narisa Poowasanpetch)

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ภาคผนวก ง.1-2

ใบรับรองผลการตรวจวัดระดับเสียงโดยทั่วไป



## Noise Monitoring Result : Community Noise

### MTR-PTTGC 5

Location : Noppakate Village      Monitor Period : 20-27 Nov 2023  
 SLM Model : RION NL-21      Serial No : 00487734  
 Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74      Serial No : 34283648  
 Calibration Ref dB(A) : 94.0      Certified Date : 13 Jan 2023  
 SLM Reading / Adjust dB(A) : 93.8/0.2      Expire Date : 12 Jan 2024  
 Cal Sheet No.: NC-74-2023-054

Time	Equivalent Sound Pressure Level (dB(A))							
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023	27 Nov 2023
16:00 - 17:00	51.7	54.7	54.5	52.7	54.6	54.1	53.9	
17:00 - 18:00	53.7	53.7	54.6	57.3	55.2	54.7	54.3	
18:00 - 19:00	53.5	52.4	52.9	54.9	57.3	55.9	56.8	
19:00 - 20:00	51.4	53.8	52.8	55.9	56.6	55.8	54.9	
20:00 - 21:00	51.8	49.3	50.7	54.1	55.1	54.8	56.2	
21:00 - 22:00	49.1	48.7	48.8	53.2	54.8	53.4	54.9	
22:00 - 23:00	49.1	47.9	51.6	49.7	51.7	52.0	54.4	
23:00 - 00:00	45.8	46.5	49.9	48.6	50.3	54.0	53.2	
00:00 - 01:00	46.6	45.1	48.8	48.3	48.6	49.8	49.9	
01:00 - 02:00	46.1	45.3	50.1	46.7	47.5	49.2	49.0	
02:00 - 03:00	47.6	48.8	52.1	48.6	45.5	47.3	48.2	
03:00 - 04:00	50.3	50.1	54.3	45.3	45.1	47.1	46.9	
04:00 - 05:00	53.4	52.1	56.0	48.9	46.7	47.8	46.5	
05:00 - 06:00	56.0	52.6	55.5	50.3	48.3	49.2	44.6	
06:00 - 07:00	55.6	55.2	54.4	52.6	51.0	50.9	48.0	
07:00 - 08:00	52.9	55.5	53.8	55.2	52.8	52.6	49.3	
08:00 - 09:00	55.3	53.9	53.2	56.6	54.6	55.2	52.1	
09:00 - 10:00	52.3	52.5	54.3	53.9	56.8	55.5	54.6	
10:00 - 11:00	54.0	52.4	54.0	53.2	54.4	54.4	56.8	
11:00 - 12:00	53.1	53.6	53.1	54.0	52.5	53.2	54.4	
12:00 - 13:00	52.3	54.6	53.1	53.2	53.3	54.0	52.4	
13:00 - 14:00	53.3	53.9	53.1	53.7	53.8	52.4	52.3	
14:00 - 15:00	51.7	54.3	54.1	53.1	52.9	53.6	53.4	
15:00 - 16:00	56.6	54.9	52.8	54.1	53.1	54.6	52.7	
Leq(24)*	52.7	52.7	53.2	53.2	53.4	53.3	53.2	
Ldn	58.4	57.6	59.6	56.9	56.8	57.6	57.4	
Lmax**	83.9	83.9	78.4	81.8	80.1	84.4	82.3	
Standard-24Hr	70 dB(A)							
Standard-Max	115 dB(A)							

Remark : \* Average time between 16:00-16:00

\*\* Maximum Sound Pressure Level between 16:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise

### MTR-PTTGC 5

Location : Noppakate Village      Monitor Period : 20-27 Nov 2023  
 SLM Model : RION NL-21      Serial No : 00487734  
 Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74      Serial No : 34283648  
 Calibration Ref dB(A) : 94.0      Certified Date : 13 Jan 2023  
 SLM Reading / Adjust dB(A) : 93.8/0.2      Expire Date : 12 Jan 2024  
 Cal Sheet No.: NC-74-2023-054

Time	L90 (dB(A))							
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023	27 Nov 2023
16:00 - 17:00	45.4	48.6	50.0	45.9	48.8	48.6	47.3	
17:00 - 18:00	48.3	47.6	48.8	51.4	47.5	48.2	48.2	
18:00 - 19:00	46.6	45.7	47.5	48.8	47.8	50.0	51.5	
19:00 - 20:00	45.0	44.9	46.8	49.6	52.1	49.5	49.0	
20:00 - 21:00	43.2	43.0	46.8	48.9	51.0	49.1	50.5	
21:00 - 22:00	42.2	42.0	46.2	45.3	49.2	47.8	48.9	
22:00 - 23:00	41.0	40.9	46.7	43.7	44.0	46.5	48.4	
23:00 - 00:00	40.6	40.2	46.6	43.5	42.9	46.3	45.9	
00:00 - 01:00	41.0	39.5	46.5	43.0	42.7	45.9	43.9	
01:00 - 02:00	41.2	41.0	46.3	43.6	41.9	45.2	43.9	
02:00 - 03:00	40.8	46.5	46.7	42.3	40.6	44.9	42.6	
03:00 - 04:00	41.2	46.3	48.4	42.4	39.9	44.9	41.7	
04:00 - 05:00	44.7	46.7	51.0	42.3	40.7	45.2	41.0	
05:00 - 06:00	49.7	44.2	50.2	42.5	42.6	45.3	40.6	
06:00 - 07:00	49.5	48.4	49.0	44.2	43.0	45.5	41.8	
07:00 - 08:00	49.7	50.2	49.7	48.4	45.2	44.2	42.5	
08:00 - 09:00	49.4	48.0	48.5	51.5	49.3	48.4	43.9	
09:00 - 10:00	45.4	45.9	49.3	48.0	51.5	50.2	49.3	
10:00 - 11:00	46.1	45.3	45.5	47.1	48.3	49.0	51.5	
11:00 - 12:00	44.5	47.2	47.6	45.5	46.9	47.1	48.3	
12:00 - 13:00	45.1	47.8	47.6	46.7	47.2	45.5	45.6	
13:00 - 14:00	45.1	47.3	48.1	46.0	48.2	45.3	44.2	
14:00 - 15:00	45.4	48.2	48.6	45.9	46.7	47.2	46.6	
15:00 - 16:00	48.9	49.9	46.8	48.9	48.1	47.8	45.7	
L90(avg)*	45.8	46.5	48.1	47.0	47.4	47.4	47.1	

Remark : \* Average time between 16:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Community Noise

### MTR-PTTGC 5

Location : Ban Phak PTT      Monitor Period : 20-27 Nov 2023  
 SLM Model : RION NL-21      Serial No : 00187489  
 Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74      Serial No : 34283648  
 Calibration Ref dB(A) : 94.0      Certified Date : 13 Jan 2023  
 SLM Reading / Adjust dB(A) : 93.5/0.5      Expire Date : 12 Jan 2024  
 Cal Sheet No.: NC-74-2023-054

Time	Equivalent Sound Pressure Level (dB(A))						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
16:00 - 17:00	53.9	54.0	52.9	53.0	57.9	52.4	51.3
17:00 - 18:00	53.4	53.6	54.2	53.5	52.8	53.0	55.9
18:00 - 19:00	52.6	60.1	53.3	56.3	52.3	52.5	52.2
19:00 - 20:00	51.7	52.8	53.5	52.4	53.4	52.8	51.6
20:00 - 21:00	49.6	49.8	51.1	52.3	55.3	50.3	52.0
21:00 - 22:00	47.4	48.4	50.5	50.9	53.2	51.1	50.7
22:00 - 23:00	46.5	47.0	48.0	49.7	50.3	50.2	50.5
23:00 - 00:00	46.4	47.6	48.8	48.2	50.0	47.2	48.5
00:00 - 01:00	44.7	45.1	46.4	47.2	48.4	46.6	48.4
01:00 - 02:00	44.6	44.3	45.5	46.1	47.9	45.0	46.1
02:00 - 03:00	45.3	45.8	46.0	46.3	54.7	46.2	45.9
03:00 - 04:00	47.1	46.6	46.3	46.7	45.6	44.8	45.4
04:00 - 05:00	50.4	49.6	47.4	48.2	45.4	44.2	43.8
05:00 - 06:00	53.8	53.1	54.0	48.6	46.5	47.7	44.6
06:00 - 07:00	54.1	53.4	61.0	53.4	48.4	49.4	48.4
07:00 - 08:00	52.9	54.9	53.8	55.2	51.1	50.7	49.4
08:00 - 09:00	52.4	53.5	56.2	54.6	53.1	53.6	52.5
09:00 - 10:00	52.2	52.4	53.6	54.1	57.2	55.6	56.2
10:00 - 11:00	51.2	52.4	52.4	54.1	54.5	56.1	58.1
11:00 - 12:00	51.6	50.2	52.0	54.0	54.0	52.2	52.9
12:00 - 13:00	53.7	51.6	52.0	51.8	53.5	54.0	53.8
13:00 - 14:00	52.0	52.5	52.0	51.7	53.1	52.9	53.3
14:00 - 15:00	53.6	56.3	55.1	52.2	51.7	51.9	51.9
15:00 - 16:00	52.3	53.0	51.6	52.4	52.5	57.9	52.5
Leq(24)*	51.5	52.8	53.2	52.3	52.9	52.2	52.1
Ldn	56.6	56.8	59.6	56.3	57.0	55.4	55.4
Lmax **	75.6	90.4	76.5	76.4	83.5	72.8	78.5
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 16:00-16:00

\*\* Maximum Sound Pressure Level between 16:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise

### MTR-PTTGC 5

Location : Ban Phak PTT      Monitor Period : 20-27 Nov 2023  
 SLM Model : RION NL-21      Serial No : 00187489  
 Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74      Serial No : 34283648  
 Calibration Ref dB(A) : 94.0      Certified Date : 13 Jan 2023  
 SLM Reading / Adjust dB(A) : 93.5/0.5      Expire Date : 12 Jan 2024  
 Cal Sheet No.: NC-74-2023-054

Time	L90 (dB(A))						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
16:00 - 17:00	49.0	49.4	49.3	48.6	46.6	47.1	46.9
17:00 - 18:00	49.7	50.1	50.6	49.9	47.9	48.7	46.6
18:00 - 19:00	47.9	49.3	51.1	52.3	48.5	47.9	47.8
19:00 - 20:00	46.4	48.0	50.2	49.1	49.5	47.0	47.8
20:00 - 21:00	45.5	45.7	48.4	48.4	49.7	46.7	47.7
21:00 - 22:00	42.7	44.1	46.8	46.8	47.8	47.2	47.1
22:00 - 23:00	42.2	42.5	44.9	45.4	45.9	45.7	45.8
23:00 - 00:00	41.6	42.0	45.6	44.5	44.4	43.5	44.1
00:00 - 01:00	41.3	41.9	42.9	42.9	43.8	43.5	43.4
01:00 - 02:00	42.1	41.1	42.3	41.9	43.8	41.6	42.6
02:00 - 03:00	42.2	41.7	42.1	42.6	42.5	41.5	42.2
03:00 - 04:00	43.7	44.3	43.4	42.9	41.4	41.6	41.8
04:00 - 05:00	46.8	46.0	44.3	44.5	42.1	41.6	40.8
05:00 - 06:00	50.0	49.7	47.7	45.2	42.6	44.0	41.8
06:00 - 07:00	49.3	49.6	50.5	49.0	43.9	46.8	45.2
07:00 - 08:00	48.0	48.4	49.1	50.0	48.0	47.1	45.7
08:00 - 09:00	47.8	47.9	50.3	49.8	50.0	50.4	49.3
09:00 - 10:00	47.5	46.3	49.6	50.1	51.1	51.3	50.0
10:00 - 11:00	46.5	45.3	48.1	50.0	49.2	50.0	53.9
11:00 - 12:00	45.4	45.0	47.0	48.7	48.9	48.9	49.5
12:00 - 13:00	46.3	45.9	47.6	47.7	48.7	50.3	49.6
13:00 - 14:00	47.7	47.7	47.4	47.2	48.4	48.5	49.7
14:00 - 15:00	47.6	53.5	50.4	48.2	47.5	47.6	47.0
15:00 - 16:00	48.0	48.0	46.7	48.0	47.3	53.1	47.3
L90(avg)*	46.8	47.5	48.1	48.0	47.4	47.8	47.6

Remark : \* Average time between 16:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Community Noise

### MTR-PTTGC 5

Location : Project Area      Monitor Period : 20-27 Nov 2023  
 SLM Model : RION NL-21      Serial No : 00187481  
 Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74      Serial No : 34283648  
 Calibration Ref dB(A) : 94.0      Certified Date : 13 Jan 2023  
 SLM Reading / Adjust dB(A) : 94.0/0.0      Expire Date : 12 Jan 2024  
 Cal Sheet No.: NC-74-2023-054

Time	Equivalent Sound Pressure Level (dB(A))						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
14:00 - 15:00	47.9	45.3	46.1	44.8	43.0	46.1	42.9
15:00 - 16:00	48.2	46.2	46.0	43.2	42.7	44.6	44.5
16:00 - 17:00	46.8	47.5	45.7	43.5	43.3	43.6	46.1
17:00 - 18:00	46.4	49.0	46.0	44.5	45.3	44.7	43.0
18:00 - 19:00	49.7	49.3	46.8	47.2	46.9	46.1	42.9
19:00 - 20:00	54.7	48.3	46.8	48.2	46.0	46.8	43.3
20:00 - 21:00	52.6	48.3	46.7	47.8	47.6	47.0	44.7
21:00 - 22:00	50.2	47.7	47.2	46.3	48.5	46.7	44.2
22:00 - 23:00	48.7	47.0	47.2	47.8	48.7	47.3	52.8
23:00 - 00:00	47.2	49.2	46.9	47.4	48.9	47.2	45.1
00:00 - 01:00	47.2	49.1	48.0	47.4	47.3	47.0	46.2
01:00 - 02:00	47.4	47.6	48.4	48.3	47.0	45.4	50.6
02:00 - 03:00	47.4	47.1	47.6	49.1	46.7	46.2	49.8
03:00 - 04:00	47.4	47.4	47.4	48.6	46.2	45.9	45.3
04:00 - 05:00	47.6	47.4	46.6	47.8	46.9	45.9	47.7
05:00 - 06:00	47.3	47.5	46.8	46.9	46.9	46.0	44.7
06:00 - 07:00	45.9	46.2	46.4	46.3	46.6	46.1	44.6
07:00 - 08:00	46.1	44.2	44.5	45.8	46.0	45.8	44.9
08:00 - 09:00	48.1	46.3	43.7	44.4	45.4	45.3	45.0
09:00 - 10:00	47.7	43.2	42.7	43.3	44.5	44.4	44.8
10:00 - 11:00	44.9	43.9	42.2	43.6	43.9	44.2	43.3
11:00 - 12:00	45.1	43.6	42.5	42.9	43.6	42.9	44.9
12:00 - 13:00	44.8	44.3	42.3	42.9	43.4	42.7	43.1
13:00 - 14:00	45.0	47.7	42.8	42.8	43.2	42.5	43.4
Leq(24)*	48.4	47.1	46.1	46.3	46.2	45.6	46.3
Ldn	54.1	54.0	53.5	53.9	53.5	52.6	54.4
Lmax **	73.0	71.0	66.5	68.4	63.0	69.4	68.3
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 14:00-14:00

\*\* Maximum Sound Pressure Level between 14:00-14:00

(Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

(Miss Preeda Somjai)  
 Technical Management Team



## Noise Monitoring Result : Background Noise

### MTR-PTTGC 5

Location : Project Area      Monitor Period : 20-27 Nov 2023  
 SLM Model : RION NL-21      Serial No : 00187481  
 Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74      Serial No : 34283648  
 Calibration Ref dB(A) : 94.0      Certified Date : 13 Jan 2023  
 SLM Reading / Adjust dB(A) : 94.0/0.0      Expire Date : 12 Jan 2024  
 Cal Sheet No.: NC-74-2023-054

Time	L90 (dB(A))						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
14:00 - 15:00	44.8	43.1	44.8	42.0	41.5	42.0	41.2
15:00 - 16:00	47.0	44.3	44.9	41.6	41.3	42.2	43.1
16:00 - 17:00	45.3	46.3	44.5	41.9	41.8	42.0	42.0
17:00 - 18:00	44.6	48.0	44.4	43.1	44.4	42.9	41.2
18:00 - 19:00	45.6	48.4	45.1	44.6	44.8	45.2	41.6
19:00 - 20:00	52.2	47.0	45.8	46.6	44.6	45.2	42.0
20:00 - 21:00	50.0	47.5	45.9	46.3	45.7	45.9	42.7
21:00 - 22:00	48.3	46.3	46.5	45.4	47.7	45.9	43.3
22:00 - 23:00	46.8	45.7	46.4	46.7	48.2	45.8	44.1
23:00 - 00:00	46.4	48.1	46.0	46.3	47.8	45.9	44.3
00:00 - 01:00	46.3	47.4	47.4	46.2	46.4	45.5	44.4
01:00 - 02:00	46.3	46.7	47.7	47.4	46.2	44.2	45.2
02:00 - 03:00	46.4	46.4	46.7	48.3	45.8	45.0	43.9
03:00 - 04:00	46.5	46.6	46.6	47.9	45.2	44.9	43.8
04:00 - 05:00	46.7	46.5	45.8	46.8	44.7	44.8	43.9
05:00 - 06:00	46.2	46.4	45.9	46.0	45.9	45.0	43.7
06:00 - 07:00	44.6	44.8	44.9	45.3	45.4	44.9	43.5
07:00 - 08:00	43.7	42.3	43.2	44.6	44.9	44.6	43.5
08:00 - 09:00	45.3	42.0	41.8	43.1	44.0	44.0	43.8
09:00 - 10:00	44.0	41.6	41.0	41.8	42.9	42.9	43.2
10:00 - 11:00	42.8	41.9	40.6	41.2	42.1	42.4	41.6
11:00 - 12:00	43.5	41.9	40.7	41.0	41.8	41.2	41.9
12:00 - 13:00	43.2	42.0	40.7	41.0	41.6	41.0	41.3
13:00 - 14:00	43.3	45.2	40.8	40.9	41.3	40.8	41.7
L90(avg)*	46.5	45.8	45.0	45.1	44.9	44.2	43.1

Remark : \* Average time between 14:00-14:00

(Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

(Miss Preeda Somjai)  
 Technical Management Team

## ภาคผนวก ง.2

ใบรับรองผลการติดตามตรวจสอบผลกระทบสิ่งแวดล้อม  
ระหว่างเดือนกรกฎาคม ถึงธันวาคม พ.ศ.2566  
ระยะดำเนินการ



ภาคผนวก ง.2-1

ใบรับรองผลการตรวจวัดคุณภาพอากาศในบรรยากาศ



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC5

Location : Ban Numpayom

Monitor period : 20-27 Nov 2023

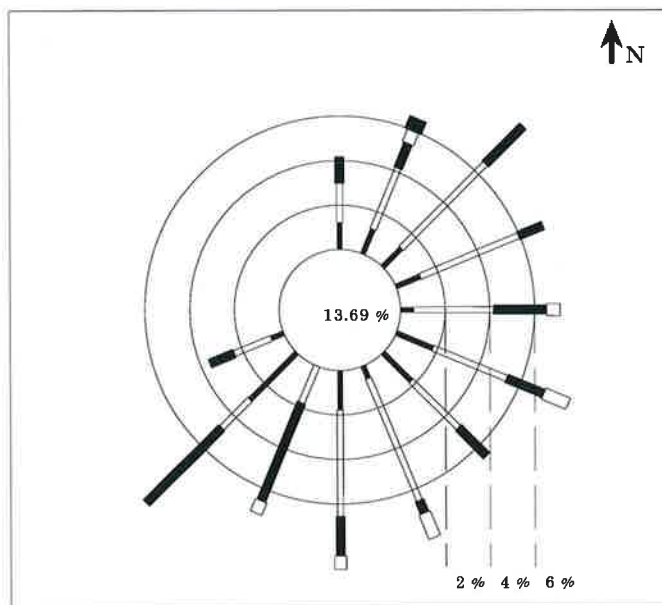
Wind Speed Model : NRG Symphonie

Serial No : A5084

Wind Direction Model : NRG Symphonie

Serial No : A5084

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0119	0.0179	0.0119	0.0000	0.0000	0.0000	0.0417
NNE	0.0119	0.0298	0.0119	0.0060	0.0060	0.0000	0.0655
NE	0.0119	0.0536	0.0238	0.0000	0.0000	0.0000	0.0893
ENE	0.0119	0.0476	0.0119	0.0000	0.0000	0.0000	0.0714
E	0.0060	0.0357	0.0238	0.0060	0.0000	0.0000	0.0714
ESE	0.0179	0.0357	0.0179	0.0119	0.0000	0.0000	0.0833
SE	0.0179	0.0298	0.0179	0.0000	0.0000	0.0000	0.0655
SSE	0.0060	0.0595	0.0060	0.0119	0.0000	0.0000	0.0833
S	0.0179	0.0476	0.0179	0.0060	0.0000	0.0000	0.0893
SSW	0.0000	0.0179	0.0476	0.0060	0.0000	0.0000	0.0714
SW	0.0298	0.0179	0.0476	0.0000	0.0000	0.0000	0.0952
WSW	0.0060	0.0179	0.0119	0.0000	0.0000	0.0000	0.0357
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.1369						



Application : WindPro Ver.1.0

Control : 16 Direction Calculation With  
Calm Wind < 0.5 m/sData Unit : Direction in Deg.  
Wind Speed in m/sNOTE : Frequencies indicate direction from which  
the wind is blowing

File Control : R:\Database\Windrose\FileControl\Win-223097-Ban Numpayom 20-27 Nov 2023

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC5

Location : Ban Nurnpayom

Monitor period : 20-27 Nov 2023

Wind Speed Model : NRG Symphonie

Serial No : A5084

Wind Direction Model : NRG Symphonie

Serial No : A5084

Time	20-21 Nov 2023		21-22 Nov 2023		22-23 Nov 2023		23-24 Nov 2023	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
17:00 - 18:00	1.0	WSW	1.1	E	1.2	SSE	0.1	S
18:00 - 19:00	0.2	SSE	0.2	SE	1.1	E	1.0	SSE
19:00 - 20:00	0.0	E	0.2	ENE	0.4	SW	0.7	SSE
20:00 - 21:00	0.8	S	0.6	S	0.3	N	1.2	NE
21:00 - 22:00	0.4	S	0.4	SW	0.2	NE	0.6	SW
22:00 - 23:00	1.4	NE	0.5	SE	0.1	N	0.2	SSW
23:00 - 24:00	1.1	NE	0.4	NE	0.2	NNE	0.9	SW
00:00 - 01:00	1.8	NE	0.4	SW	0.1	SE	0.6	SW
01:00 - 02:00	1.4	S	1.5	ESE	0.7	ESE	0.7	NNE
02:00 - 03:00	2.4	E	1.1	SW	0.7	SW	0.8	N
03:00 - 04:00	2.0	SE	0.7	NE	0.9	NE	0.4	E
04:00 - 05:00	1.5	SSE	1.3	ENE	1.1	ENE	1.0	WSW
05:00 - 06:00	1.3	E	1.4	N	1.0	N	2.4	S
06:00 - 07:00	2.3	SE	1.9	NNE	1.1	NNE	1.6	ENE
07:00 - 08:00	1.5	ENE	1.5	SSE	1.8	NE	2.1	SW
08:00 - 09:00	1.3	SSE	1.5	SSE	2.2	ENE	3.2	SSE
09:00 - 10:00	2.2	SW	1.6	SE	2.3	NNE	3.2	NNE
10:00 - 11:00	1.7	SE	1.1	SSE	2.9	NE	3.8	ESE
11:00 - 12:00	1.7	S	1.1	ENE	2.2	SW	3.2	E
12:00 - 13:00	1.1	ENE	0.5	E	2.3	SSW	3.4	ESE
13:00 - 14:00	1.4	ESE	0.7	SE	1.6	ESE	4.3	NNE
14:00 - 15:00	0.9	WSW	2.2	ESE	1.9	SSE	2.2	E
15:00 - 16:00	0.6	ENE	2.0	SSW	1.5	S	1.5	ESE
16:00 - 17:00	1.4	SSW	2.1	NNE	1.4	NNE	1.6	SW
Wind Rose								



WIND SPEED (m/s) - Scale 1:3

File Control :R:\Database\Windrose\FileControl\Win-223097-Ban Nurnpayom 20-27 Nov 2023

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC5

Location : Ban Nurnpayom

Monitor period : 20-27 Nov 2023

Wind Speed Model : NRG Symphonie

Serial No : A5084

Wind Direction Model : NRG Symphonie

Serial No : A5084

Time	24-25 Nov 2023		25-26 Nov 2023		26-27 Nov 2023		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
17:00 - 18:00	0.4	E	1.1	ENE	1.9	SSE	
18:00 - 19:00	0.3	S	0.6	SE	1.0	S	
19:00 - 20:00	0.5	SW	1.6	SSW	1.1	E	
20:00 - 21:00	0.3	E	1.1	E	0.9	ESE	
21:00 - 22:00	0.0	NNE	2.0	SW	0.7	N	
22:00 - 23:00	0.4	S	1.8	SE	0.5	ENE	
23:00 - 24:00	0.2	NE	1.0	SE	1.6	NNE	
00:00 - 01:00	0.6	S	0.9	NNE	1.9	ESE	
01:00 - 02:00	1.5	E	0.9	ESE	1.4	S	
02:00 - 03:00	1.7	S	1.9	ENE	2.2	N	
03:00 - 04:00	2.3	NE	1.4	SSW	2.6	WSW	
04:00 - 05:00	1.4	NE	1.6	SE	2.4	WSW	
05:00 - 06:00	1.3	ESE	1.5	S	2.8	ENE	
06:00 - 07:00	2.3	SSW	2.2	NE	2.1	N	
07:00 - 08:00	2.4	SW	2.7	NE	1.1	NE	
08:00 - 09:00	2.7	SW	2.0	SSW	1.4	NE	
09:00 - 10:00	1.7	NNE	2.0	E	2.3	ESE	
10:00 - 11:00	1.7	NE	2.7	SW	2.2	SSW	
11:00 - 12:00	2.1	SW	2.6	S	3.0	SSW	
12:00 - 13:00	2.2	SSW	2.2	E	3.2	S	
13:00 - 14:00	2.8	ESE	2.6	SE	3.2	SSE	
14:00 - 15:00	2.3	SSE	1.5	SSE	2.1	SSW	
15:00 - 16:00	1.9	N	1.7	WSW	2.8	SSW	
16:00 - 17:00	1.7	SW	1.3	S	2.5	S	
Wind Rose							



WIND SPEED (m/s) - Scale 1:3

File Control :R:\Database\Windrose\FileControl\Win-223097-Ban Nurnpayom 20-27 Nov 2023

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC5

Location : Ban Bon

Monitor period : 20-27 Nov 2023

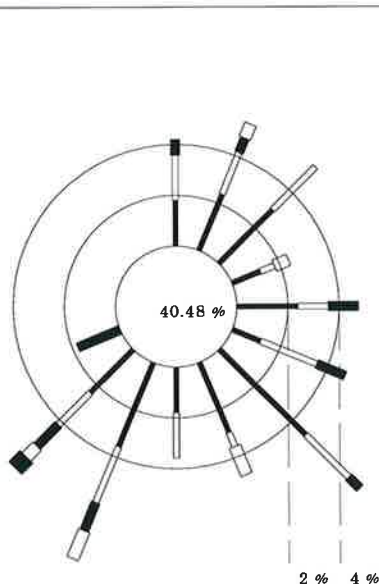
Wind Speed Model : NRG Symphonie

Serial No : A5092

Wind Direction Model : NRG Symphonie

Serial No : A5092

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0179	0.0179	0.0060	0.0000	0.0000	0.0000	0.0417
NNE	0.0238	0.0179	0.0060	0.0060	0.0000	0.0000	0.0536
NE	0.0298	0.0238	0.0000	0.0000	0.0000	0.0000	0.0536
ENE	0.0119	0.0060	0.0000	0.0060	0.0000	0.0000	0.0238
E	0.0238	0.0119	0.0119	0.0000	0.0000	0.0000	0.0476
ESE	0.0119	0.0238	0.0119	0.0000	0.0000	0.0000	0.0476
SE	0.0476	0.0238	0.0060	0.0000	0.0000	0.0000	0.0774
SSE	0.0298	0.0060	0.0000	0.0119	0.0000	0.0000	0.0476
S	0.0179	0.0179	0.0000	0.0000	0.0000	0.0000	0.0357
SSW	0.0357	0.0238	0.0119	0.0119	0.0000	0.0000	0.0833
SW	0.0238	0.0179	0.0119	0.0060	0.0060	0.0000	0.0655
WSW	0.0000	0.0000	0.0179	0.0000	0.0000	0.0000	0.0179
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.4048						



Application : WindPro Ver.1.0

Control : 16 Direction Calculation With  
Calm Wind < 0.5 m/sData Unit : Direction in Deg.  
Wind Speed in m/sNOTE : Frequencies indicate direction from which  
the wind is blowing

File Control : R:\Database\Windrose\FileControl\Win-223097-Ban Bon 20-27 Nov 2023

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC5

Location : Ban Bon

Monitor period : 20-27 Nov 2023

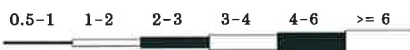
Wind Speed Model : NRG Symphonie

Serial No : A5092

Wind Direction Model : NRG Symphonie

Serial No : A5092

Time	20-21 Nov 2023		21-22 Nov 2023		22-23 Nov 2023		23-24 Nov 2023	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
16:00 - 17:00	0.4	NE	0.6	NNE	0.9	ENE	0.0	ENE
17:00 - 18:00	0.5	SSE	0.9	SSW	0.5	SW	0.0	ESE
18:00 - 19:00	0.0	WSW	0.0	ENE	0.2	ENE	0.0	SSE
19:00 - 20:00	0.0	NNE	0.3	ENE	0.0	ESE	0.0	SSW
20:00 - 21:00	0.6	NE	0.8	NE	0.0	NNE	0.2	E
21:00 - 22:00	0.3	NE	0.6	N	0.0	SSW	0.0	NNE
22:00 - 23:00	0.5	S	0.1	S	0.6	SSW	0.4	S
23:00 - 24:00	0.4	SE	0.3	SSE	0.0	WSW	0.0	SW
00:00 - 01:00	1.2	SE	0.0	NE	0.0	N	0.0	NNE
01:00 - 02:00	1.8	N	0.0	ESE	0.2	S	0.0	NNE
02:00 - 03:00	2.0	SSW	0.2	SE	0.0	SSW	0.2	ESE
03:00 - 04:00	0.6	ESE	0.6	N	1.7	SW	0.9	SE
04:00 - 05:00	0.7	E	0.7	E	0.2	WSW	0.8	SSE
05:00 - 06:00	0.5	SSE	0.1	WSW	2.1	E	0.5	SW
06:00 - 07:00	1.3	N	0.0	S	0.0	SSE	0.0	E
07:00 - 08:00	0.9	SE	0.9	S	0.4	ENE	2.5	SW
08:00 - 09:00	1.7	S	0.5	NE	0.0	SSE	0.7	S
09:00 - 10:00	0.0	ESE	3.0	SSE	0.8	NNE	1.1	NNE
10:00 - 11:00	1.6	NE	1.2	N	1.4	ESE	0.7	E
11:00 - 12:00	2.5	SE	1.5	SW	1.2	NNE	0.8	SSE
12:00 - 13:00	1.8	SE	0.0	SSE	1.4	SSW	3.4	ENE
13:00 - 14:00	0.0	NE	0.5	E	2.3	ESE	2.0	WSW
14:00 - 15:00	0.6	SE	1.3	ESE	0.5	SE	1.6	E
15:00 - 16:00	1.7	SW	2.0	SW	1.9	NE	0.2	SSW
Wind Rose								



WIND SPEED (m/s) - Scale 1:3

File Control :R:\Database\Windrose\FileControl\Win-223097-Ban Bon 20-27 Nov 2023

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC5

Location : Ban Bon

Monitor period : 20-27 Nov 2023

Wind Speed Model : NRG Symphonie

Serial No : A5092

Wind Direction Model : NRG Symphonie

Serial No : A5092

Time	24-25 Nov 2023		25-26 Nov 2023		26-27 Nov 2023		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
16:00 - 17:00	1.4	SE	0.0	NNE	1.6	E	
17:00 - 18:00	0.2	SE	0.0	SSW	0.3	SE	
18:00 - 19:00	0.0	WSW	0.4	SE	0.5	SSW	
19:00 - 20:00	0.0	SSE	0.9	SSE	0.0	ENE	
20:00 - 21:00	0.0	NNE	0.5	SW	0.0	SSE	
21:00 - 22:00	0.0	ENE	0.0	N	0.0	SW	
22:00 - 23:00	0.0	WSW	0.5	SW	0.0	SSW	
23:00 - 24:00	0.2	ENE	0.0	ENE	1.9	ESE	
00:00 - 01:00	0.7	NNE	0.0	NE	0.9	NNE	
01:00 - 02:00	0.7	NE	1.0	NE	0.0	E	
02:00 - 03:00	2.0	ESE	0.0	SE	1.1	ESE	
03:00 - 04:00	1.2	SE	0.6	SSW	0.6	SE	
04:00 - 05:00	0.7	SSW	0.8	SE	0.9	ENE	
05:00 - 06:00	0.8	N	0.0	SW	1.7	SSW	
06:00 - 07:00	0.7	SE	0.4	ENE	2.9	E	
07:00 - 08:00	0.4	ENE	1.0	ENE	1.1	S	
08:00 - 09:00	1.3	NNE	2.3	NNE	3.2	SSW	
09:00 - 10:00	1.4	SSW	2.0	N	3.3	NNE	
10:00 - 11:00	0.5	ESE	2.7	SSW	0.9	SE	
11:00 - 12:00	2.4	WSW	1.0	NE	0.0	E	
12:00 - 13:00	0.0	SW	3.2	SW	3.4	SSE	
13:00 - 14:00	0.0	WSW	1.0	SSW	2.0	WSW	
14:00 - 15:00	4.6	SW	3.3	SSW	1.9	SSE	
15:00 - 16:00	0.8	SSW	0.9	NE	1.8	S	
Wind Rose							



WIND SPEED (m/s) - Scale 1:3

File Control :R:\Database\Windrose\FileControl\Win-223097-Ban Bon 20-27 Nov 2023

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team





## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC5

Location : Ban Mabya

Monitor period : 20-27 Nov 2023

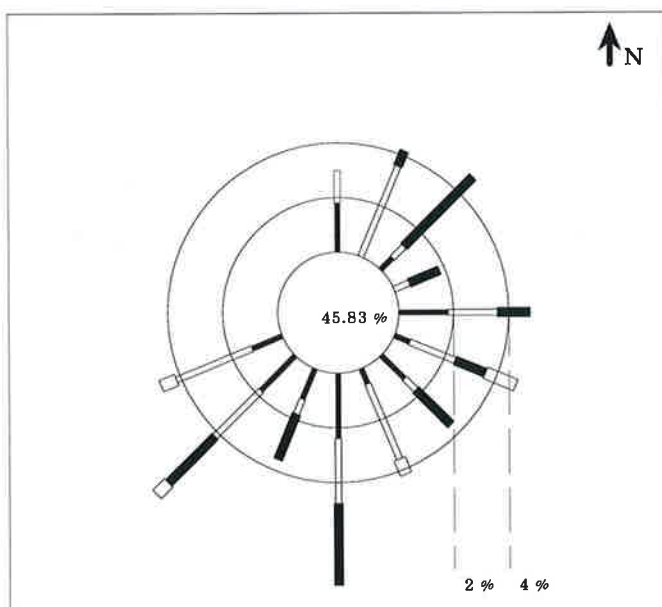
Wind Speed Model : NRG Symphonie

Serial No : A4904

Wind Direction Model : NRG Symphonie

Serial No : A4904

Direction	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						Total
	0.5-1 m/s	1-2 m/s	2-3 m/s	3-4 m/s	4-6 m/s	More than 6	
N	0.0179	0.0119	0.0000	0.0000	0.0000	0.0000	0.0298
NNE	0.0000	0.0357	0.0060	0.0000	0.0000	0.0000	0.0417
NE	0.0060	0.0060	0.0357	0.0000	0.0000	0.0000	0.0476
ENE	0.0000	0.0060	0.0119	0.0000	0.0000	0.0000	0.0179
E	0.0179	0.0179	0.0119	0.0000	0.0000	0.0000	0.0476
ESE	0.0060	0.0179	0.0119	0.0119	0.0000	0.0000	0.0476
SE	0.0119	0.0060	0.0179	0.0000	0.0000	0.0000	0.0357
SSE	0.0060	0.0298	0.0000	0.0060	0.0000	0.0000	0.0417
S	0.0238	0.0238	0.0298	0.0000	0.0000	0.0000	0.0774
SSW	0.0119	0.0060	0.0179	0.0000	0.0000	0.0000	0.0357
SW	0.0179	0.0238	0.0238	0.0060	0.0000	0.0000	0.0714
WSW	0.0119	0.0298	0.0000	0.0060	0.0000	0.0000	0.0476
W	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
WNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NNW	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CALM	0.4583						



Application : WindPro Ver.1.0

Control : 16 Direction Calculation With  
Calm Wind < 0.5 m/sData Unit : Direction in Deg.  
Wind Speed in m/sNOTE : Frequencies indicate direction from which  
the wind is blowing

File Control : R:\Database\Windrose\FileControl\Win-223097-Ban Mabya 20-27 Nov 2023

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team





## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC5

Location : Ban Mabya

Monitor period : 20-27 Nov 2023

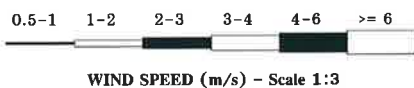
Wind Speed Model : NRG Symphonic

Serial No : A4904

Wind Direction Model : NRG Symphonic

Serial No : A4904

Time	20-21 Nov 2023		21-22 Nov 2023		22-23 Nov 2023		23-24 Nov 2023	
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD
16:00 - 17:00	0.7	WSW	0.0	WSW	2.4	SSW	0.0	E
17:00 - 18:00	0.0	SE	0.0	S	1.3	ESE	0.0	S
18:00 - 19:00	0.0	SSW	0.0	NNE	0.0	ENE	0.0	SSW
19:00 - 20:00	0.0	S	0.0	ENE	0.0	SSE	0.0	SSW
20:00 - 21:00	1.8	NNE	0.0	S	0.0	ESE	0.0	ESE
21:00 - 22:00	0.9	S	0.0	WSW	0.0	SSE	0.4	NE
22:00 - 23:00	1.1	WSW	1.4	NNE	0.0	SSE	0.0	SE
23:00 - 24:00	1.9	WSW	0.7	S	0.0	ENE	0.9	N
00:00 - 01:00	1.4	E	0.0	S	0.0	SW	0.0	ESE
01:00 - 02:00	1.5	SSE	0.0	SW	0.0	NNE	0.8	E
02:00 - 03:00	2.3	ESE	0.0	SSW	0.0	NNE	0.0	WSW
03:00 - 04:00	2.8	E	1.6	SSE	0.9	N	0.0	NNE
04:00 - 05:00	1.8	SW	2.5	S	0.0	E	1.4	WSW
05:00 - 06:00	2.5	SE	1.0	SW	1.2	S	0.9	NE
06:00 - 07:00	2.0	ESE	0.9	SE	0.0	S	2.8	NE
07:00 - 08:00	2.6	NE	1.0	WSW	1.8	SE	1.0	S
08:00 - 09:00	1.7	SW	0.9	SW	0.0	E	1.2	N
09:00 - 10:00	0.0	E	1.6	N	0.0	SE	0.8	WSW
10:00 - 11:00	0.0	WSW	0.3	NE	1.0	ESE	1.8	WSW
11:00 - 12:00	1.0	S	0.0	ENE	2.7	SSW	3.3	SW
12:00 - 13:00	0.0	SE	0.0	SE	0.0	SW	0.0	SSE
13:00 - 14:00	2.2	S	0.0	ENE	0.0	NE	0.6	SSW
14:00 - 15:00	0.0	S	1.6	NNE	1.5	E	1.6	SW
15:00 - 16:00	0.0	SSW	0.0	SE	0.0	SW	0.0	NNE
Wind Rose								



File Control :R:\Database\Windrose\FileControl\Win-223097-Ban Mabya 20-27 Nov 2023

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Meteorological Monitoring Results : Wind Rose

### MTR-PTTGC5

Location : Ban Mabya

Monitor period : 20-27 Nov 2023

Wind Speed Model : NRG Symphonie

Serial No : A4904

Wind Direction Model : NRG Symphonie

Serial No : A4904

Time	24-25 Nov 2023		25-26 Nov 2023		26-27 Nov 2023		
	WS(m/s)	WD	WS(m/s)	WD	WS(m/s)	WD	
16:00 - 17:00	0.0	E	0.6	SW	1.4	NNE	
17:00 - 18:00	0.0	NE	0.0	E	0.0	WSW	
18:00 - 19:00	0.0	S	0.0	E	0.0	WSW	
19:00 - 20:00	0.0	ENE	2.1	NE	0.0	SW	
20:00 - 21:00	0.0	NE	0.0	SSW	0.0	SE	
21:00 - 22:00	0.0	E	0.1	SW	0.0	E	
22:00 - 23:00	0.0	ENE	1.4	SSW	0.8	S	
23:00 - 24:00	0.0	E	2.1	NE	2.5	S	
00:00 - 01:00	2.2	SE	2.1	ENE	2.1	SW	
01:00 - 02:00	1.5	NNE	0.8	SW	3.2	ESE	
02:00 - 03:00	2.6	NE	2.0	NNE	0.3	ENE	
03:00 - 04:00	2.9	E	2.9	S	2.2	SW	
04:00 - 05:00	0.8	E	2.9	NE	1.2	SSE	
05:00 - 06:00	0.0	S	2.9	SW	0.1	SW	
06:00 - 07:00	2.2	S	0.0	NE	0.6	N	
07:00 - 08:00	2.8	SE	0.0	SE	1.0	SSE	
08:00 - 09:00	2.8	SW	0.0	WSW	3.3	WSW	
09:00 - 10:00	1.4	SSE	1.3	NE	0.0	ESE	
10:00 - 11:00	2.9	SSW	0.4	WSW	0.6	S	
11:00 - 12:00	1.2	NNE	1.2	ESE	2.5	ENE	
12:00 - 13:00	0.6	SSW	0.5	E	0.5	ESE	
13:00 - 14:00	1.6	ENE	0.0	WSW	3.1	ESE	
14:00 - 15:00	0.7	SE	1.3	E	0.0	SSW	
15:00 - 16:00	0.6	SSE	1.2	S	3.1	SSE	
Wind Rose							



WIND SPEED (m/s) - Scale 1:3

File Control :R:\Database\Windrose\FileControl\Win-223097-Ban Mabya 20-27 Nov 2023

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID** : 2370605

Date Received : Jul 04, 2023

Date Reported : Jul 12, 2023

Report Number : 2688807-1

Page 1 of 2

**Sample Number** : 2370605-3  
**Parameter** : Wind Speed / Wind Direction  
**Location** : PTTGC (พิกัด 47P 0735154E, 1410700N)  
**Sampling Date** : Jul 03 - Jul 04, 2023  
**Sampling by** : Anurak Tongkhajonsakda

Time	Jul 03 - Jul 04, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
11:00 AM - 12:00 PM	1.7	248.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.5	228.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.0	208.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.9	137.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.2	231.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.4	207.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.3	275.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.0	49.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	2.1	219.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.6	204.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.0	187.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.9	211.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.1	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.6	233.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.7	188.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.0	134.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.6	327.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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

Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID** : 2384942

Date Received : Aug 04, 2023

Date Reported : Aug 11, 2023

Report Number : 2723847-1

Page 1 of 2

**Sample Number** : 2384942-3  
**Parameter** : Wind Speed / Wind Direction  
**Location** : PTTGC (พื้ด 47P 0735154E , 1410700N)  
**Sampling Date** : Aug 03 - Aug 04, 2023  
**Sampling by** : Anurak Tongkhajonsakda

Time	Aug 03 - Aug 04, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
10:00 AM - 11:00 AM	4.6	181.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	4.4	169.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	6.7	165.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	4.5	162.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.9	226.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	2.3	149.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.2	178.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.3	130.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	3.7	197.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.3	193.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	2.0	209.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.1	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	2.6	188.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.3	274.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.6	219.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.2	166.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.5	170.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 2396491**

Date Received : Sep 05, 2023

Date Reported : Sep 12, 2023

Report Number : 2748462-1

Page 1 of 2

**Sample Number** 2396491-3  
**Parameter** Wind Speed / Wind Direction  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Sampling Date** Sep 04 - Sep 05, 2023  
**Sampling by** Satcha Phetsawaeng

Time	Sep 04 - Sep 05, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
10:00 AM - 11:00 AM	2.7	222.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.5	249.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.5	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.3	152.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.9	255.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.0	294.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.1	319.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.4	186.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.3	293.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.4	279.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.4	321.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.0	287.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.3	322.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.5	348.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.5	287.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.9	350.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.1	270.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	2.4	325.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.3	236.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 23111070**

Date Received : Oct 03, 2023

Date Reported : Oct 10, 2023

Report Number : 2785710-1

Page 1 of 2

**Sample Number** 23111070-3  
**Parameter** Wind Speed / Wind Direction  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Sampling Date** Oct 02 - Oct 03, 2023  
**Sampling by** Anurak Tongkhajonsakda

Time	Oct 02 - Oct 03, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.3	287.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.4	290.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.3	274.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.6	208.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.4	69.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.8	2.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.4	294.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.3	187.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.4	275.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.6	320.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.4	309.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.6	286.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.3	321.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 23123808**

Date Received :Nov 02, 2023

Date Reported :Nov 07, 2023

Report Number :2815310-1

Page 1 of 2

**Sample Number** 23123808-3  
**Parameter** Wind Speed / Wind Direction  
**Location** PTTGC (พิกัด 47P 0735154E, 1410700N)  
**Sampling Date** Nov 01 - Nov 02, 2023  
**Sampling by** Anurak Tongkhajonsakda

Time	Nov 01 - Nov 02, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
10:00 AM - 11:00 AM	1.9	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.4	357.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.4	143.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.1	347.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.9	358.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.9	203.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.8	292.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.5	262.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.6	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.5	338.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	2.0	339.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	2.5	338.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.3	4.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.9	358.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.6	320.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	2.2	357.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	2.2	357.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	2.5	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.3	357.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	2.3	357.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	2.5	334.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.9	347.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.6	303.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.4	330.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 23129678**

Date Received :Dec 07, 2023

Date Reported :Dec 15, 2023

Report Number :2827036-1

Page 1 of 2

**Sample Number** 23129678-3  
**Parameter** Wind Speed / Wind Direction  
**Location** PTTGC (พิกัด 47P 0735154E, 1410700N)  
**Sampling Date** Dec 06 - Dec 07, 2023  
**Sampling by** Anurak Tongkhajonsakda

Time	Dec 06 - Dec 07, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
09:00 AM - 10:00 AM	0.4	24.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.1	53.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.7	26.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.2	24.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.8	45.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.6	28.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.4	110.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.6	54.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.0	45.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.8	41.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.5	58.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.7	141.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.6	157.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.4	175.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.4	42.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.5	76.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager





## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID** : 2370600

Date Received : Jul 04, 2023

Date Reported : Jul 12, 2023

Report Number : 2688803-1

Page 1 of 2

**Sample Number** : 2370600-1  
**Parameter** : Wind Speed / Wind Direction  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Sampling Date** : Jul 03 - Jul 04, 2023  
**Sampling by** : Anurak Tongkhajonsakda

Time	Jul 03 - Jul 04, 2023		-		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.7	128.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	2.0	305.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.4	262.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.7	240.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.6	272.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.5	228.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.4	319.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.4	305.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.7	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.6	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.5	164.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.3	332.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.6	114.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.7	113.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.5	184.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.6	203.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.4	196.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID** : 2384940

Date Received : Aug 04, 2023

Date Reported : Aug 11, 2023

Report Number : 2723844-1

Page 1 of 2

**Sample Number** : 2384940-1  
**Parameter** : Wind Speed / Wind Direction  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Sampling Date** : Aug 03 - Aug 04, 2023  
**Sampling by** : Anurak Tongkhajonsakda

Time	Aug 03 - Aug 04, 2023		-		-		-		-		-		-		-		-	
	WS (m/s)	WD (deg)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.9	236.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.2	190.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.1	141.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.9	304.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.5	183.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.4	180.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.6	165.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.3	218.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.7	196.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.8	189.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.6	259.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.4	177.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.0	217.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.5	193.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	2.2	223.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.9	195.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	3.0	177.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	2.1	170.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	2.4	173.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 2396490**

Date Received : Sep 05, 2023

Date Reported : Sep 12, 2023

Report Number : 2748461-1

Page 1 of 2

**Sample Number** 2396490-1  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Sampling Date** Sep 04 - Sep 05, 2023  
**Sampling by** Satcha Phetsawaeng

Time	Sep 04 - Sep 05, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
11:00 AM - 12:00 PM	2.0	217.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.3	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.2	226.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.2	226.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	3.1	239.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.4	252.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.4	228.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.4	237.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.6	221.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.8	236.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.0	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.1	242.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.3	218.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.5	328.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.6	158.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.7	243.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.6	213.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.6	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.6	242.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.9	237.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.4	236.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 23111068**

Date Received :Oct 03, 2023

Date Reported :Oct 10, 2023

Report Number :2785707-1

Page 1 of 2

**Sample Number** 23111068-1  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Sampling Date** Oct 02 - Oct 03, 2023  
**Sampling by** Anurak Tongkhajonsakda

Time	Oct 02 - Oct 03, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.4	62.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.5	236.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.4	148.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.6	164.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.3	251.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.4	235.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.3	119.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.3	288.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.3	289.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.6	54.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.9	33.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.5	344.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 23123806**

Date Received :Nov 02, 2023

Date Reported :Nov 07, 2023

Report Number :2815309-1

Page 1 of 2

**Sample Number** 23123806-1  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Sampling Date** Nov 01 - Nov 02, 2023  
**Sampling by** Anurak Tongkhajonsakda

Time	Nov 01 - Nov 02, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
11:00 AM - 12:00 PM	0.8	50.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.2	51.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.3	52.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.5	50.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.6	71.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.8	72.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.6	70.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.4	238.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.5	238.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	2.3	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.4	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.6	261.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.4	262.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.6	320.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.4	321.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.8	324.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.9	12.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.4	13.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.5	345.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.4	345.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.6	346.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.4	18.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.5	10.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.9	12.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 23129675**

Date Received :Dec 07, 2023

Date Reported :Dec 15, 2023

Report Number :2827031-1

Page 1 of 2

**Sample Number** 23129675-1  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Sampling Date** Dec 06 - Dec 07, 2023  
**Sampling by** Anurak Tongkhajonsakda

Time	Dec 06 - Dec 07, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
10:00 AM - 11:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	2.7	57.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.0	208.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.3	243.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.6	243.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.3	350.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.4	35.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	2.1	45.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.5	46.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.0	48.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.9	356.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.0	35.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID** : 2370598

Date Received : Jul 04, 2023

Date Reported : Jul 12, 2023

Report Number : 2688800-1

Page 1 of 2

**Sample Number** : 2370598-1  
**Parameter** : Wind Speed / Wind Direction  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Sampling Date** : Jul 03 - Jul 04, 2023  
**Sampling by** : Anurak Tongkhajonsakda

Time	Jul 03 - Jul 04, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.3	292.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.3	301.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.4	296.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.1	268.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.9	272.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.8	27.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.0	53.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	2.7	147.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.0	140.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.4	289.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.9	324.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.5	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.0	90.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.0	92.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID** : 2384939

Date Received : Aug 04, 2023

Date Reported : Aug 11, 2023

Report Number : 2723841-1

Page 1 of 2

**Sample Number** : 2384939-1  
**Parameter** : Wind Speed / Wind Direction  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Sampling Date** : Aug 03 - Aug 04, 2023  
**Sampling by** : Anurak Tongkhajonsakda

Time	Aug 03 - Aug 04, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.1	199.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	2.7	182.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.3	207.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	3.0	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.0	227.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	2.7	211.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.6	212.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.5	206.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.7	143.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.4	242.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	3.3	168.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	3.9	208.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	3.8	193.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.9	173.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.8	197.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	3.0	204.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	2.1	146.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	2.1	224.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	2.0	198.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.3	132.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	3.2	211.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	2.7	188.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.2	190.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont  
Assistant General Manager





## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 2396488**

Date Received : Sep 05, 2023

Date Reported : Sep 12, 2023

Report Number : 2748459-1

Page 1 of 2

**Sample Number** 2396488-1  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Sampling Date** Sep 04 - Sep 05, 2023  
**Sampling by** Satcha Phetsawaeng

Time	Sep 04 - Sep 05, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	2.8	232.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.9	156.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	3.4	283.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.7	258.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.6	277.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.0	289.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	2.3	221.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.3	215.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.8	127.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	2.4	303.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	2.0	278.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.6	263.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.4	311.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.6	209.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.7	213.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.6	222.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.4	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.5	259.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.3	106.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.4	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	2.3	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	3.1	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 23111065**

Date Received : Oct 03, 2023

Date Reported : Oct 10, 2023

Report Number : 2785705-1

Page 1 of 2

**Sample Number** 23111065-1  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Sampling Date** Oct 02 - Oct 03, 2023  
**Sampling by** Anurak Tongkhajonsakda

Time	Oct 02 - Oct 03, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.2	217.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.9	33.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.1	53.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.5	12.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.5	69.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.9	24.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.6	48.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.0	49.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	2.5	231.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.2	184.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.1	16.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.5	110.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.3	131.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.2	84.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.5	208.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 23123804**

Date Received :Nov 02, 2023

Date Reported :Nov 07, 2023

Report Number :2815304-1

Page 1 of 2

**Sample Number** 23123804-1  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E, 1408966N)  
**Sampling Date** Nov 01 - Nov 02, 2023  
**Sampling by** Anurak Tongkhajonsakda

Time	Nov 01 - Nov 02, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.4	58.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.0	60.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.9	52.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.2	60.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.1	65.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.9	70.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.5	236.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.6	234.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.4	237.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	1.2	261.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.4	262.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.3	312.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.5	342.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.6	315.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.4	318.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.5	336.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.0	355.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.0	16.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.6	335.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.8	342.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.2	336.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.6	340.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.4	16.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.0	20.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 23129673**

Date Received :Dec 07, 2023

Date Reported :Dec 15, 2023

Report Number :2827029-1

Page 1 of 2

**Sample Number** 23129673-1  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E, 1408966N)  
**Sampling Date** Dec 06 - Dec 07, 2023  
**Sampling by** Anurak Tongkhajonsakda

Time	Dec 06 - Dec 07, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	2.2	71.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.0	117.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.7	208.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.0	227.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	3.2	241.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.8	284.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.3	250.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.0	287.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.8	330.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.4	310.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.7	11.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.0	39.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.5	27.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.0	39.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID** : 2370596

Date Received : Jul 04, 2023

Date Reported : Jul 12, 2023

Report Number : 2688798-1

Page 1 of 2

**Sample Number** : 2370596-1  
**Parameter** : Wind Speed / Wind Direction  
**Location** : ชุมชนนาบยา (พิกัด 47P 0735680E, 1408469N)  
**Sampling Date** : Jul 03 - Jul 04, 2023  
**Sampling by** : Anurak Tongkhajonsakda

Time	Jul 03 - Jul 04, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	5.2	261.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	3.7	276.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	3.9	275.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.1	273.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.6	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.2	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.4	269.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.2	262.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.8	307.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.2	282.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.6	184.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.8	145.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.8	123.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID** : 2384938

Date Received : Aug 04, 2023

Date Reported : Aug 11, 2023

Report Number : 2723840-1

Page 1 of 2

**Sample Number** : 2384938-1  
**Parameter** : Wind Speed / Wind Direction  
**Location** : ชุมชนมาบตา (พิกัด 47P 0735680E, 1408469N)  
**Sampling Date** : Aug 03 - Aug 04, 2023  
**Sampling by** : Anurak Tongkhajonsakda

Time	Aug 03 - Aug 04, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	5.1	252.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.3	229.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	3.1	264.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.2	267.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.6	243.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.1	189.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	2.5	197.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	2.8	246.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.6	220.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.2	247.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.9	222.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.9	258.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	2.5	241.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.6	231.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	3.4	220.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	2.2	274.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.5	226.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	1.6	217.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	3.1	216.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.9	347.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.2	252.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.1	250.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.3	253.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.1	250.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 2396487**

Date Received : Sep 05, 2023

Date Reported : Sep 12, 2023

Report Number : 2748458-1

Page 1 of 2

**Sample Number** 2396487-1  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนนาบยา (พิกัด 47P 0735680E, 1408469N)  
**Sampling Date** Sep 04 - Sep 05, 2023  
**Sampling by** Satcha Phetsawaeng

Time	Sep 04 - Sep 05, 2023			-		-			-				-				-			
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	2.4	207.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.6	321.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	2.0	273.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.7	347.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	2.3	255.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.9	291.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	2.9	150.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	2.5	260.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.8	273.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.9	245.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.9	287.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.3	183.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.6	171.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.6	237.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.6	247.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.2	230.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.4	173.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.4	244.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.8	236.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.6	265.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	3.2	242.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	2.5	245.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 23111062**

Date Received :Oct 03, 2023

Date Reported :Oct 10, 2023

Report Number :2785702-1

Page 1 of 2

**Sample Number** 23111062-1  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนนาบยา (พิกัด 47P 0735680E, 1408469N)  
**Sampling Date** Oct 02 - Oct 03, 2023  
**Sampling by** Anurak Tongkhajonsakda

Time	Oct 02 - Oct 03, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.6	177.0	S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.3	165.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	2.0	156.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.6	125.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.8	123.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	1.2	254.0	WSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	1.5	230.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	1.0	201.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.9	204.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	1.2	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	1.9	221.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	1.0	222.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	1.1	225.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.0	343.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.8	359.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.5	20.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	1.6	230.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	1.7	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	1.0	217.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.6	291.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.4	332.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.8	294.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	0.7	277.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	0.6	297.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittranont  
Assistant General Manager





## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 23123803**

Date Received : Nov 02, 2023

Date Reported : Nov 07, 2023

Report Number : 2815303-1

Page 1 of 2

**Sample Number** 23123803-1  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนนาบยา (พิกัด 47P 0735680E, 1408469N)  
**Sampling Date** Nov 01 - Nov 02, 2023  
**Sampling by** Anurak Tongkhajonsakda

Time	Nov 01 - Nov 02, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
09:00 AM - 10:00 AM	1.7	53.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 AM - 11:00 AM	1.8	68.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	1.2	57.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	1.0	51.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	1.3	56.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	1.5	64.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	1.0	57.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.3	235.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.3	273.0	W	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.4	310.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.5	340.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.9	313.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	0.9	320.0	NW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	0.7	334.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	0.9	357.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.7	14.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.3	331.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.7	341.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.4	334.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	0.6	339.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	0.6	12.0	NNE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont  
Assistant General Manager



## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.

88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000

**P/O** : PMM-23-22

**Project Name** : EIA Monitoring

**Project Location** :

**Lot ID: 23129672**

Date Received :Dec 07, 2023

Date Reported :Dec 15, 2023

Report Number :2827025-1

Page 1 of 2

**Sample Number** 23129672-1  
**Parameter** Wind Speed / Wind Direction  
**Location** ชุมชนนาบยา (พิกัด 47P 0735680E, 1408469N)  
**Sampling Date** Dec 06 - Dec 07, 2023  
**Sampling by** Anurak Tongkhajonsakda

Time	Dec 06 - Dec 07, 2023			-			-			-			-			-			-		
	WS (m/s)	WD (deg)		-	-		-	-		-	-		-	-		-	-		-	-	
10:00 AM - 11:00 AM	1.4	49.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM - 12:00 PM	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 PM - 01:00 PM	0.5	137.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 PM - 02:00 PM	0.9	74.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 PM - 03:00 PM	0.5	104.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 PM - 04:00 PM	0.3	110.0	ESE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 PM - 05:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 PM - 06:00 PM	0.3	76.0	ENE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 PM - 07:00 PM	0.5	152.0	SSE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 PM - 08:00 PM	0.3	211.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 PM - 09:00 PM	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 PM - 10:00 PM	0.3	212.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10:00 PM - 11:00 PM	0.5	213.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 PM - 12:00 AM	0.7	214.0	SW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12:00 AM - 01:00 AM	1.1	213.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
01:00 AM - 02:00 AM	1.7	213.0	SSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
02:00 AM - 03:00 AM	1.5	94.0	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
03:00 AM - 04:00 AM	0.5	136.0	SE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
04:00 AM - 05:00 AM	0.4	9.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
05:00 AM - 06:00 AM	0.7	341.0	NNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
06:00 AM - 07:00 AM	0.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
07:00 AM - 08:00 AM	1.3	37.0	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
08:00 AM - 09:00 AM	1.5	302.0	WNW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
09:00 AM - 10:00 AM	1.3	357.0	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Sarayuth Jittranont  
Assistant General Manager



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

## AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd. (Branch 5 : Aromatics 2 Plant)	REFERENCE NO.	: 223097/MON2H/Amb/Nov
MEASUREMENT BY	: SECOT Co., Ltd.	SAMPLING DATE	: 20-27/11/2023
RECEIVED DATE	: 11/12/2023	ANALYTICAL DATE	: 11-13/12/2023
REPORT DATE	: 14/12/2023	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Phuwadech Kaewjirakulsri	LOCATION DESCRIPTION	: Ban Numpayom

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	20-21/11/2023	mg/cu.m.	0.071	0.120	High Volume
	21-22/11/2023	mg/cu.m.	0.054		Air Sampler
	22-23/11/2023	mg/cu.m.	0.057		(Hi-Vol PM-10
	23-24/11/2023	mg/cu.m.	0.050		Size Selective Inlet)/
	24-25/11/2023	mg/cu.m.	0.039		Gravimetric Method
	25-26/11/2023	mg/cu.m.	0.054		
	26-27/11/2023	mg/cu.m.	0.028		

Phatchara Samanchan

(Miss Phatchara Samanchan)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

**Remark** : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. \* Notification of the National Environment Board, No.24, B.E.2547 (2004).



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SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

### AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd. (Branch 5 : Aromatics 2 Plant)	REFERENCE NO.	: 223097/MON2H/Amb/Nov
MEASUREMENT BY	: SECOT Co., Ltd.	SAMPLING DATE	: 20-27/11/2023
RECEIVED DATE	: 11/12/2023	ANALYTICAL DATE	: 11-13/12/2023
REPORT DATE	: 14/12/2023	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Phuwadech Kaewjirakulsri	LOCATION DESCRIPTION	: Ban Bon

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	20-21/11/2023	mg/cu.m.	0.060	0.120	High Volume
	21-22/11/2023	mg/cu.m.	0.031		Air Sampler
	22-23/11/2023	mg/cu.m.	0.028		(Hi-Vol PM-10
	23-24/11/2023	mg/cu.m.	0.035		Size Selective Inlet)/
	24-25/11/2023	mg/cu.m.	0.041		Gravimetric Method
	25-26/11/2023	mg/cu.m.	0.049		
	26-27/11/2023	mg/cu.m.	0.034		

*Phatchara Samanchan*

(Miss Phatchara Samanchan)

Analyst

*Narisa Poowasanpetch*

(Miss Narisa Poowasanpetch)

Technical Management Team

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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

## AMBIENT AIR QUALITY ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/Amb/Nov
	(Branch 5 : Aromatics 2 Plant)		
MEASUREMENT BY	: SECOT Co., Ltd.	SAMPLING DATE	: 20-27/11/2023
RECEIVED DATE	: 11/12/2023	ANALYTICAL DATE	: 11-13/12/2023
REPORT DATE	: 14/12/2023	SAMPLE CONDITION	: Good
SITE OPERATOR	: Mr. Phuwadech Kaewjirakulsri	LOCATION DESCRIPTION	: Ban Mabya

PARAMETER	SAMPLING DATE	UNIT	RESULT	STANDARD*	REFERENCE METHOD
PM-10 (24 hr)	20-21/11/2023	mg/cu.m.	0.056	0.120	High Volume
	21-22/11/2023	mg/cu.m.	0.047		Air Sampler
	22-23/11/2023	mg/cu.m.	0.048		(Hi-Vol PM-10
	23-24/11/2023	mg/cu.m.	0.038		Size Selective Inlet)/
	24-25/11/2023	mg/cu.m.	0.033		Gravimetric Method
	25-26/11/2023	mg/cu.m.	0.038		
	26-27/11/2023	mg/cu.m.	0.018		

*Phatchara Samanchon*

(Miss Phatchara Samanchan)

Analyst

*Narisa Poowasanpetch*

(Miss Narisa Poowasanpetch)

Technical Management Team

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## Ambient Air Monitoring Results : Sulfur dioxide MTR-PTTGC5

Location : Ban Numpayom

Monitor Period : 20-27 Nov 2023

Analyzer Model : API 100E

Station No : SCT-16

Serial No : 069

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : Teledyne 700E

Serial No : 587

Calibration Gas Cylinder I.D.: EB0108319

Certified Date : 09 Jan 2023

Cal Concentration (ppb) : 0,100,200,400

Expire Date : 08 Jan 2024

Time	SO2 Concentration (ppb)						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
17:00 - 18:00	8.7	2.3	2.2	1.1	3.1	3.3	2.0
18:00 - 19:00	3.8	1.6	3.6	1.8	3.2	1.9	2.6
19:00 - 20:00	4.7	1.7	3.0	3.3	2.4	1.5	2.6
20:00 - 21:00	4.2	1.2	2.5	4.5	2.3	2.2	2.1
21:00 - 22:00	1.4	2.3	1.7	3.8	2.0	1.9	3.4
22:00 - 23:00	1.4	0.7	2.2	3.4	1.4	3.3	3.5
23:00 - 00:00	1.1	3.2	1.9	2.8	1.0	1.7	2.7
00:00 - 01:00	2.1	0.9	2.4	1.9	2.3	1.9	1.5
01:00 - 02:00	2.5	2.0	2.2	2.1	2.0	1.6	1.6
02:00 - 03:00	1.3	1.3	2.3	2.3	2.5	1.9	1.8
03:00 - 04:00	1.4	2.0	2.3	3.6	1.2	1.3	1.8
04:00 - 05:00	2.1	0.3	2.6	2.5	3.4	1.8	1.3
05:00 - 06:00	2.0	0.4	2.8	1.9	1.8	2.4	2.9
06:00 - 07:00	1.4	1.1	1.9	1.6	2.6	1.6	2.7
07:00 - 08:00	1.4	2.0	1.3	2.0	4.5	3.5	3.0
08:00 - 09:00	1.9	0.0	1.0	1.3	3.8	3.7	3.2
09:00 - 10:00	2.1	1.1	1.9	3.1	3.4	1.6	2.8
10:00 - 11:00	2.7	0.1	2.3	2.1	1.0	2.2	3.3
11:00 - 12:00	2.8	0.2	2.5	2.8	2.2	3.5	2.7
12:00 - 13:00	2.3	1.4	2.5	2.3	2.3	2.5	1.2
13:00 - 14:00	1.5	1.9	1.7	3.0	2.6	3.1	3.2
14:00 - 15:00	1.6	2.1	2.5	2.0	1.1	2.8	1.0
15:00 - 16:00	3.1	1.7	1.9	1.0	2.5	3.1	2.4
16:00 - 17:00	2.6	2.0	2.3	2.2	1.4	2.4	1.8
Average-24Hr*	2.5	1.4	2.2	2.4	2.3	2.4	2.4
Max-1Hr	8.7	3.2	3.6	4.5	4.5	3.7	3.5
Min-1Hr	1.1	0.0	1.0	1.0	1.0	1.3	1.0
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : \* Average time between 17:00-17:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Preeda Somjai)  
 Technical Management Team



## Ambient Air Monitoring Results : Sulfur dioxide MTR-PTTGC5

<b>Location :</b> Ban Bon	<b>Monitor Period :</b> 20-27 Nov 2023
<b>Analyzer Model :</b> Teledyne T100	<b>Station No :</b> SCT-17
<b>Serial No :</b> 120	<b>Site Operator :</b> Mr. Phuwadech Kaewjirakulsri

<b>Calibrator Model :</b> Teledyne 700E	<b>Serial No :</b> 587
<b>Calibration Gas Cylinder I.D.:</b> EB0108319	
<b>Certified Date :</b> 09 Jan 2023	<b>Cal Concentration (ppb) :</b> 0,100,200,400
<b>Expire Date :</b> 08 Jan 2024	

Time	SO2 Concentration (ppb)						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
16:00 - 17:00	4.6	1.8	6.3	7.3	3.7	4.5	3.4
17:00 - 18:00	4.7	3.6	3.1	6.5	3.4	3.6	2.4
18:00 - 19:00	3.3	4.7	1.7	8.1	2.9	3.4	2.6
19:00 - 20:00	2.9	1.7	3.3	3.5	3.3	3.7	3.6
20:00 - 21:00	2.8	4.3	2.1	4.2	4.5	4.6	2.9
21:00 - 22:00	2.2	3.6	2.7	2.6	4.5	3.3	4.4
22:00 - 23:00	3.2	2.1	2.8	3.8	4.2	2.4	4.6
23:00 - 00:00	1.4	1.8	1.3	2.4	4.5	4.2	2.7
00:00 - 01:00	1.9	1.6	3.0	3.3	4.0	3.3	4.0
01:00 - 02:00	3.4	2.9	2.6	3.3	3.0	2.8	3.3
02:00 - 03:00	3.0	2.0	2.9	3.6	2.7	2.4	4.9
03:00 - 04:00	2.5	2.4	2.5	2.8	3.4	2.8	2.7
04:00 - 05:00	3.7	1.4	1.9	3.0	6.2	4.4	3.8
05:00 - 06:00	1.5	1.8	1.9	3.1	4.6	3.9	4.8
06:00 - 07:00	3.3	3.1	3.9	1.9	3.1	3.6	3.4
07:00 - 08:00	2.3	3.2	2.2	4.2	4.3	4.9	3.8
08:00 - 09:00	2.0	2.5	2.3	3.4	3.3	4.8	3.1
09:00 - 10:00	2.5	2.0	2.2	3.8	2.9	3.7	3.8
10:00 - 11:00	2.5	1.9	2.5	3.6	1.8	2.9	2.4
11:00 - 12:00	2.7	1.3	3.0	2.5	2.4	3.8	3.1
12:00 - 13:00	4.4	2.9	3.3	2.0	3.3	4.9	3.5
13:00 - 14:00	5.6	2.5	3.9	2.8	3.7	4.5	2.4
14:00 - 15:00	2.5	2.9	3.7	3.0	3.6	2.9	3.9
15:00 - 16:00	4.3	6.9	4.4	4.5	3.4	3.3	2.7
Average-24Hr*	3.1	2.7	2.9	3.7	3.6	3.7	3.4
Max-1Hr	5.6	6.9	6.3	8.1	6.2	4.9	4.9
Min-1Hr	1.4	1.3	1.3	1.9	1.8	2.4	2.4
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : \* Average time between 16:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Ambient Air Monitoring Results : Sulfur dioxide MTR-PTTGC5

Location : Ban Mabya

Monitor Period : 20-27 Nov 2023

Analyzer Model : API 100A

Station No : SCT-15

Serial No : 132

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : Teledyne 700E

Serial No : 587

Calibration Gas Cylinder I.D.: EB0108319

Certified Date : 09 Jan 2023


Cal Concentration (ppb) : 0,100,200,400

Expire Date : 08 Jan 2024

Time	SO2 Concentration (ppb)						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
16:00 - 17:00	4.6	2.5	5.1	3.5	3.5	2.1	3.2
17:00 - 18:00	4.5	2.4	5.2	5.7	1.9	2.8	3.2
18:00 - 19:00	4.1	2.5	3.0	6.6	1.9	3.4	3.2
19:00 - 20:00	2.6	2.5	2.8	6.7	2.4	2.7	3.5
20:00 - 21:00	2.4	2.4	2.6	3.4	2.9	3.1	2.9
21:00 - 22:00	2.6	2.9	4.8	2.7	2.6	2.2	3.4
22:00 - 23:00	2.6	2.6	3.5	2.0	2.9	3.1	3.3
23:00 - 00:00	2.3	2.2	2.1	2.0	2.2	2.0	3.7
00:00 - 01:00	2.6	2.5	2.8	1.9	2.8	2.9	3.5
01:00 - 02:00	2.3	2.8	2.3	2.8	2.4	2.9	3.0
02:00 - 03:00	2.3	2.0	2.6	1.9	2.2	2.8	3.2
03:00 - 04:00	2.5	1.8	3.4	1.3	2.2	2.0	2.9
04:00 - 05:00	2.0	2.6	3.0	1.6	1.7	2.2	3.0
05:00 - 06:00	2.4	2.1	2.9	1.2	4.6	2.7	2.5
06:00 - 07:00	2.3	2.1	3.0	1.6	2.5	2.1	3.1
07:00 - 08:00	2.1	2.3	2.3	1.5	1.8	2.0	2.6
08:00 - 09:00	2.0	2.5	2.5	2.1	2.0	2.8	2.3
09:00 - 10:00	2.0	2.9	2.8	2.0	3.1	2.3	3.5
10:00 - 11:00	2.1	2.1	2.9	1.0	3.2	2.3	3.2
11:00 - 12:00	2.9	2.0	2.5	1.5	1.7	2.5	3.9
12:00 - 13:00	2.4	2.1	2.6	1.8	2.3	3.3	3.3
13:00 - 14:00	4.2	2.6	2.5	2.0	2.4	2.7	3.3
14:00 - 15:00	5.1	2.6	2.2	2.2	2.5	3.2	2.5
15:00 - 16:00	2.9	2.6	1.9	3.4	2.2	2.9	2.1
Average-24Hr*	2.8	2.4	3.0	2.6	2.5	2.6	3.1
Max-1Hr	5.1	2.9	5.2	6.7	4.6	3.4	3.9
Min-1Hr	2.0	1.8	1.9	1.0	1.7	2.0	2.1
Standard-1Hr	300 ppb(780 ug/cu.m)						
Standard-24Hr	120 ppb(300 ug/cu.m)						

Remark : \* Average time between 16:00-16:00

  
 (Miss Katesarin Vorradetwittaya)  
 Environmental Scientist

  
 (Miss Preeda Somjai)  
 Technical Management Team





## Ambient Air Monitoring Results : Nitrogen dioxide

### MTR-PTTGC5

Location : Ban Nurnpayom

Monitor Period : 20-27 Nov 2023

Analyzer Model : Teledyne T200

Station No : SCT-16

Serial No : 110

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : Teledyne 700E

Serial No : 587

Calibration Gas Cylinder I.D.: EB0108319

Certified Date : 09 Jan 2023

Cal Concentration (ppb) : 0,100,200,400

Expire Date : 08 Jan 2024

Time	NO2 Concentration (ppb)						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
17:00 - 18:00	13.7	12.4	12.6	4.9	7.8	14.6	8.7
18:00 - 19:00	13.9	9.1	12.6	4.7	9.8	5.0	14.4
19:00 - 20:00	6.7	11.2	4.7	12.4	9.8	6.8	4.7
20:00 - 21:00	9.6	7.9	7.9	6.5	8.0	10.4	12.5
21:00 - 22:00	7.3	9.8	10.3	10.2	6.3	6.5	9.4
22:00 - 23:00	13.7	5.2	10.5	6.6	12.1	8.8	13.5
23:00 - 00:00	14.4	12.2	15.1	14.7	7.6	5.1	11.9
00:00 - 01:00	15.1	6.3	11.7	6.4	9.4	4.6	14.4
01:00 - 02:00	13.3	12.7	12.8	7.1	14.1	9.3	4.4
02:00 - 03:00	5.5	11.6	8.6	9.1	7.8	6.7	11.6
03:00 - 04:00	5.7	8.3	7.8	9.0	14.4	14.7	5.1
04:00 - 05:00	5.6	10.9	7.4	13.1	14.1	9.5	5.0
05:00 - 06:00	7.0	11.0	12.8	10.0	9.0	15.1	9.5
06:00 - 07:00	9.7	7.2	8.9	14.3	15.0	8.9	7.7
07:00 - 08:00	11.2	12.1	9.1	12.3	9.6	4.9	14.3
08:00 - 09:00	7.2	12.3	11.2	11.4	7.2	7.9	8.1
09:00 - 10:00	8.5	4.3	9.9	13.3	8.2	6.8	8.6
10:00 - 11:00	7.8	9.1	7.6	13.9	11.9	7.3	4.9
11:00 - 12:00	11.8	6.0	10.5	14.8	7.3	7.9	11.0
12:00 - 13:00	9.8	8.1	13.6	5.2	5.1	14.9	4.6
13:00 - 14:00	10.5	8.0	9.0	8.7	13.6	4.3	11.6
14:00 - 15:00	8.7	5.4	6.3	7.6	12.5	11.0	13.5
15:00 - 16:00	13.1	10.6	5.3	9.5	11.5	10.3	8.2
16:00 - 17:00	7.4	11.8	12.3	6.5	10.5	5.8	14.2
Average-24Hr*	9.9	9.3	9.9	9.7	10.1	8.6	9.7
Max-1Hr	15.1	12.7	15.1	14.8	15.0	15.1	14.4
Min-1Hr	5.5	4.3	4.7	4.7	5.1	4.3	4.4
Standard-1Hr	170 ppb(320 ug/cu.m)						
Standard-24Hr	-						

Remark : \* Average time between 17:00-17:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Ambient Air Monitoring Results : Nitrogen dioxide

### MTR-PTTGC5

Location : Ban Bon

Monitor Period : 20-27 Nov 2023

Analyzer Model : Thermo 42C

Station No : SCT-17

Serial No : 0336004616

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : Teledyne 700E

Serial No : 587

Calibration Gas Cylinder I.D.: EB0108319

Certified Date : 09 Jan 2023

Cal Concentration (ppb) : 0,100,200,400

Expire Date : 08 Jan 2024

Time	NO2 Concentration (ppb)						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
16:00 - 17:00	20.2	8.9	15.7	12.5	12.7	12.3	22.6
17:00 - 18:00	14.6	7.9	22.3	16.2	17.3	11.9	6.4
18:00 - 19:00	19.9	11.0	19.1	19.7	15.1	3.7	15.1
19:00 - 20:00	19.5	10.7	10.8	17.1	6.9	11.4	15.8
20:00 - 21:00	16.8	10.6	11.8	10.2	13.7	10.7	14.5
21:00 - 22:00	11.6	9.6	12.8	12.5	16.8	11.4	13.6
22:00 - 23:00	7.2	9.8	18.7	8.7	9.7	10.0	8.0
23:00 - 00:00	10.3	9.6	21.7	8.2	20.7	11.0	11.4
00:00 - 01:00	11.6	8.8	15.7	8.0	19.9	6.6	10.6
01:00 - 02:00	8.1	6.1	11.2	9.8	12.8	9.0	8.5
02:00 - 03:00	6.9	8.2	15.0	10.6	12.2	6.8	9.5
03:00 - 04:00	6.9	8.9	15.2	12.9	12.7	12.2	6.6
04:00 - 05:00	11.4	11.1	13.5	15.7	12.9	11.8	9.2
05:00 - 06:00	12.7	11.9	9.4	15.3	7.6	12.7	14.4
06:00 - 07:00	10.0	10.9	11.2	11.7	6.7	11.3	14.4
07:00 - 08:00	10.9	10.1	9.6	11.9	12.0	12.0	15.5
08:00 - 09:00	8.2	7.0	8.2	7.7	11.6	8.6	14.5
09:00 - 10:00	9.7	11.6	14.7	7.7	9.8	13.3	11.8
10:00 - 11:00	9.3	11.8	13.8	9.6	9.8	10.2	13.0
11:00 - 12:00	6.5	11.5	11.6	12.4	9.8	9.1	15.5
12:00 - 13:00	6.8	11.3	9.0	15.6	8.3	13.9	14.2
13:00 - 14:00	10.8	11.6	5.2	12.4	9.6	16.6	10.0
14:00 - 15:00	12.7	17.6	5.7	11.4	8.3	22.8	6.9
15:00 - 16:00	12.0	12.9	11.9	11.2	8.9	24.2	10.9
Average-24Hr*	11.4	10.4	13.1	12.0	11.9	11.8	12.2
Max-1Hr	20.2	17.6	22.3	19.7	20.7	24.2	22.6
Min-1Hr	6.5	6.1	5.2	7.7	6.7	3.7	6.4
Standard-1Hr	170 ppb(320 ug/cu.m)						
Standard-24Hr							

Remark : \* Average time between 16:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Ambient Air Monitoring Results : Nitrogen dioxide

### MTR-PTTGC5

Location : Ban Mabya

Monitor Period : 20-27 Nov 2023

Analyzer Model : API 200A

Station No : SCT-15

Serial No : 074

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : Teledyne 700E

Serial No : 587

Calibration Gas Cylinder I.D.: EB0108319

Certified Date : 09 Jan 2023

Cal Concentration (ppb) : 0,100,200,400

Expire Date : 08 Jan 2024

Time	NO2 Concentration (ppb)						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
16:00 - 17:00	12.4	10.8	16.3	15.5	9.8	10.8	19.2
17:00 - 18:00	14.9	8.0	12.3	14.9	20.9	11.9	20.2
18:00 - 19:00	13.4	10.9	12.9	18.0	15.3	12.4	6.7
19:00 - 20:00	20.0	8.4	16.6	13.6	19.8	7.2	19.1
20:00 - 21:00	15.1	8.9	18.1	14.0	9.9	10.7	16.3
21:00 - 22:00	14.7	6.5	11.7	6.7	11.7	9.3	14.3
22:00 - 23:00	12.2	6.8	9.7	9.3	11.7	7.0	9.6
23:00 - 00:00	7.0	5.4	8.6	8.2	7.9	6.2	5.1
00:00 - 01:00	5.5	6.6	13.5	9.0	11.5	11.3	9.3
01:00 - 02:00	8.4	6.7	10.2	8.1	12.2	7.8	9.3
02:00 - 03:00	5.2	5.4	10.5	9.2	8.6	6.2	8.5
03:00 - 04:00	6.2	7.4	10.3	9.3	5.0	6.6	6.2
04:00 - 05:00	6.0	8.8	6.9	18.3	8.4	9.7	3.8
05:00 - 06:00	11.0	10.2	5.6	19.1	13.7	8.5	9.1
06:00 - 07:00	21.9	9.7	8.5	11.9	11.7	10.8	10.9
07:00 - 08:00	11.4	12.1	11.4	8.3	13.0	9.9	18.1
08:00 - 09:00	9.9	11.3	11.3	6.9	9.4	11.7	21.4
09:00 - 10:00	9.5	10.8	9.8	10.0	6.9	10.0	18.9
10:00 - 11:00	6.7	7.5	8.4	11.6	8.2	11.8	8.6
11:00 - 12:00	7.0	8.8	6.5	12.0	7.1	10.3	11.4
12:00 - 13:00	9.3	11.2	7.4	9.3	7.5	9.6	18.9
13:00 - 14:00	10.9	9.5	7.9	8.5	7.5	12.1	7.2
14:00 - 15:00	11.1	11.2	8.2	9.5	6.6	17.9	11.5
15:00 - 16:00	11.2	19.3	9.8	10.8	9.1	25.9	10.6
Average-24Hr*	10.9	9.3	10.5	11.3	10.6	10.7	12.3
Max-1Hr	21.9	19.3	18.1	19.1	20.9	25.9	21.4
Min-1Hr	5.2	5.4	5.6	6.7	5.0	6.2	3.8
Standard-1Hr	170 ppb(320 ug/cu.m)						
Standard-24Hr	-						

Remark : \* Average-time between 16:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370607**

Date Received : Jul 04, 2023  
Date Reported : Jul 12, 2023  
Report Number : 2688812-1

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**Sample Number** 2370607-3  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	03/07/23 - 04/07/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	03/07/23 - 04/07/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	03/07/23 - 04/07/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	03/07/23 - 04/07/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	03/07/23 - 04/07/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	03/07/23 - 04/07/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	03/07/23 - 04/07/23	ug/m3	1.20	3.71	<3.71	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	03/07/23 - 04/07/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	03/07/23 - 04/07/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370607**

Date Received : Jul 04, 2023  
Date Reported : Jul 12, 2023  
Report Number : 2688812-1

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**Sample Number** 2370607-3  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	03/07/23 - 04/07/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	03/07/23 - 04/07/23	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	03/07/23 - 04/07/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	03/07/23 - 04/07/23	ug/m3	0.04	0.11	0.18	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	03/07/23 - 04/07/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	03/07/23 - 04/07/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	03/07/23 - 04/07/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	03/07/23 - 04/07/23	ug/m3	0.50	1.52	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	03/07/23 - 04/07/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	03/07/23 - 04/07/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370607**

Date Received : Jul 04, 2023  
Date Reported : Jul 12, 2023  
Report Number : 2688812-1

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**Sample Number** : 2370607-3  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	03/07/23 - 04/07/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	03/07/23 - 04/07/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	03/07/23 - 04/07/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	03/07/23 - 04/07/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	03/07/23 - 04/07/23	ug/m3	0.05	0.18	0.83	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	03/07/23 - 04/07/23	ug/m3	0.08	0.24	6.60	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	03/07/23 - 04/07/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	03/07/23 - 04/07/23	ug/m3	0.08	0.23	0.27	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	03/07/23 - 04/07/23	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	03/07/23 - 04/07/23	ug/m3	0.05	0.16	1.21	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	03/07/23 - 04/07/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370607**

Date Received : Jul 04, 2023  
Date Reported : Jul 12, 2023  
Report Number : 2688812-1

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**Sample Number** 2370607-3  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	03/07/23 - 04/07/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	03/07/23 - 04/07/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	03/07/23 - 04/07/23	ug/m3	0.06	0.19	0.23	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	03/07/23 - 04/07/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	03/07/23 - 04/07/23	ug/m3	0.05	0.16	1.37	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	03/07/23 - 04/07/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	03/07/23 - 04/07/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	03/07/23 - 04/07/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	03/07/23 - 04/07/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	03/07/23 - 04/07/23	ug/m3	0.30	1.03	1.16	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370607**

Date Received : Jul 04, 2023  
Date Reported : Jul 12, 2023  
Report Number : 2688812-1

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**Sample Number** : 2370607-3  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	03/07/23 - 04/07/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	03/07/23 - 04/07/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	03/07/23 - 04/07/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	03/07/23 - 04/07/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	03/07/23 - 04/07/23	ug/m3	0.80	2.47	<2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	03/07/23 - 04/07/23	ug/m3	0.06	0.17	<0.17	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	03/07/23 - 04/07/23	ug/m3	0.30	0.94	5.20	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	03/07/23 - 04/07/23	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	03/07/23 - 04/07/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	03/07/23 - 04/07/23	ug/m3	0.60	1.76	1.97	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	03/07/23 - 04/07/23	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370607**

Date Received : Jul 04, 2023  
Date Reported : Jul 12, 2023  
Report Number : 2688812-1

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**Sample Number** 2370607-3  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	03/07/23 - 04/07/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	03/07/23 - 04/07/23	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	03/07/23 - 04/07/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	03/07/23 - 04/07/23	ug/m3	0.20	0.66	17.35	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	03/07/23 - 04/07/23	ug/m3	0.50	1.47	2.30	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	03/07/23 - 04/07/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	03/07/23 - 04/07/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	03/07/23 - 04/07/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	03/07/23 - 04/07/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	03/07/23 - 04/07/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	03/07/23 - 04/07/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370607**

Date Received : Jul 04, 2023  
Date Reported : Jul 12, 2023  
Report Number : 2688812-1

Page 23 of 40

**Sample Number** 2370607-3  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	03/07/23 - 04/07/23	ug/m3	0.50	1.48	3.13	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	03/07/23 - 04/07/23	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	03/07/23 - 04/07/23	ug/m3	0.30	0.86	3.06	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	03/07/23 - 04/07/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	03/07/23 - 04/07/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	03/07/23 - 04/07/23	ug/m3	0.60	1.88	10.70	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	03/07/23 - 04/07/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	03/07/23 - 04/07/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	03/07/23 - 04/07/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	03/07/23 - 04/07/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	03/07/23 - 04/07/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370607**

Date Received : Jul 04, 2023  
Date Reported : Jul 12, 2023  
Report Number : 2688812-1

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**Sample Number** 2370607-3  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	03/07/23 - 04/07/23	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384943**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723850-1

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**Sample Number** 2384943-3  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Aug 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	03/08/23 - 04/08/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	03/08/23 - 04/08/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	03/08/23 - 04/08/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	03/08/23 - 04/08/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	03/08/23 - 04/08/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	03/08/23 - 04/08/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	03/08/23 - 04/08/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	03/08/23 - 04/08/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	03/08/23 - 04/08/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384943**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723850-1

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**Sample Number** 2384943-3  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Aug 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	03/08/23 - 04/08/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	03/08/23 - 04/08/23	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	03/08/23 - 04/08/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	03/08/23 - 04/08/23	ug/m3	0.04	0.11	0.44	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	03/08/23 - 04/08/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	03/08/23 - 04/08/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	03/08/23 - 04/08/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	03/08/23 - 04/08/23	ug/m3	0.50	1.52	<1.52	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	03/08/23 - 04/08/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	03/08/23 - 04/08/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384943**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723850-1

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**Sample Number** 2384943-3  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Aug 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	03/08/23 - 04/08/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	03/08/23 - 04/08/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	03/08/23 - 04/08/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	03/08/23 - 04/08/23	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	03/08/23 - 04/08/23	ug/m3	0.05	0.18	2.99	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	03/08/23 - 04/08/23	ug/m3	0.08	0.24	6.79	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	03/08/23 - 04/08/23	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	03/08/23 - 04/08/23	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	03/08/23 - 04/08/23	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	03/08/23 - 04/08/23	ug/m3	0.05	0.16	0.26	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	03/08/23 - 04/08/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384943**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723850-1

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**Sample Number** 2384943-3  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E, 1410700N)  
**Date Analysis Commenced** Aug 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	03/08/23 - 04/08/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	03/08/23 - 04/08/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	03/08/23 - 04/08/23	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	03/08/23 - 04/08/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	03/08/23 - 04/08/23	ug/m3	0.05	0.16	Not Detected	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	03/08/23 - 04/08/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	03/08/23 - 04/08/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	03/08/23 - 04/08/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	03/08/23 - 04/08/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	03/08/23 - 04/08/23	ug/m3	0.30	1.03	1.65	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384943**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723850-1

Page 21 of 40

**Sample Number** 2384943-3  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Aug 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	03/08/23 - 04/08/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	03/08/23 - 04/08/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	03/08/23 - 04/08/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	03/08/23 - 04/08/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	03/08/23 - 04/08/23	ug/m3	0.80	2.47	2.87	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	03/08/23 - 04/08/23	ug/m3	0.06	0.17	0.28	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	03/08/23 - 04/08/23	ug/m3	0.30	0.94	2.79	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	03/08/23 - 04/08/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	03/08/23 - 04/08/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	03/08/23 - 04/08/23	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	03/08/23 - 04/08/23	ug/m3	0.40	1.15	1.33	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384943**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723850-1

Page 22 of 40

**Sample Number** 2384943-3  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Aug 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	03/08/23 - 04/08/23	ug/m3	0.50	1.39	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	03/08/23 - 04/08/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	03/08/23 - 04/08/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	03/08/23 - 04/08/23	ug/m3	0.20	0.66	17.90	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	03/08/23 - 04/08/23	ug/m3	0.50	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	03/08/23 - 04/08/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	03/08/23 - 04/08/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	03/08/23 - 04/08/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	03/08/23 - 04/08/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	03/08/23 - 04/08/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	03/08/23 - 04/08/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384943**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723850-1

Page 23 of 40

**Sample Number** 2384943-3  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Aug 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	03/08/23 - 04/08/23	ug/m3	0.50	1.48	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	03/08/23 - 04/08/23	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	03/08/23 - 04/08/23	ug/m3	0.30	0.86	2.96	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	03/08/23 - 04/08/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	03/08/23 - 04/08/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	03/08/23 - 04/08/23	ug/m3	0.60	1.88	2.64	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	03/08/23 - 04/08/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	03/08/23 - 04/08/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	03/08/23 - 04/08/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	03/08/23 - 04/08/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	03/08/23 - 04/08/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384943**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723850-1

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**Sample Number** 2384943-3  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Aug 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	03/08/23 - 04/08/23	ug/m3	0.04	0.13	0.15	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

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Dej Changchon  
Senior Manager



## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396494**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748464-1

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**Sample Number** 2396494-3  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	04/09/23 - 05/09/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	04/09/23 - 05/09/23	ug/m3	0.10	0.34	<0.34	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	04/09/23 - 05/09/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	04/09/23 - 05/09/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	04/09/23 - 05/09/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	04/09/23 - 05/09/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	04/09/23 - 05/09/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	04/09/23 - 05/09/23	ug/m3	0.10	0.38	0.46	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	04/09/23 - 05/09/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2396494**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748464-1

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**Sample Number** : 2396494-3  
**Sampled Date** : Sep 04, 2023  
**Sample Description** : Air Quality  
**Location** : PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** : Sep 07, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	04/09/23 - 05/09/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	04/09/23 - 05/09/23	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	04/09/23 - 05/09/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	04/09/23 - 05/09/23	ug/m3	0.04	0.11	<0.11	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	04/09/23 - 05/09/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	04/09/23 - 05/09/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	04/09/23 - 05/09/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	04/09/23 - 05/09/23	ug/m3	0.50	1.52	2.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	04/09/23 - 05/09/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	04/09/23 - 05/09/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396494**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748464-1

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**Sample Number** 2396494-3  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	04/09/23 - 05/09/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	04/09/23 - 05/09/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	04/09/23 - 05/09/23	ug/m3	0.05	0.18	3.54	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	04/09/23 - 05/09/23	ug/m3	0.08	0.24	22.90	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	04/09/23 - 05/09/23	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	04/09/23 - 05/09/23	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	04/09/23 - 05/09/23	ug/m3	0.07	0.22	0.30	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	04/09/23 - 05/09/23	ug/m3	0.05	0.16	0.70	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	04/09/23 - 05/09/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396494**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748464-1

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**Sample Number** 2396494-3  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	04/09/23 - 05/09/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	04/09/23 - 05/09/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	04/09/23 - 05/09/23	ug/m3	0.06	0.19	0.23	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	04/09/23 - 05/09/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	04/09/23 - 05/09/23	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	04/09/23 - 05/09/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	04/09/23 - 05/09/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	04/09/23 - 05/09/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	04/09/23 - 05/09/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	04/09/23 - 05/09/23	ug/m3	0.30	1.03	1.49	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396494**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748464-1

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**Sample Number** 2396494-3  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	04/09/23 - 05/09/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	04/09/23 - 05/09/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	04/09/23 - 05/09/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	04/09/23 - 05/09/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	04/09/23 - 05/09/23	ug/m3	0.80	2.47	2.67	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	04/09/23 - 05/09/23	ug/m3	0.06	0.17	0.21	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	04/09/23 - 05/09/23	ug/m3	0.30	0.94	1.28	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	04/09/23 - 05/09/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	04/09/23 - 05/09/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	04/09/23 - 05/09/23	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396494**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748464-1

Page 22 of 40

**Sample Number** 2396494-3  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	04/09/23 - 05/09/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	04/09/23 - 05/09/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	04/09/23 - 05/09/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	04/09/23 - 05/09/23	ug/m3	0.20	0.66	9.70	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	04/09/23 - 05/09/23	ug/m3	0.50	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	04/09/23 - 05/09/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	04/09/23 - 05/09/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	04/09/23 - 05/09/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	04/09/23 - 05/09/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	04/09/23 - 05/09/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	04/09/23 - 05/09/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396494**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748464-1

Page 23 of 40

**Sample Number** 2396494-3  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	04/09/23 - 05/09/23	ug/m3	0.50	1.48	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	04/09/23 - 05/09/23	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	04/09/23 - 05/09/23	ug/m3	0.30	0.86	1.79	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	04/09/23 - 05/09/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	04/09/23 - 05/09/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	04/09/23 - 05/09/23	ug/m3	0.60	1.88	<1.88	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	04/09/23 - 05/09/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	04/09/23 - 05/09/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	04/09/23 - 05/09/23	ug/m3	0.09	0.27	<0.27	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	04/09/23 - 05/09/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396494**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748464-1

Page 24 of 40

**Sample Number** 2396494-3  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	04/09/23 - 05/09/23	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Satcha Phetsawaeng

**Remark :**

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

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111073**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785713-1

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**Sample Number** 23111073-3  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	02/10/23 - 03/10/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/10/23 - 03/10/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/10/23 - 03/10/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/10/23 - 03/10/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/10/23 - 03/10/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/10/23 - 03/10/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/10/23 - 03/10/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/10/23 - 03/10/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/10/23 - 03/10/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111073**

Date Received : Oct 03, 2023

Date Reported : Oct 10, 2023

Report Number : 2785713-1

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**Sample Number** 23111073-3  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	02/10/23 - 03/10/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/10/23 - 03/10/23	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/10/23 - 03/10/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/10/23 - 03/10/23	ug/m3	0.04	0.11	0.22	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	02/10/23 - 03/10/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/10/23 - 03/10/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/10/23 - 03/10/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/10/23 - 03/10/23	ug/m3	0.50	1.52	5.82	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	02/10/23 - 03/10/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	02/10/23 - 03/10/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111073**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785713-1

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**Sample Number** 23111073-3  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	02/10/23 - 03/10/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	02/10/23 - 03/10/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	02/10/23 - 03/10/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	02/10/23 - 03/10/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	02/10/23 - 03/10/23	ug/m3	0.05	0.18	8.66	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	02/10/23 - 03/10/23	ug/m3	0.08	0.24	11.92	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	02/10/23 - 03/10/23	ug/m3	0.30	0.84	0.87	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	02/10/23 - 03/10/23	ug/m3	0.08	0.23	0.41	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/10/23 - 03/10/23	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/10/23 - 03/10/23	ug/m3	0.05	0.16	1.47	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	02/10/23 - 03/10/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111073**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785713-1

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**Sample Number** 23111073-3  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	02/10/23 - 03/10/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	02/10/23 - 03/10/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	02/10/23 - 03/10/23	ug/m3	0.06	0.19	0.47	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	02/10/23 - 03/10/23	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/10/23 - 03/10/23	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/10/23 - 03/10/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	02/10/23 - 03/10/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	02/10/23 - 03/10/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	02/10/23 - 03/10/23	ug/m3	0.08	0.24	0.39	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/10/23 - 03/10/23	ug/m3	0.30	1.03	2.73	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111073**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785713-1

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**Sample Number** 23111073-3  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	02/10/23 - 03/10/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	02/10/23 - 03/10/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	02/10/23 - 03/10/23	ug/m3	0.60	1.72	<1.72	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	02/10/23 - 03/10/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	02/10/23 - 03/10/23	ug/m3	0.80	2.47	3.16	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	02/10/23 - 03/10/23	ug/m3	0.06	0.17	1.04	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	02/10/23 - 03/10/23	ug/m3	0.30	0.94	12.32	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	02/10/23 - 03/10/23	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	02/10/23 - 03/10/23	ug/m3	0.60	2.05	2.29	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	02/10/23 - 03/10/23	ug/m3	0.60	1.76	1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	02/10/23 - 03/10/23	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111073**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785713-1

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**Sample Number** 23111073-3  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	02/10/23 - 03/10/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	02/10/23 - 03/10/23	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	02/10/23 - 03/10/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	02/10/23 - 03/10/23	ug/m3	0.20	0.66	9.38	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	02/10/23 - 03/10/23	ug/m3	0.50	1.47	2.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	02/10/23 - 03/10/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	02/10/23 - 03/10/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	02/10/23 - 03/10/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	02/10/23 - 03/10/23	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	02/10/23 - 03/10/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	02/10/23 - 03/10/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

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**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111073**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785713-1

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**Sample Number** 23111073-3  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	02/10/23 - 03/10/23	ug/m3	0.50	1.48	2.42	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	02/10/23 - 03/10/23	ug/m3	0.50	1.19	1.33	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/10/23 - 03/10/23	ug/m3	0.30	0.86	1.82	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	02/10/23 - 03/10/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	02/10/23 - 03/10/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	02/10/23 - 03/10/23	ug/m3	0.60	1.88	7.61	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	02/10/23 - 03/10/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	02/10/23 - 03/10/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	02/10/23 - 03/10/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/10/23 - 03/10/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	02/10/23 - 03/10/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111073**

Date Received : Oct 03, 2023

Date Reported : Oct 10, 2023

Report Number : 2785713-1

Page 24 of 40

**Sample Number** 23111073-3  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	02/10/23 - 03/10/23	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123809**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815311-1

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**Sample Number** 23123809-3  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	01/11/23 - 02/11/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	01/11/23 - 02/11/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	01/11/23 - 02/11/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	01/11/23 - 02/11/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	01/11/23 - 02/11/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	01/11/23 - 02/11/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	01/11/23 - 02/11/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	01/11/23 - 02/11/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	01/11/23 - 02/11/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123809**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815311-1

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**Sample Number** : 23123809-3  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	01/11/23 - 02/11/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	01/11/23 - 02/11/23	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	01/11/23 - 02/11/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	01/11/23 - 02/11/23	ug/m3	0.04	0.11	<0.11	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	01/11/23 - 02/11/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	01/11/23 - 02/11/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	01/11/23 - 02/11/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	01/11/23 - 02/11/23	ug/m3	0.50	1.52	7.40	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	01/11/23 - 02/11/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	01/11/23 - 02/11/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123809**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815311-1

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**Sample Number** 23123809-3  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	01/11/23 - 02/11/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	01/11/23 - 02/11/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	01/11/23 - 02/11/23	ug/m3	0.05	0.18	2.89	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	01/11/23 - 02/11/23	ug/m3	0.08	0.24	7.36	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	01/11/23 - 02/11/23	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	01/11/23 - 02/11/23	ug/m3	0.08	0.23	Not Detected	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	01/11/23 - 02/11/23	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	01/11/23 - 02/11/23	ug/m3	0.05	0.16	3.39	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	01/11/23 - 02/11/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123809**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815311-1

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**Sample Number** : 23123809-3  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	01/11/23 - 02/11/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	01/11/23 - 02/11/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	01/11/23 - 02/11/23	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	01/11/23 - 02/11/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	01/11/23 - 02/11/23	ug/m3	0.05	0.16	Not Detected	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	01/11/23 - 02/11/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	01/11/23 - 02/11/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	01/11/23 - 02/11/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	01/11/23 - 02/11/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	01/11/23 - 02/11/23	ug/m3	0.30	1.03	1.65	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123809**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815311-1

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**Sample Number** 23123809-3  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	01/11/23 - 02/11/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	01/11/23 - 02/11/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	01/11/23 - 02/11/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	01/11/23 - 02/11/23	ug/m3	0.50	1.43	1.49	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	01/11/23 - 02/11/23	ug/m3	0.80	2.47	<2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	01/11/23 - 02/11/23	ug/m3	0.06	0.17	1.67	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	01/11/23 - 02/11/23	ug/m3	0.30	0.94	3.99	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	01/11/23 - 02/11/23	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	01/11/23 - 02/11/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	01/11/23 - 02/11/23	ug/m3	0.40	1.15	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123809**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815311-1

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**Sample Number** 23123809-3  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	01/11/23 - 02/11/23	ug/m3	0.50	1.39	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	01/11/23 - 02/11/23	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	01/11/23 - 02/11/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	01/11/23 - 02/11/23	ug/m3	0.20	0.66	5.45	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	01/11/23 - 02/11/23	ug/m3	0.50	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	01/11/23 - 02/11/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	01/11/23 - 02/11/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	01/11/23 - 02/11/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	01/11/23 - 02/11/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	01/11/23 - 02/11/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	01/11/23 - 02/11/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123809**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815311-1

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**Sample Number** : 23123809-3  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	01/11/23 - 02/11/23	ug/m3	0.50	1.48	5.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	01/11/23 - 02/11/23	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	01/11/23 - 02/11/23	ug/m3	0.30	0.86	1.51	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	01/11/23 - 02/11/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	01/11/23 - 02/11/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	01/11/23 - 02/11/23	ug/m3	0.60	1.88	4.67	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	01/11/23 - 02/11/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	01/11/23 - 02/11/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	01/11/23 - 02/11/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	01/11/23 - 02/11/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123809**

Date Received : Nov 02, 2023

Date Reported : Nov 07, 2023

Report Number : 2815311-1

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**Sample Number** 23123809-3  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	01/11/23 - 02/11/23	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129681**

Date Received : Dec 07, 2023

Date Reported : Dec 14, 2023

Report Number : 2827039-1

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**Sample Number** 23129681-3  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	06/12/23 - 07/12/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	06/12/23 - 07/12/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	06/12/23 - 07/12/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	06/12/23 - 07/12/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	06/12/23 - 07/12/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	06/12/23 - 07/12/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	06/12/23 - 07/12/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	06/12/23 - 07/12/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	06/12/23 - 07/12/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129681**

Date Received : Dec 07, 2023

Date Reported : Dec 14, 2023

Report Number : 2827039-1

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**Sample Number** : 23129681-3  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	06/12/23 - 07/12/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	06/12/23 - 07/12/23	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	06/12/23 - 07/12/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	06/12/23 - 07/12/23	ug/m3	0.04	0.11	0.13	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	06/12/23 - 07/12/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	06/12/23 - 07/12/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	06/12/23 - 07/12/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	06/12/23 - 07/12/23	ug/m3	0.50	1.52	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	06/12/23 - 07/12/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	06/12/23 - 07/12/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129681**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827039-1

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**Sample Number** : 23129681-3  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	06/12/23 - 07/12/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	06/12/23 - 07/12/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	06/12/23 - 07/12/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	06/12/23 - 07/12/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	06/12/23 - 07/12/23	ug/m3	0.05	0.18	5.56	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	06/12/23 - 07/12/23	ug/m3	0.08	0.24	14.40	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	06/12/23 - 07/12/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	06/12/23 - 07/12/23	ug/m3	0.08	0.23	Not Detected	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	06/12/23 - 07/12/23	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	06/12/23 - 07/12/23	ug/m3	0.05	0.16	2.30	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	06/12/23 - 07/12/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129681**

Date Received : Dec 07, 2023

Date Reported : Dec 14, 2023

Report Number : 2827039-1

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**Sample Number** 23129681-3  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	06/12/23 - 07/12/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	06/12/23 - 07/12/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	06/12/23 - 07/12/23	ug/m3	0.06	0.19	0.23	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	06/12/23 - 07/12/23	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	06/12/23 - 07/12/23	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	06/12/23 - 07/12/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	06/12/23 - 07/12/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	06/12/23 - 07/12/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	06/12/23 - 07/12/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	06/12/23 - 07/12/23	ug/m3	0.30	1.03	1.98	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129681**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
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**Sample Number** : 23129681-3  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	06/12/23 - 07/12/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	06/12/23 - 07/12/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	06/12/23 - 07/12/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	06/12/23 - 07/12/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	06/12/23 - 07/12/23	ug/m3	0.80	2.47	2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	06/12/23 - 07/12/23	ug/m3	0.06	0.17	1.81	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	06/12/23 - 07/12/23	ug/m3	0.30	0.94	5.01	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	06/12/23 - 07/12/23	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	06/12/23 - 07/12/23	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	06/12/23 - 07/12/23	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	06/12/23 - 07/12/23	ug/m3	0.40	1.15	1.70	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129681**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827039-1

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**Sample Number** 23129681-3  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	06/12/23 - 07/12/23	ug/m3	0.50	1.39	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	06/12/23 - 07/12/23	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	06/12/23 - 07/12/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	06/12/23 - 07/12/23	ug/m3	0.20	0.66	6.55	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	06/12/23 - 07/12/23	ug/m3	0.50	1.47	3.48	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	06/12/23 - 07/12/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	06/12/23 - 07/12/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	06/12/23 - 07/12/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	06/12/23 - 07/12/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	06/12/23 - 07/12/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	06/12/23 - 07/12/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129681**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827039-1

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**Sample Number** : 23129681-3  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	06/12/23 - 07/12/23	ug/m3	0.50	1.48	4.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	06/12/23 - 07/12/23	ug/m3	0.50	1.19	1.57	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	06/12/23 - 07/12/23	ug/m3	0.30	0.86	4.41	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	06/12/23 - 07/12/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	06/12/23 - 07/12/23	ug/m3	0.11	0.34	<0.34	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	06/12/23 - 07/12/23	ug/m3	0.60	1.88	2.64	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	06/12/23 - 07/12/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	06/12/23 - 07/12/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	06/12/23 - 07/12/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	06/12/23 - 07/12/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	06/12/23 - 07/12/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129681**

Date Received : Dec 07, 2023

Date Reported : Dec 14, 2023

Report Number : 2827039-1

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**Sample Number** 23129681-3  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** PTTGC (พิกัด 47P 0735154E , 1410700N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	06/12/23 - 07/12/23	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

Approved by

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## Analysis / Test Report

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**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370588**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688791-1

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**Sample Number** : 2370588-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเกต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	03/07/23 - 04/07/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	03/07/23 - 04/07/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	03/07/23 - 04/07/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	03/07/23 - 04/07/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	03/07/23 - 04/07/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	03/07/23 - 04/07/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	03/07/23 - 04/07/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	03/07/23 - 04/07/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	03/07/23 - 04/07/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370588**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688791-1

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**Sample Number** : 2370588-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	03/07/23 - 04/07/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	03/07/23 - 04/07/23	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	03/07/23 - 04/07/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	03/07/23 - 04/07/23	ug/m3	0.04	0.11	0.18	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	03/07/23 - 04/07/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	03/07/23 - 04/07/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	03/07/23 - 04/07/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	03/07/23 - 04/07/23	ug/m3	0.50	1.52	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	03/07/23 - 04/07/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	03/07/23 - 04/07/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370588**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688791-1

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**Sample Number** : 2370588-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	03/07/23 - 04/07/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	03/07/23 - 04/07/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	03/07/23 - 04/07/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	03/07/23 - 04/07/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	03/07/23 - 04/07/23	ug/m3	0.05	0.18	0.79	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	03/07/23 - 04/07/23	ug/m3	0.08	0.24	6.37	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	03/07/23 - 04/07/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	03/07/23 - 04/07/23	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	03/07/23 - 04/07/23	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	03/07/23 - 04/07/23	ug/m3	0.05	0.16	2.30	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	03/07/23 - 04/07/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370588**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688791-1

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**Sample Number** : 2370588-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	03/07/23 - 04/07/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	03/07/23 - 04/07/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	03/07/23 - 04/07/23	ug/m3	0.06	0.19	0.54	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	03/07/23 - 04/07/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	03/07/23 - 04/07/23	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	03/07/23 - 04/07/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	03/07/23 - 04/07/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	03/07/23 - 04/07/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	03/07/23 - 04/07/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	03/07/23 - 04/07/23	ug/m3	0.30	1.03	1.03	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370588**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688791-1

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**Sample Number** 2370588-1  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	03/07/23 - 04/07/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	03/07/23 - 04/07/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	03/07/23 - 04/07/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	03/07/23 - 04/07/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	03/07/23 - 04/07/23	ug/m3	0.80	2.47	<2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	03/07/23 - 04/07/23	ug/m3	0.06	0.17	1.53	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	03/07/23 - 04/07/23	ug/m3	0.30	0.94	6.78	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	03/07/23 - 04/07/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	03/07/23 - 04/07/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	03/07/23 - 04/07/23	ug/m3	0.60	1.76	1.97	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	03/07/23 - 04/07/23	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370588**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688791-1

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**Sample Number** : 2370588-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	03/07/23 - 04/07/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	03/07/23 - 04/07/23	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	03/07/23 - 04/07/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	03/07/23 - 04/07/23	ug/m3	0.20	0.66	17.74	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	03/07/23 - 04/07/23	ug/m3	0.50	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	03/07/23 - 04/07/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	03/07/23 - 04/07/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	03/07/23 - 04/07/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	03/07/23 - 04/07/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	03/07/23 - 04/07/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	03/07/23 - 04/07/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370588**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688791-1

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**Sample Number** 2370588-1  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	03/07/23 - 04/07/23	ug/m3	0.50	1.48	3.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	03/07/23 - 04/07/23	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	03/07/23 - 04/07/23	ug/m3	0.30	0.86	3.55	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	03/07/23 - 04/07/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	03/07/23 - 04/07/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	03/07/23 - 04/07/23	ug/m3	0.60	1.88	7.01	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	03/07/23 - 04/07/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	03/07/23 - 04/07/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	03/07/23 - 04/07/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	03/07/23 - 04/07/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	03/07/23 - 04/07/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370588**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688791-1

Page 8 of 8

**Sample Number** 2370588-1  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	03/07/23 - 04/07/23	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

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Senior Manager



## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384933**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723836-1

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**Sample Number** 2384933-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	03/08/23 - 04/08/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	03/08/23 - 04/08/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	03/08/23 - 04/08/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	03/08/23 - 04/08/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	03/08/23 - 04/08/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	03/08/23 - 04/08/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	03/08/23 - 04/08/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	03/08/23 - 04/08/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	03/08/23 - 04/08/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2384933**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723836-1

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**Sample Number** : 2384933-1  
**Sampled Date** : Aug 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** : Aug 07, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	03/08/23 - 04/08/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	03/08/23 - 04/08/23	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	03/08/23 - 04/08/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	03/08/23 - 04/08/23	ug/m3	0.04	0.11	0.53	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	03/08/23 - 04/08/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	03/08/23 - 04/08/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	03/08/23 - 04/08/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	03/08/23 - 04/08/23	ug/m3	0.50	1.52	2.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	03/08/23 - 04/08/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	03/08/23 - 04/08/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384933**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723836-1

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**Sample Number** 2384933-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	03/08/23 - 04/08/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	03/08/23 - 04/08/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	03/08/23 - 04/08/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	03/08/23 - 04/08/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	03/08/23 - 04/08/23	ug/m3	0.05	0.18	2.02	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	03/08/23 - 04/08/23	ug/m3	0.08	0.24	4.18	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	03/08/23 - 04/08/23	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	03/08/23 - 04/08/23	ug/m3	0.08	0.23	Not Detected	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	03/08/23 - 04/08/23	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	03/08/23 - 04/08/23	ug/m3	0.05	0.16	2.56	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	03/08/23 - 04/08/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384933**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723836-1

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**Sample Number** 2384933-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	03/08/23 - 04/08/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	03/08/23 - 04/08/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	03/08/23 - 04/08/23	ug/m3	0.06	0.19	0.23	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	03/08/23 - 04/08/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	03/08/23 - 04/08/23	ug/m3	0.05	0.16	Not Detected	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	03/08/23 - 04/08/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	03/08/23 - 04/08/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	03/08/23 - 04/08/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	03/08/23 - 04/08/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	03/08/23 - 04/08/23	ug/m3	0.30	1.03	1.49	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2384933**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723836-1

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**Sample Number** : 2384933-1  
**Sampled Date** : Aug 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** : Aug 07, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	03/08/23 - 04/08/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	03/08/23 - 04/08/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	03/08/23 - 04/08/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	03/08/23 - 04/08/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	03/08/23 - 04/08/23	ug/m3	0.80	2.47	2.57	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	03/08/23 - 04/08/23	ug/m3	0.06	0.17	0.21	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	03/08/23 - 04/08/23	ug/m3	0.30	0.94	2.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	03/08/23 - 04/08/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	03/08/23 - 04/08/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	03/08/23 - 04/08/23	ug/m3	0.60	1.76	4.58	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	03/08/23 - 04/08/23	ug/m3	0.40	1.15	4.22	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384933**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723836-1

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**Sample Number** 2384933-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	03/08/23 - 04/08/23	ug/m3	0.50	1.39	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	03/08/23 - 04/08/23	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	03/08/23 - 04/08/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	03/08/23 - 04/08/23	ug/m3	0.20	0.66	8.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	03/08/23 - 04/08/23	ug/m3	0.50	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	03/08/23 - 04/08/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	03/08/23 - 04/08/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	03/08/23 - 04/08/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	03/08/23 - 04/08/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	03/08/23 - 04/08/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	03/08/23 - 04/08/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384933**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723836-1

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**Sample Number** 2384933-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	03/08/23 - 04/08/23	ug/m3	0.50	1.48	1.65	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	03/08/23 - 04/08/23	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	03/08/23 - 04/08/23	ug/m3	0.30	0.86	10.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	03/08/23 - 04/08/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	03/08/23 - 04/08/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	03/08/23 - 04/08/23	ug/m3	0.60	1.88	2.56	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	03/08/23 - 04/08/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	03/08/23 - 04/08/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	03/08/23 - 04/08/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	03/08/23 - 04/08/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	03/08/23 - 04/08/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384933**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723836-1

Page 8 of 8

**Sample Number** 2384933-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	03/08/23 - 04/08/23	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2396481**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748452-1

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**Sample Number** : 2396481-1  
**Sampled Date** : Sep 04, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเกต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** : Sep 07, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	04/09/23 - 05/09/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	04/09/23 - 05/09/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	04/09/23 - 05/09/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	04/09/23 - 05/09/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	04/09/23 - 05/09/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	04/09/23 - 05/09/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	04/09/23 - 05/09/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	04/09/23 - 05/09/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	04/09/23 - 05/09/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396481**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748452-1

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**Sample Number** 2396481-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	04/09/23 - 05/09/23	ug/m3	0.07	0.20	0.24	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	04/09/23 - 05/09/23	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	04/09/23 - 05/09/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	04/09/23 - 05/09/23	ug/m3	0.04	0.11	0.88	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	04/09/23 - 05/09/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	04/09/23 - 05/09/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	04/09/23 - 05/09/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	04/09/23 - 05/09/23	ug/m3	0.50	1.52	4.18	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	04/09/23 - 05/09/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	04/09/23 - 05/09/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396481**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748452-1

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**Sample Number** 2396481-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	04/09/23 - 05/09/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	04/09/23 - 05/09/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	04/09/23 - 05/09/23	ug/m3	0.05	0.18	2.31	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	04/09/23 - 05/09/23	ug/m3	0.08	0.24	11.31	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	04/09/23 - 05/09/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	04/09/23 - 05/09/23	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	04/09/23 - 05/09/23	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	04/09/23 - 05/09/23	ug/m3	0.05	0.16	1.98	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	04/09/23 - 05/09/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396481**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748452-1

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**Sample Number** 2396481-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	04/09/23 - 05/09/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	04/09/23 - 05/09/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	04/09/23 - 05/09/23	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	04/09/23 - 05/09/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	04/09/23 - 05/09/23	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	04/09/23 - 05/09/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	04/09/23 - 05/09/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	04/09/23 - 05/09/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	04/09/23 - 05/09/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	04/09/23 - 05/09/23	ug/m3	0.30	1.03	1.03	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396481**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748452-1

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**Sample Number** 2396481-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	04/09/23 - 05/09/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	04/09/23 - 05/09/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	04/09/23 - 05/09/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	04/09/23 - 05/09/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	04/09/23 - 05/09/23	ug/m3	0.80	2.47	<2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	04/09/23 - 05/09/23	ug/m3	0.06	0.17	0.28	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	04/09/23 - 05/09/23	ug/m3	0.30	0.94	1.28	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	04/09/23 - 05/09/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	04/09/23 - 05/09/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	04/09/23 - 05/09/23	ug/m3	0.60	1.76	2.75	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	04/09/23 - 05/09/23	ug/m3	0.40	1.15	7.80	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396481**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748452-1

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**Sample Number** 2396481-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	04/09/23 - 05/09/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	04/09/23 - 05/09/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	04/09/23 - 05/09/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	04/09/23 - 05/09/23	ug/m3	0.20	0.66	10.59	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	04/09/23 - 05/09/23	ug/m3	0.50	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	04/09/23 - 05/09/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	04/09/23 - 05/09/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	04/09/23 - 05/09/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	04/09/23 - 05/09/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	04/09/23 - 05/09/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	04/09/23 - 05/09/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396481**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748452-1

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**Sample Number** 2396481-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	04/09/23 - 05/09/23	ug/m3	0.50	1.48	2.18	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	04/09/23 - 05/09/23	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	04/09/23 - 05/09/23	ug/m3	0.30	0.86	10.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	04/09/23 - 05/09/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	04/09/23 - 05/09/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	04/09/23 - 05/09/23	ug/m3	0.60	1.88	<1.88	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	04/09/23 - 05/09/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	04/09/23 - 05/09/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	04/09/23 - 05/09/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	04/09/23 - 05/09/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396481**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748452-1

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**Sample Number** 2396481-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	04/09/23 - 05/09/23	ug/m3	0.04	0.13	0.15	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Satcha Phetsawaeng

**Remark :**

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

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111055**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785695-1

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**Sample Number** 23111055-1  
**Sampled Date** Oct 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	02/10/23 - 03/10/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/10/23 - 03/10/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/10/23 - 03/10/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/10/23 - 03/10/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/10/23 - 03/10/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/10/23 - 03/10/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/10/23 - 03/10/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/10/23 - 03/10/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/10/23 - 03/10/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111055**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785695-1

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**Sample Number** 23111055-1  
**Sampled Date** Oct 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	02/10/23 - 03/10/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/10/23 - 03/10/23	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/10/23 - 03/10/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/10/23 - 03/10/23	ug/m3	0.04	0.11	0.18	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	02/10/23 - 03/10/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/10/23 - 03/10/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/10/23 - 03/10/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/10/23 - 03/10/23	ug/m3	0.50	1.52	32.98	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	02/10/23 - 03/10/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	02/10/23 - 03/10/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111055**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785695-1

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**Sample Number** 23111055-1  
**Sampled Date** Oct 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	02/10/23 - 03/10/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	02/10/23 - 03/10/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	02/10/23 - 03/10/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	02/10/23 - 03/10/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	02/10/23 - 03/10/23	ug/m3	0.05	0.18	8.55	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	02/10/23 - 03/10/23	ug/m3	0.08	0.24	10.26	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	02/10/23 - 03/10/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	02/10/23 - 03/10/23	ug/m3	0.08	0.23	0.37	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/10/23 - 03/10/23	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/10/23 - 03/10/23	ug/m3	0.05	0.16	1.73	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	02/10/23 - 03/10/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111055**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785695-1

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**Sample Number** 23111055-1  
**Sampled Date** Oct 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	02/10/23 - 03/10/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	02/10/23 - 03/10/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	02/10/23 - 03/10/23	ug/m3	0.06	0.19	0.31	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	02/10/23 - 03/10/23	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/10/23 - 03/10/23	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/10/23 - 03/10/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	02/10/23 - 03/10/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	02/10/23 - 03/10/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	02/10/23 - 03/10/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/10/23 - 03/10/23	ug/m3	0.30	1.03	2.27	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111055**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785695-1

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**Sample Number** 23111055-1  
**Sampled Date** Oct 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	02/10/23 - 03/10/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	02/10/23 - 03/10/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	02/10/23 - 03/10/23	ug/m3	0.60	1.72	<1.72	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	02/10/23 - 03/10/23	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	02/10/23 - 03/10/23	ug/m3	0.80	2.47	2.97	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	02/10/23 - 03/10/23	ug/m3	0.06	0.17	1.67	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	02/10/23 - 03/10/23	ug/m3	0.30	0.94	13.04	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	02/10/23 - 03/10/23	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	02/10/23 - 03/10/23	ug/m3	0.60	2.05	2.79	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	02/10/23 - 03/10/23	ug/m3	0.60	1.76	3.24	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	02/10/23 - 03/10/23	ug/m3	0.40	1.15	1.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111055**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785695-1

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**Sample Number** 23111055-1  
**Sampled Date** Oct 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	02/10/23 - 03/10/23	ug/m3	0.50	1.39	2.28	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	02/10/23 - 03/10/23	ug/m3	1.50	4.34	14.42	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	02/10/23 - 03/10/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	02/10/23 - 03/10/23	ug/m3	0.20	0.66	8.26	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	02/10/23 - 03/10/23	ug/m3	0.50	1.47	2.42	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	02/10/23 - 03/10/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	02/10/23 - 03/10/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	02/10/23 - 03/10/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	02/10/23 - 03/10/23	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	02/10/23 - 03/10/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	02/10/23 - 03/10/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111055**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785695-1

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**Sample Number** 23111055-1  
**Sampled Date** Oct 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	02/10/23 - 03/10/23	ug/m3	0.50	1.48	11.33	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	02/10/23 - 03/10/23	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/10/23 - 03/10/23	ug/m3	0.30	0.86	3.68	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	02/10/23 - 03/10/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	02/10/23 - 03/10/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	02/10/23 - 03/10/23	ug/m3	0.60	1.88	8.59	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	02/10/23 - 03/10/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	02/10/23 - 03/10/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	02/10/23 - 03/10/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/10/23 - 03/10/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	02/10/23 - 03/10/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111055**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785695-1

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**Sample Number** 23111055-1  
**Sampled Date** Oct 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	02/10/23 - 03/10/23	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123799**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815281-1

Page 1 of 8

**Sample Number** : 23123799-1  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	01/11/23 - 02/11/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	01/11/23 - 02/11/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	01/11/23 - 02/11/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	01/11/23 - 02/11/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	01/11/23 - 02/11/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	01/11/23 - 02/11/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	01/11/23 - 02/11/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	01/11/23 - 02/11/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	01/11/23 - 02/11/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123799**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815281-1

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**Sample Number** 23123799-1  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	01/11/23 - 02/11/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	01/11/23 - 02/11/23	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	01/11/23 - 02/11/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	01/11/23 - 02/11/23	ug/m3	0.04	0.11	<0.11	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	01/11/23 - 02/11/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	01/11/23 - 02/11/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	01/11/23 - 02/11/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	01/11/23 - 02/11/23	ug/m3	0.50	1.52	3.09	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	01/11/23 - 02/11/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	01/11/23 - 02/11/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123799**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815281-1

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**Sample Number** 23123799-1  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	01/11/23 - 02/11/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	01/11/23 - 02/11/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	01/11/23 - 02/11/23	ug/m3	0.05	0.18	2.02	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	01/11/23 - 02/11/23	ug/m3	0.08	0.24	7.08	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	01/11/23 - 02/11/23	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	01/11/23 - 02/11/23	ug/m3	0.08	0.23	Not Detected	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	01/11/23 - 02/11/23	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	01/11/23 - 02/11/23	ug/m3	0.05	0.16	0.64	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	01/11/23 - 02/11/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123799**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815281-1

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**Sample Number** : 23123799-1  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	01/11/23 - 02/11/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	01/11/23 - 02/11/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	01/11/23 - 02/11/23	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	01/11/23 - 02/11/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	01/11/23 - 02/11/23	ug/m3	0.05	0.16	0.25	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	01/11/23 - 02/11/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	01/11/23 - 02/11/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	01/11/23 - 02/11/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	01/11/23 - 02/11/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	01/11/23 - 02/11/23	ug/m3	0.30	1.03	1.73	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123799**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815281-1

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**Sample Number** : 23123799-1  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	01/11/23 - 02/11/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	01/11/23 - 02/11/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	01/11/23 - 02/11/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	01/11/23 - 02/11/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	01/11/23 - 02/11/23	ug/m3	0.80	2.47	<2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	01/11/23 - 02/11/23	ug/m3	0.06	0.17	1.88	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	01/11/23 - 02/11/23	ug/m3	0.30	0.94	3.35	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	01/11/23 - 02/11/23	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	01/11/23 - 02/11/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	01/11/23 - 02/11/23	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123799**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815281-1

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**Sample Number** 23123799-1  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	01/11/23 - 02/11/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	01/11/23 - 02/11/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	01/11/23 - 02/11/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	01/11/23 - 02/11/23	ug/m3	0.20	0.66	11.66	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	01/11/23 - 02/11/23	ug/m3	0.50	1.47	1.53	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	01/11/23 - 02/11/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	01/11/23 - 02/11/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	01/11/23 - 02/11/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	01/11/23 - 02/11/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	01/11/23 - 02/11/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	01/11/23 - 02/11/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123799**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815281-1

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**Sample Number** 23123799-1  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	01/11/23 - 02/11/23	ug/m3	0.50	1.48	1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	01/11/23 - 02/11/23	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	01/11/23 - 02/11/23	ug/m3	0.30	0.86	1.45	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	01/11/23 - 02/11/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	01/11/23 - 02/11/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	01/11/23 - 02/11/23	ug/m3	0.60	1.88	4.90	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	01/11/23 - 02/11/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	01/11/23 - 02/11/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	01/11/23 - 02/11/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	01/11/23 - 02/11/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123799**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815281-1

Page 8 of 8

**Sample Number** 23123799-1  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	01/11/23 - 02/11/23	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129662**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827018-1

Page 1 of 8

**Sample Number** 23129662-1  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	06/12/23 - 07/12/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	06/12/23 - 07/12/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	06/12/23 - 07/12/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	06/12/23 - 07/12/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	06/12/23 - 07/12/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	06/12/23 - 07/12/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	06/12/23 - 07/12/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	06/12/23 - 07/12/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	06/12/23 - 07/12/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129662**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827018-1

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**Sample Number** 23129662-1  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	06/12/23 - 07/12/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	06/12/23 - 07/12/23	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	06/12/23 - 07/12/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	06/12/23 - 07/12/23	ug/m3	0.04	0.11	0.22	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	06/12/23 - 07/12/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	06/12/23 - 07/12/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	06/12/23 - 07/12/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	06/12/23 - 07/12/23	ug/m3	0.50	1.52	<1.52	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	06/12/23 - 07/12/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	06/12/23 - 07/12/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129662**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827018-1

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**Sample Number** 23129662-1  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	06/12/23 - 07/12/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	06/12/23 - 07/12/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	06/12/23 - 07/12/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	06/12/23 - 07/12/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	06/12/23 - 07/12/23	ug/m3	0.05	0.18	5.05	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	06/12/23 - 07/12/23	ug/m3	0.08	0.24	20.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	06/12/23 - 07/12/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	06/12/23 - 07/12/23	ug/m3	0.08	0.23	Not Detected	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	06/12/23 - 07/12/23	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	06/12/23 - 07/12/23	ug/m3	0.05	0.16	3.32	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	06/12/23 - 07/12/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129662**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827018-1

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**Sample Number** 23129662-1  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	06/12/23 - 07/12/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	06/12/23 - 07/12/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	06/12/23 - 07/12/23	ug/m3	0.06	0.19	0.39	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	06/12/23 - 07/12/23	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	06/12/23 - 07/12/23	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	06/12/23 - 07/12/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	06/12/23 - 07/12/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	06/12/23 - 07/12/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	06/12/23 - 07/12/23	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	06/12/23 - 07/12/23	ug/m3	0.30	1.03	3.80	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129662**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827018-1

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**Sample Number** : 23129662-1  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	06/12/23 - 07/12/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	06/12/23 - 07/12/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	06/12/23 - 07/12/23	ug/m3	0.60	1.72	<1.72	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	06/12/23 - 07/12/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	06/12/23 - 07/12/23	ug/m3	0.80	2.47	2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	06/12/23 - 07/12/23	ug/m3	0.06	0.17	5.21	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	06/12/23 - 07/12/23	ug/m3	0.30	0.94	7.80	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	06/12/23 - 07/12/23	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	06/12/23 - 07/12/23	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	06/12/23 - 07/12/23	ug/m3	0.60	1.76	3.03	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	06/12/23 - 07/12/23	ug/m3	0.40	1.15	3.03	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129662**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827018-1

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**Sample Number** 23129662-1  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	06/12/23 - 07/12/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	06/12/23 - 07/12/23	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	06/12/23 - 07/12/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	06/12/23 - 07/12/23	ug/m3	0.20	0.66	12.24	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	06/12/23 - 07/12/23	ug/m3	0.50	1.47	2.24	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	06/12/23 - 07/12/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	06/12/23 - 07/12/23	ug/m3	0.70	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	06/12/23 - 07/12/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	06/12/23 - 07/12/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	06/12/23 - 07/12/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	06/12/23 - 07/12/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129662**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827018-1

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**Sample Number** 23129662-1  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	06/12/23 - 07/12/23	ug/m3	0.50	1.48	5.78	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	06/12/23 - 07/12/23	ug/m3	0.50	1.19	1.28	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	06/12/23 - 07/12/23	ug/m3	0.30	0.86	7.26	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	06/12/23 - 07/12/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	06/12/23 - 07/12/23	ug/m3	0.11	0.34	<0.34	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	06/12/23 - 07/12/23	ug/m3	0.60	1.88	8.97	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	06/12/23 - 07/12/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	06/12/23 - 07/12/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	06/12/23 - 07/12/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	06/12/23 - 07/12/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	06/12/23 - 07/12/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129662**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827018-1

Page 8 of 8

**Sample Number** 23129662-1  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนเนินพยอม (หมู่บ้านนพเขต) (พิกัด 47P 0736529E, 1411273N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	06/12/23 - 07/12/23	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

Approved by

Dej Changchon  
Senior Manager

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**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370589**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688792-1

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**Sample Number** 2370589-1  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	03/07/23 - 04/07/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	03/07/23 - 04/07/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	03/07/23 - 04/07/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	03/07/23 - 04/07/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	03/07/23 - 04/07/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	03/07/23 - 04/07/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	03/07/23 - 04/07/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	03/07/23 - 04/07/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	03/07/23 - 04/07/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370589**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688792-1

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**Sample Number** : 2370589-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	03/07/23 - 04/07/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	03/07/23 - 04/07/23	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	03/07/23 - 04/07/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	03/07/23 - 04/07/23	ug/m3	0.04	0.11	0.22	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	03/07/23 - 04/07/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	03/07/23 - 04/07/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	03/07/23 - 04/07/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	03/07/23 - 04/07/23	ug/m3	0.50	1.52	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	03/07/23 - 04/07/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	03/07/23 - 04/07/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370589**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688792-1

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**Sample Number** : 2370589-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	03/07/23 - 04/07/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	03/07/23 - 04/07/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	03/07/23 - 04/07/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	03/07/23 - 04/07/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	03/07/23 - 04/07/23	ug/m3	0.05	0.18	0.79	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	03/07/23 - 04/07/23	ug/m3	0.08	0.24	4.56	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	03/07/23 - 04/07/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	03/07/23 - 04/07/23	ug/m3	0.08	0.23	Not Detected	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	03/07/23 - 04/07/23	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	03/07/23 - 04/07/23	ug/m3	0.05	0.16	1.34	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	03/07/23 - 04/07/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370589**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688792-1

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**Sample Number** : 2370589-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	03/07/23 - 04/07/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	03/07/23 - 04/07/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	03/07/23 - 04/07/23	ug/m3	0.06	0.19	0.31	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	03/07/23 - 04/07/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	03/07/23 - 04/07/23	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	03/07/23 - 04/07/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	03/07/23 - 04/07/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	03/07/23 - 04/07/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	03/07/23 - 04/07/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	03/07/23 - 04/07/23	ug/m3	0.30	1.03	1.12	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370589**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688792-1

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**Sample Number** 2370589-1  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	03/07/23 - 04/07/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	03/07/23 - 04/07/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	03/07/23 - 04/07/23	ug/m3	0.60	1.72	<1.72	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	03/07/23 - 04/07/23	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	03/07/23 - 04/07/23	ug/m3	0.80	2.47	<2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	03/07/23 - 04/07/23	ug/m3	0.06	0.17	0.28	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	03/07/23 - 04/07/23	ug/m3	0.30	0.94	3.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	03/07/23 - 04/07/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	03/07/23 - 04/07/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	03/07/23 - 04/07/23	ug/m3	0.60	1.76	3.52	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	03/07/23 - 04/07/23	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370589**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688792-1

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**Sample Number** 2370589-1  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	03/07/23 - 04/07/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	03/07/23 - 04/07/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	03/07/23 - 04/07/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	03/07/23 - 04/07/23	ug/m3	0.20	0.66	20.00	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	03/07/23 - 04/07/23	ug/m3	0.50	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	03/07/23 - 04/07/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	03/07/23 - 04/07/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	03/07/23 - 04/07/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	03/07/23 - 04/07/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	03/07/23 - 04/07/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	03/07/23 - 04/07/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370589**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688792-1

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**Sample Number** : 2370589-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	03/07/23 - 04/07/23	ug/m3	0.50	1.48	18.71	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	03/07/23 - 04/07/23	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	03/07/23 - 04/07/23	ug/m3	0.30	0.86	3.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	03/07/23 - 04/07/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	03/07/23 - 04/07/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	03/07/23 - 04/07/23	ug/m3	0.60	1.88	8.14	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	03/07/23 - 04/07/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	03/07/23 - 04/07/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	03/07/23 - 04/07/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	03/07/23 - 04/07/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	03/07/23 - 04/07/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370589**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688792-1

Page 8 of 8

**Sample Number** 2370589-1  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	03/07/23 - 04/07/23	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384935**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723837-1

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**Sample Number** 2384935-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	03/08/23 - 04/08/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	03/08/23 - 04/08/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	03/08/23 - 04/08/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	03/08/23 - 04/08/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	03/08/23 - 04/08/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	03/08/23 - 04/08/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	03/08/23 - 04/08/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	03/08/23 - 04/08/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	03/08/23 - 04/08/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2384935**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723837-1

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**Sample Number** : 2384935-1  
**Sampled Date** : Aug 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Aug 07, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	03/08/23 - 04/08/23	ug/m3	0.07	0.20	0.24	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	03/08/23 - 04/08/23	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	03/08/23 - 04/08/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	03/08/23 - 04/08/23	ug/m3	0.04	0.11	1.77	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	03/08/23 - 04/08/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	03/08/23 - 04/08/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	03/08/23 - 04/08/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	03/08/23 - 04/08/23	ug/m3	0.50	1.52	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	03/08/23 - 04/08/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	03/08/23 - 04/08/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384935**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723837-1

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**Sample Number** 2384935-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	03/08/23 - 04/08/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	03/08/23 - 04/08/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	03/08/23 - 04/08/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	03/08/23 - 04/08/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	03/08/23 - 04/08/23	ug/m3	0.05	0.18	2.16	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	03/08/23 - 04/08/23	ug/m3	0.08	0.24	2.99	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	03/08/23 - 04/08/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	03/08/23 - 04/08/23	ug/m3	0.08	0.23	Not Detected	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	03/08/23 - 04/08/23	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	03/08/23 - 04/08/23	ug/m3	0.05	0.16	5.05	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	03/08/23 - 04/08/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384935**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723837-1

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**Sample Number** 2384935-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	03/08/23 - 04/08/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	03/08/23 - 04/08/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	03/08/23 - 04/08/23	ug/m3	0.06	0.19	0.31	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	03/08/23 - 04/08/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	03/08/23 - 04/08/23	ug/m3	0.05	0.16	Not Detected	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	03/08/23 - 04/08/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	03/08/23 - 04/08/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	03/08/23 - 04/08/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	03/08/23 - 04/08/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	03/08/23 - 04/08/23	ug/m3	0.30	1.03	1.45	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
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**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384935**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723837-1

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**Sample Number** 2384935-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	03/08/23 - 04/08/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	03/08/23 - 04/08/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	03/08/23 - 04/08/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	03/08/23 - 04/08/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	03/08/23 - 04/08/23	ug/m3	0.80	2.47	2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	03/08/23 - 04/08/23	ug/m3	0.06	0.17	<0.17	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	03/08/23 - 04/08/23	ug/m3	0.30	0.94	2.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	03/08/23 - 04/08/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	03/08/23 - 04/08/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	03/08/23 - 04/08/23	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	03/08/23 - 04/08/23	ug/m3	0.40	1.15	3.99	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384935**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723837-1

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**Sample Number** 2384935-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	03/08/23 - 04/08/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	03/08/23 - 04/08/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	03/08/23 - 04/08/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	03/08/23 - 04/08/23	ug/m3	0.20	0.66	8.44	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	03/08/23 - 04/08/23	ug/m3	0.50	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	03/08/23 - 04/08/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	03/08/23 - 04/08/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	03/08/23 - 04/08/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	03/08/23 - 04/08/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	03/08/23 - 04/08/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	03/08/23 - 04/08/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384935**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723837-1

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**Sample Number** 2384935-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	03/08/23 - 04/08/23	ug/m3	0.50	1.48	<1.48	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	03/08/23 - 04/08/23	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	03/08/23 - 04/08/23	ug/m3	0.30	0.86	19.79	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	03/08/23 - 04/08/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	03/08/23 - 04/08/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	03/08/23 - 04/08/23	ug/m3	0.60	1.88	2.26	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	03/08/23 - 04/08/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	03/08/23 - 04/08/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	03/08/23 - 04/08/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	03/08/23 - 04/08/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	03/08/23 - 04/08/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384935**

Date Received : Aug 04, 2023  
Date Reported : Aug 11, 2023  
Report Number : 2723837-1

Page 8 of 8

**Sample Number** 2384935-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Aug 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	03/08/23 - 04/08/23	ug/m3	0.04	0.13	0.36	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2396483**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748455-1

Page 1 of 8

**Sample Number** : 2396483-1  
**Sampled Date** : Sep 04, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Sep 07, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	04/09/23 - 05/09/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	04/09/23 - 05/09/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	04/09/23 - 05/09/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	04/09/23 - 05/09/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	04/09/23 - 05/09/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	04/09/23 - 05/09/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	04/09/23 - 05/09/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	04/09/23 - 05/09/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	04/09/23 - 05/09/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396483**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748455-1

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**Sample Number** 2396483-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	04/09/23 - 05/09/23	ug/m3	0.07	0.20	0.40	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	04/09/23 - 05/09/23	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	04/09/23 - 05/09/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	04/09/23 - 05/09/23	ug/m3	0.04	0.11	2.57	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	04/09/23 - 05/09/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	04/09/23 - 05/09/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	04/09/23 - 05/09/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	04/09/23 - 05/09/23	ug/m3	0.50	1.52	5.46	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	04/09/23 - 05/09/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	04/09/23 - 05/09/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396483**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748455-1

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**Sample Number** 2396483-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	04/09/23 - 05/09/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	04/09/23 - 05/09/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	04/09/23 - 05/09/23	ug/m3	0.05	0.18	3.61	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	04/09/23 - 05/09/23	ug/m3	0.08	0.24	4.66	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	04/09/23 - 05/09/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	04/09/23 - 05/09/23	ug/m3	0.08	0.23	0.27	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	04/09/23 - 05/09/23	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	04/09/23 - 05/09/23	ug/m3	0.05	0.16	3.26	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	04/09/23 - 05/09/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396483**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748455-1

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**Sample Number** 2396483-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	04/09/23 - 05/09/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	04/09/23 - 05/09/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	04/09/23 - 05/09/23	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	04/09/23 - 05/09/23	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	04/09/23 - 05/09/23	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	04/09/23 - 05/09/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	04/09/23 - 05/09/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	04/09/23 - 05/09/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	04/09/23 - 05/09/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	04/09/23 - 05/09/23	ug/m3	0.30	1.03	1.07	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396483**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748455-1

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**Sample Number** 2396483-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	04/09/23 - 05/09/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	04/09/23 - 05/09/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	04/09/23 - 05/09/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	04/09/23 - 05/09/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	04/09/23 - 05/09/23	ug/m3	0.80	2.47	2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	04/09/23 - 05/09/23	ug/m3	0.06	0.17	0.42	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	04/09/23 - 05/09/23	ug/m3	0.30	0.94	1.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	04/09/23 - 05/09/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	04/09/23 - 05/09/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	04/09/23 - 05/09/23	ug/m3	0.60	1.76	2.33	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	04/09/23 - 05/09/23	ug/m3	0.40	1.15	5.09	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
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**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396483**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748455-1

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**Sample Number** 2396483-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	04/09/23 - 05/09/23	ug/m3	0.50	1.39	1.73	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	04/09/23 - 05/09/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	04/09/23 - 05/09/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	04/09/23 - 05/09/23	ug/m3	0.20	0.66	14.73	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	04/09/23 - 05/09/23	ug/m3	0.50	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	04/09/23 - 05/09/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	04/09/23 - 05/09/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	04/09/23 - 05/09/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	04/09/23 - 05/09/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	04/09/23 - 05/09/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	04/09/23 - 05/09/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

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**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396483**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748455-1

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**Sample Number** 2396483-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	04/09/23 - 05/09/23	ug/m3	0.50	1.48	2.18	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	04/09/23 - 05/09/23	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	04/09/23 - 05/09/23	ug/m3	0.30	0.86	19.59	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	04/09/23 - 05/09/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	04/09/23 - 05/09/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	04/09/23 - 05/09/23	ug/m3	0.60	1.88	2.04	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	04/09/23 - 05/09/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	04/09/23 - 05/09/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	04/09/23 - 05/09/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	04/09/23 - 05/09/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396483**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748455-1

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**Sample Number** 2396483-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	04/09/23 - 05/09/23	ug/m3	0.04	0.13	0.31	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Satcha Phetsawaeng

**Remark :**

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

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23111057**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785698-1

Page 1 of 8

**Sample Number** : 23111057-1  
**Sampled Date** : Oct 02, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Oct 04, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	02/10/23 - 03/10/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/10/23 - 03/10/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/10/23 - 03/10/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/10/23 - 03/10/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/10/23 - 03/10/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/10/23 - 03/10/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/10/23 - 03/10/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/10/23 - 03/10/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/10/23 - 03/10/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111057**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785698-1

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**Sample Number** 23111057-1  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	02/10/23 - 03/10/23	ug/m3	0.07	0.20	Not Detected	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/10/23 - 03/10/23	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/10/23 - 03/10/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/10/23 - 03/10/23	ug/m3	0.04	0.11	0.18	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	02/10/23 - 03/10/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/10/23 - 03/10/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/10/23 - 03/10/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/10/23 - 03/10/23	ug/m3	0.50	1.52	4.06	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	02/10/23 - 03/10/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	02/10/23 - 03/10/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111057**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785698-1

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**Sample Number** 23111057-1  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	02/10/23 - 03/10/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	02/10/23 - 03/10/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	02/10/23 - 03/10/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	02/10/23 - 03/10/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	02/10/23 - 03/10/23	ug/m3	0.05	0.18	1.73	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	02/10/23 - 03/10/23	ug/m3	0.08	0.24	6.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	02/10/23 - 03/10/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	02/10/23 - 03/10/23	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/10/23 - 03/10/23	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/10/23 - 03/10/23	ug/m3	0.05	0.16	0.83	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	02/10/23 - 03/10/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111057**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785698-1

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**Sample Number** 23111057-1  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	02/10/23 - 03/10/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	02/10/23 - 03/10/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	02/10/23 - 03/10/23	ug/m3	0.06	0.19	0.31	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	02/10/23 - 03/10/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/10/23 - 03/10/23	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/10/23 - 03/10/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	02/10/23 - 03/10/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	02/10/23 - 03/10/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	02/10/23 - 03/10/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/10/23 - 03/10/23	ug/m3	0.30	1.03	2.64	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
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**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111057**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785698-1

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**Sample Number** 23111057-1  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	02/10/23 - 03/10/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	02/10/23 - 03/10/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	02/10/23 - 03/10/23	ug/m3	0.60	1.72	<1.72	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	02/10/23 - 03/10/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	02/10/23 - 03/10/23	ug/m3	0.80	2.47	3.07	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	02/10/23 - 03/10/23	ug/m3	0.06	0.17	0.83	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	02/10/23 - 03/10/23	ug/m3	0.30	0.94	5.99	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	02/10/23 - 03/10/23	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	02/10/23 - 03/10/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	02/10/23 - 03/10/23	ug/m3	0.60	1.76	2.54	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	02/10/23 - 03/10/23	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111057**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785698-1

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**Sample Number** 23111057-1  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	02/10/23 - 03/10/23	ug/m3	0.50	1.39	2.73	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	02/10/23 - 03/10/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	02/10/23 - 03/10/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	02/10/23 - 03/10/23	ug/m3	0.20	0.66	7.26	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	02/10/23 - 03/10/23	ug/m3	0.50	1.47	1.71	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	02/10/23 - 03/10/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	02/10/23 - 03/10/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	02/10/23 - 03/10/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	02/10/23 - 03/10/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	02/10/23 - 03/10/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	02/10/23 - 03/10/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111057**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785698-1

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**Sample Number** 23111057-1  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	02/10/23 - 03/10/23	ug/m3	0.50	1.48	8.85	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	02/10/23 - 03/10/23	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/10/23 - 03/10/23	ug/m3	0.30	0.86	2.00	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	02/10/23 - 03/10/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	02/10/23 - 03/10/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	02/10/23 - 03/10/23	ug/m3	0.60	1.88	5.13	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	02/10/23 - 03/10/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	02/10/23 - 03/10/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	02/10/23 - 03/10/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/10/23 - 03/10/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	02/10/23 - 03/10/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111057**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785698-1

Page 8 of 8

**Sample Number** 23111057-1  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	02/10/23 - 03/10/23	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

Approved by

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
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**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123800**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815286-1

Page 1 of 8

**Sample Number** 23123800-1  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	01/11/23 - 02/11/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	01/11/23 - 02/11/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	01/11/23 - 02/11/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	01/11/23 - 02/11/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	01/11/23 - 02/11/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	01/11/23 - 02/11/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	01/11/23 - 02/11/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	01/11/23 - 02/11/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	01/11/23 - 02/11/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123800**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815286-1

Page 2 of 8

**Sample Number** : 23123800-1  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	01/11/23 - 02/11/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	01/11/23 - 02/11/23	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	01/11/23 - 02/11/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	01/11/23 - 02/11/23	ug/m3	0.04	0.11	0.13	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	01/11/23 - 02/11/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	01/11/23 - 02/11/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	01/11/23 - 02/11/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	01/11/23 - 02/11/23	ug/m3	0.50	1.52	2.85	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	01/11/23 - 02/11/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	01/11/23 - 02/11/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123800**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815286-1

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**Sample Number** 23123800-1  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	01/11/23 - 02/11/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	01/11/23 - 02/11/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	01/11/23 - 02/11/23	ug/m3	0.05	0.18	2.02	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	01/11/23 - 02/11/23	ug/m3	0.08	0.24	7.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	01/11/23 - 02/11/23	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	01/11/23 - 02/11/23	ug/m3	0.08	0.23	Not Detected	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	01/11/23 - 02/11/23	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	01/11/23 - 02/11/23	ug/m3	0.05	0.16	1.41	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	01/11/23 - 02/11/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123800**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815286-1

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**Sample Number** : 23123800-1  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	01/11/23 - 02/11/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	01/11/23 - 02/11/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	01/11/23 - 02/11/23	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	01/11/23 - 02/11/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	01/11/23 - 02/11/23	ug/m3	0.05	0.16	0.25	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	01/11/23 - 02/11/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	01/11/23 - 02/11/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	01/11/23 - 02/11/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	01/11/23 - 02/11/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	01/11/23 - 02/11/23	ug/m3	0.30	1.03	1.69	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123800**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815286-1

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**Sample Number** 23123800-1  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	01/11/23 - 02/11/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	01/11/23 - 02/11/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	01/11/23 - 02/11/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	01/11/23 - 02/11/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	01/11/23 - 02/11/23	ug/m3	0.80	2.47	<2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	01/11/23 - 02/11/23	ug/m3	0.06	0.17	1.25	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	01/11/23 - 02/11/23	ug/m3	0.30	0.94	2.68	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	01/11/23 - 02/11/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	01/11/23 - 02/11/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	01/11/23 - 02/11/23	ug/m3	0.60	1.76	4.93	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	01/11/23 - 02/11/23	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123800**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815286-1

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**Sample Number** 23123800-1  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	01/11/23 - 02/11/23	ug/m3	0.50	1.39	1.45	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	01/11/23 - 02/11/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	01/11/23 - 02/11/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	01/11/23 - 02/11/23	ug/m3	0.20	0.66	6.21	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	01/11/23 - 02/11/23	ug/m3	0.50	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	01/11/23 - 02/11/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	01/11/23 - 02/11/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	01/11/23 - 02/11/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	01/11/23 - 02/11/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	01/11/23 - 02/11/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	01/11/23 - 02/11/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123800**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815286-1

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**Sample Number** 23123800-1  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	01/11/23 - 02/11/23	ug/m3	0.50	1.48	45.62	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	01/11/23 - 02/11/23	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	01/11/23 - 02/11/23	ug/m3	0.30	0.86	2.93	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	01/11/23 - 02/11/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	01/11/23 - 02/11/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	01/11/23 - 02/11/23	ug/m3	0.60	1.88	2.56	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	01/11/23 - 02/11/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	01/11/23 - 02/11/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	01/11/23 - 02/11/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	01/11/23 - 02/11/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123800**

Date Received : Nov 02, 2023

Date Reported : Nov 07, 2023

Report Number : 2815286-1

Page 8 of 8

**Sample Number** 23123800-1  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	01/11/23 - 02/11/23	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129665**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827020-1

Page 1 of 8

**Sample Number** 23129665-1  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	06/12/23 - 07/12/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	06/12/23 - 07/12/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	06/12/23 - 07/12/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	06/12/23 - 07/12/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	06/12/23 - 07/12/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	06/12/23 - 07/12/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	06/12/23 - 07/12/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	06/12/23 - 07/12/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	06/12/23 - 07/12/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129665**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827020-1

Page 2 of 8

**Sample Number** : 23129665-1  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	06/12/23 - 07/12/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	06/12/23 - 07/12/23	ug/m3	0.08	0.23	0.28	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	06/12/23 - 07/12/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	06/12/23 - 07/12/23	ug/m3	0.04	0.11	0.18	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	06/12/23 - 07/12/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	06/12/23 - 07/12/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	06/12/23 - 07/12/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	06/12/23 - 07/12/23	ug/m3	0.50	1.52	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	06/12/23 - 07/12/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	06/12/23 - 07/12/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129665**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827020-1

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**Sample Number** 23129665-1  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	06/12/23 - 07/12/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	06/12/23 - 07/12/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	06/12/23 - 07/12/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	06/12/23 - 07/12/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	06/12/23 - 07/12/23	ug/m3	0.05	0.18	3.64	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	06/12/23 - 07/12/23	ug/m3	0.08	0.24	11.97	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	06/12/23 - 07/12/23	ug/m3	0.30	0.84	0.87	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	06/12/23 - 07/12/23	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	06/12/23 - 07/12/23	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	06/12/23 - 07/12/23	ug/m3	0.05	0.16	2.30	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	06/12/23 - 07/12/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129665**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827020-1

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**Sample Number** 23129665-1  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	06/12/23 - 07/12/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	06/12/23 - 07/12/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	06/12/23 - 07/12/23	ug/m3	0.06	0.19	0.31	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	06/12/23 - 07/12/23	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	06/12/23 - 07/12/23	ug/m3	0.05	0.16	0.25	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	06/12/23 - 07/12/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	06/12/23 - 07/12/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	06/12/23 - 07/12/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	06/12/23 - 07/12/23	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	06/12/23 - 07/12/23	ug/m3	0.30	1.03	2.07	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129665**

Date Received : Dec 07, 2023

Date Reported : Dec 14, 2023

Report Number : 2827020-1

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**Sample Number** : 23129665-1  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	06/12/23 - 07/12/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	06/12/23 - 07/12/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	06/12/23 - 07/12/23	ug/m3	0.60	1.72	1.93	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	06/12/23 - 07/12/23	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	06/12/23 - 07/12/23	ug/m3	0.80	2.47	2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	06/12/23 - 07/12/23	ug/m3	0.06	0.17	2.36	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	06/12/23 - 07/12/23	ug/m3	0.30	0.94	5.31	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	06/12/23 - 07/12/23	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	06/12/23 - 07/12/23	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	06/12/23 - 07/12/23	ug/m3	0.60	1.76	12.20	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	06/12/23 - 07/12/23	ug/m3	0.40	1.15	<1.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129665**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827020-1

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**Sample Number** : 23129665-1  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	06/12/23 - 07/12/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	06/12/23 - 07/12/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	06/12/23 - 07/12/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	06/12/23 - 07/12/23	ug/m3	0.20	0.66	12.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	06/12/23 - 07/12/23	ug/m3	0.50	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	06/12/23 - 07/12/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	06/12/23 - 07/12/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	06/12/23 - 07/12/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	06/12/23 - 07/12/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	06/12/23 - 07/12/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	06/12/23 - 07/12/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129665**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827020-1

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**Sample Number** 23129665-1  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	06/12/23 - 07/12/23	ug/m3	0.50	1.48	49.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	06/12/23 - 07/12/23	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	06/12/23 - 07/12/23	ug/m3	0.30	0.86	4.58	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	06/12/23 - 07/12/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	06/12/23 - 07/12/23	ug/m3	0.11	0.34	<0.34	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	06/12/23 - 07/12/23	ug/m3	0.60	1.88	2.71	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	06/12/23 - 07/12/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	06/12/23 - 07/12/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	06/12/23 - 07/12/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	06/12/23 - 07/12/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	06/12/23 - 07/12/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129665**

Date Received : Dec 07, 2023

Date Reported : Dec 14, 2023

Report Number : 2827020-1

Page 8 of 8

**Sample Number** : 23129665-1  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนบ้านบน (พิกัด 47P 0735259E , 1408966N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	06/12/23 - 07/12/23	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By** : Anurak Tongkhajonsakda

**Remark :**

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

Approved by

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Senior Manager

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**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370595**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688796-1

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**Sample Number** : 2370595-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	03/07/23 - 04/07/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	03/07/23 - 04/07/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	03/07/23 - 04/07/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	03/07/23 - 04/07/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	03/07/23 - 04/07/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	03/07/23 - 04/07/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	03/07/23 - 04/07/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	03/07/23 - 04/07/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	03/07/23 - 04/07/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370595**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688796-1

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**Sample Number** : 2370595-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	03/07/23 - 04/07/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	03/07/23 - 04/07/23	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	03/07/23 - 04/07/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	03/07/23 - 04/07/23	ug/m3	0.04	0.11	0.62	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	03/07/23 - 04/07/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	03/07/23 - 04/07/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	03/07/23 - 04/07/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	03/07/23 - 04/07/23	ug/m3	0.50	1.52	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	03/07/23 - 04/07/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	03/07/23 - 04/07/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370595**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688796-1

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**Sample Number** : 2370595-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	03/07/23 - 04/07/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	03/07/23 - 04/07/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	03/07/23 - 04/07/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	03/07/23 - 04/07/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	03/07/23 - 04/07/23	ug/m3	0.05	0.18	1.08	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	03/07/23 - 04/07/23	ug/m3	0.08	0.24	6.32	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	03/07/23 - 04/07/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	03/07/23 - 04/07/23	ug/m3	0.08	0.23	Not Detected	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	03/07/23 - 04/07/23	ug/m3	0.07	0.22	0.26	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	03/07/23 - 04/07/23	ug/m3	0.05	0.16	1.85	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	03/07/23 - 04/07/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370595**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688796-1

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**Sample Number** 2370595-1  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	03/07/23 - 04/07/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	03/07/23 - 04/07/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	03/07/23 - 04/07/23	ug/m3	0.06	0.19	0.23	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	03/07/23 - 04/07/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	03/07/23 - 04/07/23	ug/m3	0.05	0.16	1.06	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	03/07/23 - 04/07/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	03/07/23 - 04/07/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	03/07/23 - 04/07/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	03/07/23 - 04/07/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	03/07/23 - 04/07/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	03/07/23 - 04/07/23	ug/m3	0.30	1.03	1.20	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370595**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688796-1

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**Sample Number** : 2370595-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	03/07/23 - 04/07/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	03/07/23 - 04/07/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	03/07/23 - 04/07/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	03/07/23 - 04/07/23	ug/m3	0.50	1.43	<1.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	03/07/23 - 04/07/23	ug/m3	0.80	2.47	<2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	03/07/23 - 04/07/23	ug/m3	0.06	0.17	0.49	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	03/07/23 - 04/07/23	ug/m3	0.30	0.94	7.73	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	03/07/23 - 04/07/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	03/07/23 - 04/07/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	03/07/23 - 04/07/23	ug/m3	0.60	1.76	2.82	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	03/07/23 - 04/07/23	ug/m3	0.40	1.15	2.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370595**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688796-1

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**Sample Number** : 2370595-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	03/07/23 - 04/07/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	03/07/23 - 04/07/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	03/07/23 - 04/07/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	03/07/23 - 04/07/23	ug/m3	0.20	0.66	18.35	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	03/07/23 - 04/07/23	ug/m3	0.50	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	03/07/23 - 04/07/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	03/07/23 - 04/07/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	03/07/23 - 04/07/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	03/07/23 - 04/07/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	03/07/23 - 04/07/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	03/07/23 - 04/07/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2370595**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688796-1

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**Sample Number** : 2370595-1  
**Sampled Date** : Jul 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Jul 05, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	03/07/23 - 04/07/23	ug/m3	0.50	1.48	3.95	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	03/07/23 - 04/07/23	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	03/07/23 - 04/07/23	ug/m3	0.30	0.86	4.27	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	03/07/23 - 04/07/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	03/07/23 - 04/07/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	03/07/23 - 04/07/23	ug/m3	0.60	1.88	7.01	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	03/07/23 - 04/07/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	03/07/23 - 04/07/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	03/07/23 - 04/07/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	03/07/23 - 04/07/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	03/07/23 - 04/07/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2370595**

Date Received : Jul 04, 2023  
Date Reported : Jul 10, 2023  
Report Number : 2688796-1

Page 8 of 8

**Sample Number** 2370595-1  
**Sampled Date** Jul 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนนาบยา (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Jul 05, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	03/07/23 - 04/07/23	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384937**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723838-1

Page 1 of 8

**Sample Number** 2384937-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Aug 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	03/08/23 - 04/08/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	03/08/23 - 04/08/23	ug/m3	0.10	0.34	<0.34	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	03/08/23 - 04/08/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	03/08/23 - 04/08/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	03/08/23 - 04/08/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	03/08/23 - 04/08/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	03/08/23 - 04/08/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	03/08/23 - 04/08/23	ug/m3	0.10	0.38	<0.38	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	03/08/23 - 04/08/23	ug/m3	0.20	0.60	<0.60	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2384937**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723838-1

Page 2 of 8

**Sample Number** : 2384937-1  
**Sampled Date** : Aug 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Aug 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	03/08/23 - 04/08/23	ug/m3	0.07	0.20	0.32	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	03/08/23 - 04/08/23	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	03/08/23 - 04/08/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	03/08/23 - 04/08/23	ug/m3	0.04	0.11	1.24	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	03/08/23 - 04/08/23	ug/m3	0.20	0.60	<0.60	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	03/08/23 - 04/08/23	ug/m3	0.20	0.60	<0.60	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	03/08/23 - 04/08/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	03/08/23 - 04/08/23	ug/m3	0.50	1.52	2.06	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	03/08/23 - 04/08/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	03/08/23 - 04/08/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384937**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723838-1

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**Sample Number** 2384937-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Aug 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	03/08/23 - 04/08/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	03/08/23 - 04/08/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	03/08/23 - 04/08/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	03/08/23 - 04/08/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	03/08/23 - 04/08/23	ug/m3	0.05	0.18	3.25	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	03/08/23 - 04/08/23	ug/m3	0.08	0.24	5.04	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	03/08/23 - 04/08/23	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	03/08/23 - 04/08/23	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	03/08/23 - 04/08/23	ug/m3	0.07	0.22	0.30	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	03/08/23 - 04/08/23	ug/m3	0.05	0.16	3.20	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	03/08/23 - 04/08/23	ug/m3	0.17	0.52	<0.52	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2384937**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723838-1

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**Sample Number** : 2384937-1  
**Sampled Date** : Aug 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Aug 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	03/08/23 - 04/08/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	03/08/23 - 04/08/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	03/08/23 - 04/08/23	ug/m3	0.06	0.19	0.47	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	03/08/23 - 04/08/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	03/08/23 - 04/08/23	ug/m3	0.05	0.16	Not Detected	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	03/08/23 - 04/08/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	03/08/23 - 04/08/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	03/08/23 - 04/08/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	03/08/23 - 04/08/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	03/08/23 - 04/08/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	03/08/23 - 04/08/23	ug/m3	0.30	1.03	1.78	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2384937**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723838-1

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**Sample Number** : 2384937-1  
**Sampled Date** : Aug 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Aug 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	03/08/23 - 04/08/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	03/08/23 - 04/08/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	03/08/23 - 04/08/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	03/08/23 - 04/08/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	03/08/23 - 04/08/23	ug/m3	0.80	2.47	2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	03/08/23 - 04/08/23	ug/m3	0.06	0.17	0.21	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	03/08/23 - 04/08/23	ug/m3	0.30	0.94	3.24	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	03/08/23 - 04/08/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	03/08/23 - 04/08/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	03/08/23 - 04/08/23	ug/m3	0.60	1.76	2.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	03/08/23 - 04/08/23	ug/m3	0.40	1.15	2.94	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
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**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384937**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723838-1

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**Sample Number** 2384937-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Aug 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	03/08/23 - 04/08/23	ug/m3	0.50	1.39	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	03/08/23 - 04/08/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	03/08/23 - 04/08/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	03/08/23 - 04/08/23	ug/m3	0.20	0.66	9.46	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	03/08/23 - 04/08/23	ug/m3	0.50	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	03/08/23 - 04/08/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	03/08/23 - 04/08/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	03/08/23 - 04/08/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	03/08/23 - 04/08/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	03/08/23 - 04/08/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	03/08/23 - 04/08/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2384937**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723838-1

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**Sample Number** : 2384937-1  
**Sampled Date** : Aug 03, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Aug 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	03/08/23 - 04/08/23	ug/m3	0.50	1.48	<1.48	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	03/08/23 - 04/08/23	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	03/08/23 - 04/08/23	ug/m3	0.30	0.86	13.01	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	03/08/23 - 04/08/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	03/08/23 - 04/08/23	ug/m3	0.11	0.34	<0.34	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	03/08/23 - 04/08/23	ug/m3	0.60	1.88	2.56	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	03/08/23 - 04/08/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	03/08/23 - 04/08/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	03/08/23 - 04/08/23	ug/m3	0.09	0.27	<0.27	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	03/08/23 - 04/08/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	03/08/23 - 04/08/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2384937**

Date Received : Aug 04, 2023  
Date Reported : Aug 15, 2023  
Report Number : 2723838-1

Page 8 of 8

**Sample Number** 2384937-1  
**Sampled Date** Aug 03, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Aug 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	03/08/23 - 04/08/23	ug/m3	0.04	0.13	0.41	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396486**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748457-1

Page 1 of 8

**Sample Number** 2396486-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	04/09/23 - 05/09/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	04/09/23 - 05/09/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	04/09/23 - 05/09/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	04/09/23 - 05/09/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	04/09/23 - 05/09/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	04/09/23 - 05/09/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	04/09/23 - 05/09/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	04/09/23 - 05/09/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	04/09/23 - 05/09/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396486**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748457-1

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**Sample Number** 2396486-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	04/09/23 - 05/09/23	ug/m3	0.07	0.20	0.24	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	04/09/23 - 05/09/23	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	04/09/23 - 05/09/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	04/09/23 - 05/09/23	ug/m3	0.04	0.11	1.06	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	04/09/23 - 05/09/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	04/09/23 - 05/09/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	04/09/23 - 05/09/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	04/09/23 - 05/09/23	ug/m3	0.50	1.52	7.03	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	04/09/23 - 05/09/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	04/09/23 - 05/09/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2396486**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748457-1

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**Sample Number** : 2396486-1  
**Sampled Date** : Sep 04, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Sep 07, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	04/09/23 - 05/09/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	04/09/23 - 05/09/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	04/09/23 - 05/09/23	ug/m3	0.05	0.18	2.56	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	04/09/23 - 05/09/23	ug/m3	0.08	0.24	10.59	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	04/09/23 - 05/09/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	04/09/23 - 05/09/23	ug/m3	0.08	0.23	<0.23	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	04/09/23 - 05/09/23	ug/m3	0.07	0.22	<0.22	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	04/09/23 - 05/09/23	ug/m3	0.05	0.16	4.09	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	04/09/23 - 05/09/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396486**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748457-1

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**Sample Number** 2396486-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	04/09/23 - 05/09/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	04/09/23 - 05/09/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	04/09/23 - 05/09/23	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	04/09/23 - 05/09/23	ug/m3	0.49	1.47	1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	04/09/23 - 05/09/23	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	04/09/23 - 05/09/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	04/09/23 - 05/09/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	04/09/23 - 05/09/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	04/09/23 - 05/09/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	04/09/23 - 05/09/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	04/09/23 - 05/09/23	ug/m3	0.30	1.03	1.20	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2396486**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748457-1

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**Sample Number** : 2396486-1  
**Sampled Date** : Sep 04, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Sep 07, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	04/09/23 - 05/09/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	04/09/23 - 05/09/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	04/09/23 - 05/09/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	04/09/23 - 05/09/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	04/09/23 - 05/09/23	ug/m3	0.80	2.47	<2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	04/09/23 - 05/09/23	ug/m3	0.06	0.17	0.28	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	04/09/23 - 05/09/23	ug/m3	0.30	0.94	2.03	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	04/09/23 - 05/09/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	04/09/23 - 05/09/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	04/09/23 - 05/09/23	ug/m3	0.60	1.76	1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	04/09/23 - 05/09/23	ug/m3	0.40	1.15	3.53	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396486**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748457-1

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**Sample Number** 2396486-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	04/09/23 - 05/09/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	04/09/23 - 05/09/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	04/09/23 - 05/09/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	04/09/23 - 05/09/23	ug/m3	0.20	0.66	24.16	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	04/09/23 - 05/09/23	ug/m3	0.50	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	04/09/23 - 05/09/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	04/09/23 - 05/09/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	04/09/23 - 05/09/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	04/09/23 - 05/09/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	04/09/23 - 05/09/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	04/09/23 - 05/09/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 2396486**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748457-1

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**Sample Number** : 2396486-1  
**Sampled Date** : Sep 04, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Sep 07, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	04/09/23 - 05/09/23	ug/m3	0.50	1.48	1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	04/09/23 - 05/09/23	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	04/09/23 - 05/09/23	ug/m3	0.30	0.86	13.29	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	04/09/23 - 05/09/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	04/09/23 - 05/09/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	04/09/23 - 05/09/23	ug/m3	0.60	1.88	2.04	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	04/09/23 - 05/09/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	04/09/23 - 05/09/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	04/09/23 - 05/09/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	04/09/23 - 05/09/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	04/09/23 - 05/09/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 2396486**

Date Received : Sep 05, 2023  
Date Reported : Sep 14, 2023  
Report Number : 2748457-1

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**Sample Number** 2396486-1  
**Sampled Date** Sep 04, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Sep 07, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	04/09/23 - 05/09/23	ug/m3	0.04	0.13	0.15	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Satcha Phetsawaeng

**Remark :**

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

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Senior Manager



## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111059**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785701-1

Page 1 of 8

**Sample Number** 23111059-1  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบยา (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	02/10/23 - 03/10/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	02/10/23 - 03/10/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	02/10/23 - 03/10/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	02/10/23 - 03/10/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	02/10/23 - 03/10/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	02/10/23 - 03/10/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	02/10/23 - 03/10/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.46	<2.46	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	02/10/23 - 03/10/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	02/10/23 - 03/10/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23111059**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785701-1

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**Sample Number** : 23111059-1  
**Sampled Date** : Oct 02, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Oct 04, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	02/10/23 - 03/10/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	02/10/23 - 03/10/23	ug/m3	0.08	0.23	Not Detected	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	02/10/23 - 03/10/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	02/10/23 - 03/10/23	ug/m3	0.04	0.11	0.31	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	02/10/23 - 03/10/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	02/10/23 - 03/10/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	02/10/23 - 03/10/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	02/10/23 - 03/10/23	ug/m3	0.50	1.52	11.40	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	02/10/23 - 03/10/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	02/10/23 - 03/10/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111059**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785701-1

Page 3 of 8

**Sample Number** 23111059-1  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบยา (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	02/10/23 - 03/10/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	02/10/23 - 03/10/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	02/10/23 - 03/10/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	02/10/23 - 03/10/23	ug/m3	0.60	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	02/10/23 - 03/10/23	ug/m3	0.05	0.18	4.91	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	02/10/23 - 03/10/23	ug/m3	0.08	0.24	9.69	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	02/10/23 - 03/10/23	ug/m3	0.30	0.84	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	02/10/23 - 03/10/23	ug/m3	0.08	0.23	0.41	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	02/10/23 - 03/10/23	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	02/10/23 - 03/10/23	ug/m3	0.05	0.16	1.02	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	02/10/23 - 03/10/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23111059**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785701-1

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**Sample Number** : 23111059-1  
**Sampled Date** : Oct 02, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Oct 04, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	02/10/23 - 03/10/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	02/10/23 - 03/10/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	02/10/23 - 03/10/23	ug/m3	0.06	0.19	0.23	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	02/10/23 - 03/10/23	ug/m3	0.49	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	02/10/23 - 03/10/23	ug/m3	0.05	0.16	<0.16	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	02/10/23 - 03/10/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	02/10/23 - 03/10/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	02/10/23 - 03/10/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	02/10/23 - 03/10/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	02/10/23 - 03/10/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	02/10/23 - 03/10/23	ug/m3	0.30	1.03	2.44	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111059**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785701-1

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**Sample Number** 23111059-1  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	02/10/23 - 03/10/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	02/10/23 - 03/10/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	02/10/23 - 03/10/23	ug/m3	0.60	1.72	<1.72	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	02/10/23 - 03/10/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	02/10/23 - 03/10/23	ug/m3	0.80	2.47	3.07	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	02/10/23 - 03/10/23	ug/m3	0.06	0.17	1.11	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	02/10/23 - 03/10/23	ug/m3	0.30	0.94	18.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	02/10/23 - 03/10/23	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	02/10/23 - 03/10/23	ug/m3	0.60	2.05	4.18	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	02/10/23 - 03/10/23	ug/m3	0.60	1.76	3.60	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	02/10/23 - 03/10/23	ug/m3	0.40	1.15	1.24	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23111059**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785701-1

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**Sample Number** : 23111059-1  
**Sampled Date** : Oct 02, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Oct 04, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	02/10/23 - 03/10/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	02/10/23 - 03/10/23	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	02/10/23 - 03/10/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	02/10/23 - 03/10/23	ug/m3	0.20	0.66	10.54	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	02/10/23 - 03/10/23	ug/m3	0.50	1.47	2.48	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	02/10/23 - 03/10/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	02/10/23 - 03/10/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	02/10/23 - 03/10/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	02/10/23 - 03/10/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	02/10/23 - 03/10/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	02/10/23 - 03/10/23	ug/m3	0.50	1.76	<1.76	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23111059**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785701-1

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**Sample Number** : 23111059-1  
**Sampled Date** : Oct 02, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Oct 04, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	02/10/23 - 03/10/23	ug/m3	0.50	1.48	4.43	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	02/10/23 - 03/10/23	ug/m3	0.50	1.19	1.52	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	02/10/23 - 03/10/23	ug/m3	0.30	0.86	2.44	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	02/10/23 - 03/10/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	02/10/23 - 03/10/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	02/10/23 - 03/10/23	ug/m3	0.60	1.88	8.44	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	02/10/23 - 03/10/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	02/10/23 - 03/10/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	02/10/23 - 03/10/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	02/10/23 - 03/10/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	02/10/23 - 03/10/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23111059**

Date Received : Oct 03, 2023  
Date Reported : Oct 10, 2023  
Report Number : 2785701-1

Page 8 of 8

**Sample Number** 23111059-1  
**Sampled Date** Oct 02, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบยา (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Oct 04, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	02/10/23 - 03/10/23	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123801**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815301-1

Page 1 of 8

**Sample Number** : 23123801-1  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	01/11/23 - 02/11/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	01/11/23 - 02/11/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	01/11/23 - 02/11/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	01/11/23 - 02/11/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	01/11/23 - 02/11/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	01/11/23 - 02/11/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	01/11/23 - 02/11/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	01/11/23 - 02/11/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	01/11/23 - 02/11/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123801**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815301-1

Page 2 of 8

**Sample Number** : 23123801-1  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	01/11/23 - 02/11/23	ug/m3	0.07	0.20	<0.20	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	01/11/23 - 02/11/23	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	01/11/23 - 02/11/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	01/11/23 - 02/11/23	ug/m3	0.04	0.11	0.13	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	01/11/23 - 02/11/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	01/11/23 - 02/11/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	01/11/23 - 02/11/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	01/11/23 - 02/11/23	ug/m3	0.50	1.52	<1.52	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	01/11/23 - 02/11/23	ug/m3	0.40	1.23	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	01/11/23 - 02/11/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123801**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815301-1

Page 3 of 8

**Sample Number** : 23123801-1  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	01/11/23 - 02/11/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	01/11/23 - 02/11/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	01/11/23 - 02/11/23	ug/m3	0.05	0.18	2.60	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	01/11/23 - 02/11/23	ug/m3	0.08	0.24	8.69	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	01/11/23 - 02/11/23	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	01/11/23 - 02/11/23	ug/m3	0.08	0.23	Not Detected	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	01/11/23 - 02/11/23	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	01/11/23 - 02/11/23	ug/m3	0.05	0.16	0.77	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	01/11/23 - 02/11/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123801**

Date Received : Nov 02, 2023

Date Reported : Nov 07, 2023

Report Number : 2815301-1

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**Sample Number** : 23123801-1  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบยา (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	01/11/23 - 02/11/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	01/11/23 - 02/11/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	01/11/23 - 02/11/23	ug/m3	0.06	0.19	<0.19	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	01/11/23 - 02/11/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	01/11/23 - 02/11/23	ug/m3	0.05	0.16	0.25	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	01/11/23 - 02/11/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	01/11/23 - 02/11/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	01/11/23 - 02/11/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	01/11/23 - 02/11/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	01/11/23 - 02/11/23	ug/m3	0.08	0.24	<0.24	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	01/11/23 - 02/11/23	ug/m3	0.30	1.03	1.65	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123801**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815301-1

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**Sample Number** : 23123801-1  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	01/11/23 - 02/11/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	01/11/23 - 02/11/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	01/11/23 - 02/11/23	ug/m3	0.60	1.72	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	01/11/23 - 02/11/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	01/11/23 - 02/11/23	ug/m3	0.80	2.47	<2.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	01/11/23 - 02/11/23	ug/m3	0.06	0.17	1.53	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	01/11/23 - 02/11/23	ug/m3	0.30	0.94	5.13	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	01/11/23 - 02/11/23	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	01/11/23 - 02/11/23	ug/m3	0.60	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	01/11/23 - 02/11/23	ug/m3	0.40	1.15	1.51	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123801**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815301-1

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**Sample Number** : 23123801-1  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	01/11/23 - 02/11/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	01/11/23 - 02/11/23	ug/m3	1.50	4.34	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	01/11/23 - 02/11/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	01/11/23 - 02/11/23	ug/m3	0.20	0.66	6.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	01/11/23 - 02/11/23	ug/m3	0.50	1.47	<1.47	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	01/11/23 - 02/11/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	01/11/23 - 02/11/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	01/11/23 - 02/11/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	01/11/23 - 02/11/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	01/11/23 - 02/11/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	01/11/23 - 02/11/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23123801**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815301-1

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**Sample Number** : 23123801-1  
**Sampled Date** : Nov 01, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Nov 03, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	01/11/23 - 02/11/23	ug/m3	0.50	1.48	4.07	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	01/11/23 - 02/11/23	ug/m3	0.50	1.19	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	01/11/23 - 02/11/23	ug/m3	0.30	0.86	2.75	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	01/11/23 - 02/11/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	01/11/23 - 02/11/23	ug/m3	0.11	0.34	Not Detected	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	01/11/23 - 02/11/23	ug/m3	0.60	1.88	3.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	01/11/23 - 02/11/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	01/11/23 - 02/11/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	01/11/23 - 02/11/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	01/11/23 - 02/11/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	01/11/23 - 02/11/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23123801**

Date Received : Nov 02, 2023  
Date Reported : Nov 07, 2023  
Report Number : 2815301-1

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**Sample Number** 23123801-1  
**Sampled Date** Nov 01, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนนาบยา (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Nov 03, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	01/11/23 - 02/11/23	ug/m3	0.04	0.13	Not Detected	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By :** Anurak Tongkhajonsakda

**Remark :**

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

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129668**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827024-1

Page 1 of 8

**Sample Number** : 23129668-1  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,1,1-Trichloroethane	06/12/23 - 07/12/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2,2-Tetrachloroethane	06/12/23 - 07/12/23	ug/m3	0.10	0.34	Not Detected	83	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,1,2-Trichloro-1,2,2-Trifluoroethane	06/12/23 - 07/12/23	ug/m3	1.00	3.83	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1,2-Trichloroethane	06/12/23 - 07/12/23	ug/m3	0.90	2.73	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethane	06/12/23 - 07/12/23	ug/m3	0.70	2.02	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,1-Dichloroethene	06/12/23 - 07/12/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,3-Trimethylbenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trichlorobenzene	06/12/23 - 07/12/23	ug/m3	1.20	3.71	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2,4-Trimethylbenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,2-Dibromoethane	06/12/23 - 07/12/23	ug/m3	0.10	0.38	Not Detected	370	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorobenzene	06/12/23 - 07/12/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

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Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129668**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827024-1

Page 2 of 8

**Sample Number** : 23129668-1  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
1,2-Dichloroethane	06/12/23 - 07/12/23	ug/m3	0.07	0.20	0.24	48	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichloropropane	06/12/23 - 07/12/23	ug/m3	0.08	0.23	<0.23	82	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,2-Dichlorotetrafluoroethane	06/12/23 - 07/12/23	ug/m3	1.20	3.50	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3,5-Trimethylbenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.46	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,3-Butadiene	06/12/23 - 07/12/23	ug/m3	0.04	0.11	0.27	5.3	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,3-Dichlorobenzene	06/12/23 - 07/12/23	ug/m3	0.20	0.60	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1,4-Dichlorobenzene	06/12/23 - 07/12/23	ug/m3	0.20	0.60	Not Detected	1100	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1,4-Dioxane	06/12/23 - 07/12/23	ug/m3	0.10	0.36	Not Detected	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
1-Butanol	06/12/23 - 07/12/23	ug/m3	0.50	1.52	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
1-Propanol	06/12/23 - 07/12/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Hexanone	06/12/23 - 07/12/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

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Senior Manager

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## Analysis / Test Report

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88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129668**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827024-1

Page 3 of 8

**Sample Number** : 23129668-1  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
2-Pentanone	06/12/23 - 07/12/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
2-Propanol	06/12/23 - 07/12/23	ug/m3	0.40	1.23	<1.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Hexanone	06/12/23 - 07/12/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
3-Pentanone	06/12/23 - 07/12/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetaldehyde	06/12/23 - 07/12/23	ug/m3	0.05	0.18	3.64	860	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acetone	06/12/23 - 07/12/23	ug/m3	0.08	0.24	13.40	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acetonitrile	06/12/23 - 07/12/23	ug/m3	0.30	0.84	<0.84	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Acrolein	06/12/23 - 07/12/23	ug/m3	0.08	0.23	Not Detected	0.55	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Acrylonitrile	06/12/23 - 07/12/23	ug/m3	0.07	0.22	Not Detected	10	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzene	06/12/23 - 07/12/23	ug/m3	0.05	0.16	1.73	7.6	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Benzyl Chloride	06/12/23 - 07/12/23	ug/m3	0.17	0.52	Not Detected	12	Based on US EPA Compendium Method, TO-15	PCD	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129668**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827024-1

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**Sample Number** : 23129668-1  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Bromodichloromethane	06/12/23 - 07/12/23	ug/m3	1.00	3.35	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromoform	06/12/23 - 07/12/23	ug/m3	1.00	5.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Bromomethane	06/12/23 - 07/12/23	ug/m3	0.06	0.19	0.31	190	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Butanal	06/12/23 - 07/12/23	ug/m3	0.49	1.47	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Carbon Disulfide	06/12/23 - 07/12/23	ug/m3	0.05	0.16	0.19	100	Based on US EPA Compendium Method, TO-15	NEB	Rayong
Carbon Tetrachloride	06/12/23 - 07/12/23	ug/m3	0.10	0.31	<0.31	150	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chlorobenzene	06/12/23 - 07/12/23	ug/m3	0.80	2.30	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chlorodifluoromethane (HCFC-22)	06/12/23 - 07/12/23	ug/m3	0.60	1.77	<1.77	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroethane	06/12/23 - 07/12/23	ug/m3	0.40	1.32	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Chloroform	06/12/23 - 07/12/23	ug/m3	0.08	0.24	0.29	57	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Chloromethane	06/12/23 - 07/12/23	ug/m3	0.30	1.03	2.23	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129668**

Date Received : Dec 07, 2023

Date Reported : Dec 14, 2023

Report Number : 2827024-1

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**Sample Number** : 23129668-1  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบยา (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
cis-1,2-Dichloroethene	06/12/23 - 07/12/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
cis-1,3-Dichloropropene	06/12/23 - 07/12/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclohexane	06/12/23 - 07/12/23	ug/m3	0.60	1.72	<1.72	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Cyclopentane	06/12/23 - 07/12/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichlorodifluoromethane (CFC-112)	06/12/23 - 07/12/23	ug/m3	0.80	2.47	2.57	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Dichloromethane	06/12/23 - 07/12/23	ug/m3	0.06	0.17	2.36	210	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Ethanol	06/12/23 - 07/12/23	ug/m3	0.30	0.94	11.15	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Ethyl Benzene	06/12/23 - 07/12/23	ug/m3	0.70	2.17	<2.17	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexanal	06/12/23 - 07/12/23	ug/m3	0.60	2.05	<2.05	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Hexane	06/12/23 - 07/12/23	ug/m3	0.60	1.76	2.68	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Isobutene	06/12/23 - 07/12/23	ug/m3	0.40	1.15	3.08	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129668**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827024-1

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**Sample Number** : 23129668-1  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Isoprene	06/12/23 - 07/12/23	ug/m3	0.50	1.39	<1.39	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
m,p-Xylene	06/12/23 - 07/12/23	ug/m3	1.50	4.34	<4.34	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methacrolein	06/12/23 - 07/12/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methanol	06/12/23 - 07/12/23	ug/m3	0.20	0.66	10.04	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Ethyl Ketone	06/12/23 - 07/12/23	ug/m3	0.50	1.47	5.31	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Iodide	06/12/23 - 07/12/23	ug/m3	0.90	2.90	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Isobutyl Ketone	06/12/23 - 07/12/23	ug/m3	0.70	2.05	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl tert butyl ether	06/12/23 - 07/12/23	ug/m3	0.60	1.80	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Methyl Vinyl Ketone	06/12/23 - 07/12/23	ug/m3	0.50	1.43	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
o-Xylene	06/12/23 - 07/12/23	ug/m3	0.70	2.17	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Pentanal	06/12/23 - 07/12/23	ug/m3	0.50	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O :** PMM-23-22  
**Project Name :** EIA Monitoring  
**Project Location :**

**Lot ID: 23129668**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827024-1

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**Sample Number** 23129668-1  
**Sampled Date** Dec 06, 2023  
**Sample Description** Air Quality  
**Location** ชุมชนมาบยา (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** Dec 08, 2023  
**Condition of Sample** Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Pentane	06/12/23 - 07/12/23	ug/m3	0.50	1.48	3.42	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propanal	06/12/23 - 07/12/23	ug/m3	0.50	1.19	<1.19	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Propene (Propylene)	06/12/23 - 07/12/23	ug/m3	0.30	0.86	6.82	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Styrene	06/12/23 - 07/12/23	ug/m3	0.70	2.13	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Tetrachloroethylene	06/12/23 - 07/12/23	ug/m3	0.11	0.34	<0.34	400	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Toluene	06/12/23 - 07/12/23	ug/m3	0.60	1.88	6.71	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,2-Dichloroethene	06/12/23 - 07/12/23	ug/m3	0.70	1.98	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
trans-1,3-Dichloropropene	06/12/23 - 07/12/23	ug/m3	0.80	2.27	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Trichloroethylene	06/12/23 - 07/12/23	ug/m3	0.09	0.27	Not Detected	130	Based on US EPA Compendium Method, TO-15	PCD	Rayong
Trichlorofluoromethane (F-11)	06/12/23 - 07/12/23	ug/m3	0.90	2.81	<2.81	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong
Vinyl Acetate	06/12/23 - 07/12/23	ug/m3	0.60	1.76	Not Detected	No Standard	Based on US EPA Compendium Method, TO-15	-	Rayong

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client** : RIL 1996 Co., Ltd.  
88, Rayong Highway 3191 Road, Maptaphut, Mueang, Rayong Thailand 31000  
**P/O** : PMM-23-22  
**Project Name** : EIA Monitoring  
**Project Location** :

**Lot ID: 23129668**

Date Received : Dec 07, 2023  
Date Reported : Dec 14, 2023  
Report Number : 2827024-1

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**Sample Number** : 23129668-1  
**Sampled Date** : Dec 06, 2023  
**Sample Description** : Air Quality  
**Location** : ชุมชนมาบตาพุด (พิกัด 47P 0735680E, 1408469N)  
**Date Analysis Commenced** : Dec 08, 2023  
**Condition of Sample** : Drawn into one 6-L Canister

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Vinyl Chloride	06/12/23 - 07/12/23	ug/m3	0.04	0.13	<0.13	20	Based on US EPA Compendium Method, TO-15	PCD	Rayong

**Guideline :**

NEB : Notification of National Environment Board, B.E. 2560 (2017)

PCD : Notification of the Pollution Control Department, which was published in the Royal Government Gazette Vol. 126 Special Part 13 D dated January 27, B.E. 2552 (2009).

**Sampled By** : Anurak Tongkhajonsakda

**Remark :**

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

Approved by

Dej Changchon  
Senior Manager

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ภาคผนวก ง.2-2

ใบรับรองผลการตรวจวัดคุณภาพอากาศจากแหล่งกำเนิด



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800  
239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2100-H1
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 21/11/2023
RECEIVED DATE	: 28/11/2023	ANALYTICAL DATE	: 06/12/2023-11/01/2024
REPORT DATE	: 11/01/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2100-H1	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas
STACK DESCRIPTION			

Height	: 62.50	m	Gas Velocity	: 3.3	m/s
Diameter	: 2.49	m	Flow rate <sup>1/</sup>	: 548	Ncu.m/min
Temperature	: 191.3	°C	Excess Oxygen	: 3.8	%
Moisture	: 11.1	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		3.8%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	11.48	9.34	0.275	209	11.151	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	16.21	13.19	0.278	59	2.278	US EPA Method 7E

  
(Miss Katesarin Vorradeewittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team

- Remark :** 1. Reported analysis refers to submitted sample only.  
2. This report shall not be reproduced, except in full, without official approval.  
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. <sup>2/</sup> The assigned value in EIA report (B.E.2558).  
5. - Not available.



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800  
239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th


STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2100-H1
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 21/11/2023
RECEIVED DATE	: 24/11/2023	ANALYTICAL DATE	: 28/11/2023
REPORT DATE	: 06/12/2023	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2100-H1	SITE OPERATOR	: Mr. Pisanu Seenampeng
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas
STACK DESCRIPTION			

Height	: 62.50	m	Gas Velocity	: 3.3	m/s
Diameter	: 2.49	m	Flow rate <sup>1/</sup>	: 548	Ncu.m/min
Temperature	: 191.3	°C	Excess Oxygen	: 3.8	%
Moisture	: 11.1	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		3.8%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	17.80	14.49	0.293	-	-	US EPA Method 25A

  
(Miss Sudaporn Soonthorn)  
Analyst

  
(Miss Narisa Poowasanpetch)  
Technical Management Team

- Remark :** 1. Reported analysis refers to submitted sample only.  
2. This report shall not be reproduced, except in full, without official approval.  
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. - Not available.

**The Monitoring Result of Emission Concentration  
2100 - H1**

**PTT Global Chemical Public Company Limited  
November 21, 2023**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	3.90	3.91	16.09	16.08	13.16
2	3.78	3.79	16.27	16.26	13.21
3	3.76	3.77	16.29	16.29	13.22
<b>Average</b>	<b>3.81</b>	<b>3.82</b>	<b>16.22</b>	<b>16.21</b>	<b>13.19</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	3.90	3.91	10.94	10.90	8.92
2	3.78	3.79	11.80	11.76	9.55
3	3.76	3.77	11.81	11.78	9.56
<b>Average</b>	<b>3.81</b>	<b>3.82</b>	<b>11.52</b>	<b>11.48</b>	<b>9.34</b>

**PTT Global Chemical Public Company Limited  
EMISSION TEST RESULT**

Date: November 21, 2023  
 Start time: 10:30 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: Teledyne 200 EM  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Run # : 1  
 Location : 2100 - H1  
 Finish time : 10:50 AM  
 Serial No.: 161212-14  
 Serial No.: 435  
 Serial No.: 058  
 Test Operator : Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:30 AM	3.97	16.08	10.54
10:31 AM	3.78	16.02	10.82
10:32 AM	3.91	15.98	11.04
10:33 AM	3.85	15.99	11.26
10:34 AM	3.92	16.04	11.04
10:35 AM	3.94	16.04	10.20
10:36 AM	4.03	15.98	10.35
10:37 AM	3.89	16.02	10.50
10:38 AM	4.03	16.23	10.64
10:39 AM	3.93	16.34	10.85
10:40 AM	4.01	16.22	10.92
10:41 AM	3.95	16.15	10.94
10:42 AM	4.00	16.26	11.09
10:43 AM	3.90	16.32	11.10
10:44 AM	3.80	16.20	11.15
10:45 AM	3.84	16.02	11.16
10:46 AM	3.89	16.00	11.22
10:47 AM	3.80	15.99	11.24
10:48 AM	3.77	15.99	11.28
10:49 AM	3.74	15.97	11.24
10:50 AM	3.87	15.98	11.20
<b>Average</b>	<b>3.90</b>	<b>16.09</b>	<b>10.94</b>

Signature \_\_\_\_\_

( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Run # : 2**  
**Date:** November 21, 2023  
**Start time:** 10:51 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** Teledyne 200 EM  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas  
**Location :** 2100 - H1  
**Finish time :** 11:11 AM  
**Serial No.:** 161212-14  
**Serial No.:** 435  
**Serial No.:** 058  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:51 AM	3.79	16.03	11.40
10:52 AM	3.64	16.16	11.45
10:53 AM	3.83	16.30	11.61
10:54 AM	3.76	16.33	11.64
10:55 AM	3.84	16.19	11.65
10:56 AM	3.80	16.09	11.69
10:57 AM	3.73	16.14	11.73
10:58 AM	3.77	16.18	11.77
10:59 AM	3.84	16.24	11.85
11:00 AM	3.88	16.36	11.91
11:01 AM	3.83	16.33	11.92
11:02 AM	3.84	16.28	11.96
11:03 AM	3.87	16.25	11.89
11:04 AM	3.76	16.43	11.94
11:05 AM	3.89	16.39	11.86
11:06 AM	3.78	16.24	11.90
11:07 AM	3.58	16.18	11.94
11:08 AM	3.73	16.28	11.94
11:09 AM	3.74	16.38	11.87
11:10 AM	3.83	16.46	11.91
11:11 AM	3.74	16.41	11.88
<b>Average</b>	3.78	16.27	11.80

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Run # : 3**  
**Date:** November 21, 2023  
**Start time:** 11:12 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** Teledyne 200 EM  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas  
**Location :** 2100 - H1  
**Finish time :** 11:32 AM  
**Serial No.:** 161212-14  
**Serial No.:** 435  
**Serial No.:** 058  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:12 AM	3.85	16.30	11.97
11:13 AM	3.90	16.32	11.85
11:14 AM	3.86	16.47	11.95
11:15 AM	3.84	16.51	11.91
11:16 AM	3.87	16.37	12.03
11:17 AM	3.94	16.22	11.88
11:18 AM	3.86	16.27	11.78
11:19 AM	3.89	16.49	11.81
11:20 AM	3.72	16.58	11.72
11:21 AM	3.68	16.53	11.71
11:22 AM	3.62	16.22	11.69
11:23 AM	3.66	16.11	11.63
11:24 AM	3.80	16.21	11.67
11:25 AM	3.77	16.34	11.71
11:26 AM	3.64	16.38	11.74
11:27 AM	3.70	16.21	11.76
11:28 AM	3.65	16.08	11.79
11:29 AM	3.69	16.09	11.82
11:30 AM	3.59	16.14	11.82
11:31 AM	3.70	16.18	11.88
11:32 AM	3.80	16.07	11.84
<b>Average</b>	3.76	16.29	11.81

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND  
TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2150-H1/2
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 24/11/2023
RECEIVED DATE	: 28/11/2023	ANALYTICAL DATE	: 06/12/2023-11/01/2024
REPORT DATE	: 11/01/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2150-H1/2	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 65.00	m	Gas Velocity	: 5.5	m/s
Diameter	: 2.10	m	Flow rate <sup>1/</sup>	: 651	Ncu.m/min
Temperature	: 196.3	°C	Excess Oxygen	: 4.5	%
Moisture	: 10.6	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		4.5%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	8.40	7.11	0.239	98	3.288	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	5.09	4.31	0.104	57	1.364	US EPA Method 7E

(Miss Katesarin Vorradeewittaya)

Environmental Scientist

(Miss Preeda Somjai)

Technical Management Team

- Remark : 1. Reported analysis refers to submitted sample only.
2. This report shall not be reproduced, except in full, without official approval.
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
4. <sup>2/</sup> The assigned value in EIA report (B.E.2558).
5. - Not available.



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2150-H1/2
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 24/11/2023
RECEIVED DATE	: 27/11/2023	ANALYTICAL DATE	: 29/11/2023
REPORT DATE	: 06/12/2023	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2150-H1/2	SITE OPERATOR	: Mr. Supakit Tamooka
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 65.00	m	Gas Velocity	: 5.5	m/s
Diameter	: 2.10	m	Flow rate <sup>1/</sup>	: 651	Ncu.m/min
Temperature	: 196.3	°C	Excess Oxygen	: 4.5	%
Moisture	: 10.6	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		4.5%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	45.33	38.36	0.886	-	-	US EPA Method 25A

(Miss Sudaporn Soonthorn)

Analyst

(Miss Narisa Poowasanpetch)

Technical Management Team

- Remark : 1. Reported analysis refers to submitted sample only.
2. This report shall not be reproduced, except in full, without official approval.
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
4. - Not available.



**The Monitoring Result of Emission Concentration  
2150 - H1/2**

**PTT Global Chemical Public Company Limited  
November 24, 2023**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.52	4.47	5.67	5.62	4.75
2	4.49	4.45	4.89	4.85	4.10
3	4.53	4.50	4.84	4.81	4.08
<b>Average</b>	<b>4.51</b>	<b>4.47</b>	<b>5.13</b>	<b>5.09</b>	<b>4.31</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.52	4.47	8.79	8.77	7.42
2	4.49	4.45	8.25	8.23	6.95
3	4.53	4.50	8.22	8.20	6.95
<b>Average</b>	<b>4.51</b>	<b>4.47</b>	<b>8.42</b>	<b>8.40</b>	<b>7.11</b>

**PTT Global Chemical Public Company Limited  
EMISSION TEST RESULT**

**Date:** November 24, 2023  
**Start time:** 10:30 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** TELEDYNE 200 EM  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Run # :** 1  
**Location :** 2150 - H1/2  
**Finish time :** 10:50 AM  
**Serial No.:** 071023-47  
**Serial No.:** 433  
**Serial No.:** 118  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:30 AM	4.55	5.86	8.81
10:31 AM	4.50	5.77	8.94
10:32 AM	4.49	5.79	9.01
10:33 AM	4.53	5.92	9.10
10:34 AM	4.46	5.97	9.20
10:35 AM	4.39	5.86	9.25
10:36 AM	4.45	5.71	9.16
10:37 AM	4.43	5.70	9.22
10:38 AM	4.47	5.67	9.23
10:39 AM	4.45	5.63	9.35
10:40 AM	4.41	5.73	9.33
10:41 AM	4.50	5.71	9.29
10:42 AM	4.63	5.73	8.97
10:43 AM	4.67	5.78	8.49
10:44 AM	4.59	5.72	8.29
10:45 AM	4.68	5.68	8.17
10:46 AM	4.59	5.62	8.12
10:47 AM	4.57	5.51	8.13
10:48 AM	4.48	5.33	8.17
10:49 AM	4.49	5.18	8.19
10:50 AM	4.49	5.21	8.19
<b>Average</b>	<b>4.52</b>	<b>5.67</b>	<b>8.79</b>

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

## PTT Global Chemical Public Company Limited EMISSION TEST RESULT

**Date:** November 24, 2023  
**Start time:** 10:51 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** TELEDYNE 200 EM  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Run # : 2**  
**Location :** 2150 - H1/2  
**Finish time :** 11:11 AM  
**Serial No.:** 071023-47  
**Serial No.:** 433  
**Serial No.:** 118  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:51 AM	4.46	5.24	8.21
10:52 AM	4.50	5.21	8.16
10:53 AM	4.45	5.16	8.23
10:54 AM	4.54	5.12	8.22
10:55 AM	4.60	5.09	8.24
10:56 AM	4.38	5.06	8.29
10:57 AM	4.52	4.96	8.31
10:58 AM	4.63	4.89	8.26
10:59 AM	4.55	4.85	8.29
11:00 AM	4.51	4.81	8.31
11:01 AM	4.56	4.85	8.31
11:02 AM	4.53	4.87	8.31
11:03 AM	4.52	4.88	8.30
11:04 AM	4.48	4.85	8.23
11:05 AM	4.41	4.80	8.23
11:06 AM	4.37	4.74	8.24
11:07 AM	4.38	4.70	8.25
11:08 AM	4.49	4.76	8.27
11:09 AM	4.52	4.67	8.21
11:10 AM	4.47	4.62	8.19
11:11 AM	4.44	4.57	8.23
Average	4.49	4.89	8.25

Signature 

( Miss Katesarin Vorradetwittaya )

Environmental Scientist

## PTT Global Chemical Public Company Limited EMISSION TEST RESULT

**Date:** November 24, 2023  
**Start time:** 11:12 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** TELEDYNE 200 EM  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Run # : 3**  
**Location :** 2150 - H1/2  
**Finish time :** 11:32 AM  
**Serial No.:** 071023-47  
**Serial No.:** 433  
**Serial No.:** 118  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:12 AM	4.44	4.56	8.25
11:13 AM	4.46	4.58	8.20
11:14 AM	4.46	4.69	8.20
11:15 AM	4.43	4.79	8.17
11:16 AM	4.48	4.83	8.19
11:17 AM	4.53	4.83	8.20
11:18 AM	4.56	4.85	8.17
11:19 AM	4.56	4.85	8.16
11:20 AM	4.51	4.92	8.17
11:21 AM	4.53	4.96	8.19
11:22 AM	4.60	4.91	8.25
11:23 AM	4.59	4.84	8.26
11:24 AM	4.60	4.84	8.17
11:25 AM	4.65	4.85	8.22
11:26 AM	4.70	4.87	8.27
11:27 AM	4.59	4.93	8.24
11:28 AM	4.52	4.95	8.23
11:29 AM	4.42	4.89	8.27
11:30 AM	4.49	4.90	8.24
11:31 AM	4.50	4.91	8.27
11:32 AM	4.49	4.94	8.29
Average	4.53	4.84	8.22

Signature 

( Miss Katesarin Vorradetwittaya )

Environmental Scientist



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2200-H1/2/3/4
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 20/11/2023
RECEIVED DATE	: 28/11/2023	ANALYTICAL DATE	: 06/12/2023-11/01/2024
REPORT DATE	: 11/01/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2200-H1/2/3/4	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 100.00 m	Gas Velocity	: 7.0 m/s
Diameter	: 3.90 m	Flow rate <sup>1/</sup>	: 2,795 Ncu.m/min
Temperature	: 200.5 °C	Excess Oxygen	: 5.4 %
Moisture	: 11.1 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		5.4%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	8.56	7.66	1.045	102	16.704	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	19.82	17.73	1.737	58	6.858	US EPA Method 7E

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team

- Remark :** 1. Reported analysis refers to submitted sample only.  
2. This report shall not be reproduced, except in full, without official approval.  
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. <sup>2/</sup> The assigned value in EIA report (B.E.2558).  
5. - Not available.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2200-H1/2/3/4
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 20/11/2023
RECEIVED DATE	: 21/11/2023	ANALYTICAL DATE	: 22/11/2023
REPORT DATE	: 06/12/2023	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2200-H1/2/3/4	SITE OPERATOR	: Mr. Supakit Tamooka
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 100.00 m	Gas Velocity	: 7.0 m/s
Diameter	: 3.90 m	Flow rate <sup>1/</sup>	: 2,795 Ncu.m/min
Temperature	: 200.5 °C	Excess Oxygen	: 5.4 %
Moisture	: 11.1 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		5.4%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	4.37	3.91	0.367	-	-	US EPA Method 25A

  
(Miss Sudaporn Soonthorn)  
Analyst

  
(Miss Narisa Poowasanpetch)  
Technical Management Team

- Remark :** 1. Reported analysis refers to submitted sample only.  
2. This report shall not be reproduced, except in full, without official approval.  
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. - Not available.

**The Monitoring Result of Emission Concentration  
2200 - H1/2/3/4**

**PTT Global Chemical Public Company Limited  
November 20, 2023**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.42	5.38	19.45	19.45	17.42
2	5.43	5.39	20.04	20.04	17.96
3	5.36	5.31	19.97	19.97	17.81
<b>Average</b>	<b>5.40</b>	<b>5.36</b>	<b>19.82</b>	<b>19.82</b>	<b>17.73</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.42	5.38	8.62	8.60	7.70
2	5.43	5.39	8.60	8.58	7.69
3	5.36	5.31	8.53	8.51	7.59
<b>Average</b>	<b>5.40</b>	<b>5.36</b>	<b>8.58</b>	<b>8.56</b>	<b>7.66</b>

**PTT Global Chemical Public Company Limited  
EMISSION TEST RESULT**

<b>Date:</b>	November 20, 2023	<b>Run # :</b>	1
<b>Start time:</b>	11:30 AM	<b>Location :</b>	2200 - H1/2/3/4
<b>O<sub>2</sub> instrument Model:</b>	AMI 70	<b>Finish time :</b>	11:50 AM
<b>NO<sub>x</sub> instrument Model:</b>	Teledyne 200 EM	<b>Serial No.:</b>	071023-47
<b>SO<sub>2</sub> instrument Model:</b>	API 100 AH	<b>Serial No.:</b>	433
<b>Fuel Type :</b>	Fuel Gas	<b>Serial No.:</b>	118
		<b>Test Operator :</b>	Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:30 AM	5.42	19.80	8.69
11:31 AM	5.43	19.96	8.82
11:32 AM	5.42	19.99	8.74
11:33 AM	5.39	19.77	8.68
11:34 AM	5.34	19.63	8.74
11:35 AM	5.44	19.67	8.72
11:36 AM	5.55	19.15	8.71
11:37 AM	5.50	19.29	8.37
11:38 AM	5.41	19.56	8.64
11:39 AM	5.41	19.53	8.61
11:40 AM	5.39	19.23	8.34
11:41 AM	5.47	19.10	8.61
11:42 AM	5.50	19.13	8.61
11:43 AM	5.44	19.30	8.29
11:44 AM	5.36	19.42	8.73
11:45 AM	5.35	19.35	8.39
11:46 AM	5.43	19.32	8.83
11:47 AM	5.41	19.33	8.79
11:48 AM	5.32	19.26	8.76
11:49 AM	5.39	19.24	8.42
11:50 AM	5.45	19.47	8.47
<b>Average</b>	<b>5.42</b>	<b>19.45</b>	<b>8.62</b>

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Date:** November 20, 2023  
**Start time:** 11:51 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** Teledyne 200 EM  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Run # : 2**  
**Location :** 2200 - H1/2/3/4  
**Finish time :** 12:11 PM  
**Serial No.:** 071023-47  
**Serial No.:** 433  
**Serial No.:** 118  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:51 AM	5.51	20.00	8.79
11:52 AM	5.42	20.37	8.65
11:53 AM	5.39	20.26	8.73
11:54 AM	5.43	20.09	8.63
11:55 AM	5.51	20.11	8.59
11:56 AM	5.51	20.13	8.68
11:57 AM	5.41	20.11	8.84
11:58 AM	5.41	20.04	8.68
11:59 AM	5.36	20.04	8.59
12:00 PM	5.34	20.03	8.12
12:01 PM	5.31	19.99	8.64
12:02 PM	5.46	19.97	8.28
12:03 PM	5.37	19.95	8.62
12:04 PM	5.43	19.88	8.62
12:05 PM	5.41	19.77	8.40
12:06 PM	5.46	19.82	8.49
12:07 PM	5.51	20.00	8.65
12:08 PM	5.49	20.05	8.63
12:09 PM	5.44	20.08	8.67
12:10 PM	5.43	20.08	8.66
12:11 PM	5.38	20.10	8.69
<b>Average</b>	5.43	20.04	8.60

Signature

( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Date:** November 20, 2023  
**Start time:** 12:12 PM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** Teledyne 200 EM  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Run # : 3**  
**Location :** 2200 - H1/2/3/4  
**Finish time :** 12:32 PM  
**Serial No.:** 071023-47  
**Serial No.:** 433  
**Serial No.:** 118  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
12:12 PM	5.37	20.20	8.11
12:13 PM	5.30	20.14	8.19
12:14 PM	5.32	20.08	8.19
12:15 PM	5.25	20.05	8.18
12:16 PM	5.26	19.93	8.30
12:17 PM	5.26	19.96	8.38
12:18 PM	5.28	20.03	8.48
12:19 PM	5.32	20.01	8.48
12:20 PM	5.42	19.98	8.50
12:21 PM	5.43	20.03	8.64
12:22 PM	5.36	19.95	8.76
12:23 PM	5.19	19.80	8.80
12:24 PM	5.35	19.66	8.68
12:25 PM	5.42	19.52	8.78
12:26 PM	5.46	19.66	8.83
12:27 PM	5.51	20.05	8.85
12:28 PM	5.39	20.15	8.84
12:29 PM	5.38	20.04	8.96
12:30 PM	5.38	19.97	8.91
12:31 PM	5.45	19.99	8.01
12:32 PM	5.39	20.18	8.36
<b>Average</b>	5.36	19.97	8.53

Signature

( Miss Katesarin Vorradetwittaya )

Environmental Scientist



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SECOT CO., LTD.

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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2320-H1
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 22/11/2023
RECEIVED DATE	: 28/11/2023	ANALYTICAL DATE	: 06/12/2023-11/01/2024
REPORT DATE	: 11/01/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2320-H1	SITE OPERATOR	: Mr. Kittipong Thakoengsuk
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 56.94	m	Gas Velocity	: 5.9	m/s
Diameter	: 2.10	m	Flow rate <sup>1/</sup>	: 601	Ncu.m/min
Temperature	: 249.9	°C	Excess Oxygen	: 8.3	%
Moisture	: 13.1	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		8.3%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	5.42	5.96	0.142	117	3.382	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	35.53	39.08	0.669	69	1.440	US EPA Method 7E

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team

- Remark : 1. Reported analysis refers to submitted sample only.
2. This report shall not be reproduced, except in full, without official approval.
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
4. <sup>2/</sup> The assigned value in EIA report (B.E.2558).
5. - Not available.



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2320-H1
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 22/11/2023
RECEIVED DATE	: 24/11/2023	ANALYTICAL DATE	: 28/11/2023
REPORT DATE	: 06/12/2023	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2320-H1	SITE OPERATOR	: Mr. Sittichai Sawangwongchai
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 56.94	m	Gas Velocity	: 5.9	m/s
Diameter	: 2.10	m	Flow rate <sup>1/</sup>	: 601	Ncu.m/min
Temperature	: 249.9	°C	Excess Oxygen	: 8.3	%
Moisture	: 13.1	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		8.3%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	16.47	18.11	0.297	-	-	US EPA Method 25A

  
(Miss Sudaporn Soonthorn)  
Analyst

  
(Miss Narisa Poowasanpetch)  
Technical Management Team

- Remark : 1. Reported analysis refers to submitted sample only.
2. This report shall not be reproduced, except in full, without official approval.
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
4. - Not available.

**The Monitoring Result of Emission Concentration  
2320 - H1**

**PTT Global Chemical Public Company Limited  
November 22, 2023**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	8.23	8.27	35.34	35.39	38.95
2	8.23	8.26	35.43	35.48	39.02
3	8.23	8.25	35.68	35.73	39.26
<b>Average</b>	<b>8.23</b>	<b>8.26</b>	<b>35.48</b>	<b>35.53</b>	<b>39.08</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	8.23	8.27	5.29	5.27	5.80
2	8.23	8.26	5.49	5.46	6.00
3	8.23	8.25	5.57	5.54	6.09
<b>Average</b>	<b>8.23</b>	<b>8.26</b>	<b>5.45</b>	<b>5.42</b>	<b>5.96</b>

**PTT Global Chemical Public Company Limited  
EMISSION TEST RESULT**

**Date:** November 22, 2023  
**Start time:** 10:30 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** API 200 AH  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Run # :** 1  
**Location :** 2320 - H1  
**Finish time :** 10:50 AM  
**Serial No.:** 111117-2  
**Serial No.:** 441  
**Serial No.:** 118  
**Test Operator :** Kittipong T.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:30 AM	8.15	35.13	5.06
10:31 AM	8.27	35.23	5.01
10:32 AM	8.29	35.20	5.06
10:33 AM	8.24	35.25	5.19
10:34 AM	8.27	35.34	5.26
10:35 AM	8.24	35.36	5.20
10:36 AM	8.18	35.47	5.22
10:37 AM	8.19	35.46	5.25
10:38 AM	8.22	35.33	5.33
10:39 AM	8.19	35.37	5.37
10:40 AM	8.12	35.48	5.30
10:41 AM	8.22	35.47	5.32
10:42 AM	8.31	35.32	5.25
10:43 AM	8.28	35.32	5.30
10:44 AM	8.21	35.36	5.29
10:45 AM	8.15	35.45	5.38
10:46 AM	8.18	35.46	5.48
10:47 AM	8.20	35.32	5.46
10:48 AM	8.23	35.28	5.48
10:49 AM	8.30	35.28	5.46
10:50 AM	8.32	35.29	5.46
<b>Average</b>	<b>8.23</b>	<b>35.34</b>	<b>5.29</b>

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist



**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Date:** November 22, 2023  
**Start time:** 10:51 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** API 200 AH  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Run # : 2**  
**Location :** 2320 - H1  
**Finish time :** 11:11 AM  
**Serial No.:** 111117-2  
**Serial No.:** 441  
**Serial No.:** 118  
**Test Operator :** Kittipong T.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:51 AM	8.33	35.32	5.38
10:52 AM	8.35	35.33	5.44
10:53 AM	8.35	35.24	5.36
10:54 AM	8.35	35.08	5.40
10:55 AM	8.28	35.10	5.36
10:56 AM	8.12	35.45	5.46
10:57 AM	8.15	35.62	5.49
10:58 AM	8.19	35.55	5.46
10:59 AM	8.18	35.53	5.57
11:00 AM	8.22	35.50	5.48
11:01 AM	8.28	35.36	5.46
11:02 AM	8.26	35.34	5.53
11:03 AM	8.26	35.39	5.53
11:04 AM	8.31	35.40	5.45
11:05 AM	8.16	35.51	5.45
11:06 AM	8.08	35.67	5.49
11:07 AM	8.17	35.67	5.66
11:08 AM	8.18	35.51	5.54
11:09 AM	8.26	35.45	5.48
11:10 AM	8.23	35.49	5.63
11:11 AM	8.17	35.45	5.71
<b>Average</b>	8.23	35.43	5.49

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Date:** November 22, 2023  
**Start time:** 11:12 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** API 200 AH  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Run # : 3**  
**Location :** 2320 - H1  
**Finish time :** 11:32 AM  
**Serial No.:** 111117-2  
**Serial No.:** 441  
**Serial No.:** 118  
**Test Operator :** Kittipong T.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:12 AM	8.15	35.43	5.67
11:13 AM	8.14	35.46	5.61
11:14 AM	8.11	35.58	5.55
11:15 AM	8.12	35.68	5.59
11:16 AM	8.19	35.58	5.54
11:17 AM	8.12	35.57	5.56
11:18 AM	8.11	35.76	5.56
11:19 AM	8.17	35.84	5.66
11:20 AM	8.25	35.92	5.69
11:21 AM	8.27	35.95	5.57
11:22 AM	8.32	35.76	5.52
11:23 AM	8.34	35.68	5.53
11:24 AM	8.33	35.69	5.52
11:25 AM	8.30	35.71	5.63
11:26 AM	8.30	35.71	5.49
11:27 AM	8.26	35.72	5.58
11:28 AM	8.28	35.71	5.64
11:29 AM	8.29	35.68	5.49
11:30 AM	8.28	35.65	5.49
11:31 AM	8.29	35.61	5.53
11:32 AM	8.26	35.66	5.54
<b>Average</b>	8.23	35.68	5.57

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist





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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2380-H1/H2A/H2B
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 23/11/2023
RECEIVED DATE	: 28/11/2023	ANALYTICAL DATE	: 06/12/2023-11/01/2024
REPORT DATE	: 11/01/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2380-H1/H2A/H2B	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 63.36 m	Gas Velocity	: 7.3 m/s
Diameter	: 3.01 m	Flow rate <sup>1/</sup>	: 1,843 Ncu.m/min
Temperature	: 168.8 °C	Excess Oxygen	: 5.5 %
Moisture	: 12.4 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		5.5%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	6.93	6.26	0.558	117	10.335	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	24.66	22.28	1.425	65	4.102	US EPA Method 7E

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Preeda Somjai)  
Technical Management Team

- Remark :** 1. Reported analysis refers to submitted sample only.
2. This report shall not be reproduced, except in full, without official approval.
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
4. <sup>2/</sup> The assigned value in EIA report (B.E.2558).
5. - Not available.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2380-H1/H2A/H2B
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 23/11/2023
RECEIVED DATE	: 24/11/2023	ANALYTICAL DATE	: 28/11/2023
REPORT DATE	: 06/12/2023	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2380-H1/H2A/H2B	SITE OPERATOR	: Mr. Sittichai Sawangwongchai
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 63.36 m	Gas Velocity	: 7.3 m/s
Diameter	: 3.01 m	Flow rate <sup>1/</sup>	: 1,843 Ncu.m/min
Temperature	: 168.8 °C	Excess Oxygen	: 5.5 %
Moisture	: 12.4 %		

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		5.5%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	1.64	1.48	0.091	-	-	US EPA Method 25A

  
(Miss Sudaporn Soonthorn)  
Analyst

  
(Miss Narisa Poowasanpetch)  
Technical Management Team

- Remark :** 1. Reported analysis refers to submitted sample only.
2. This report shall not be reproduced, except in full, without official approval.
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.
4. - Not available.

**The Monitoring Result of Emission Concentration  
2380 - H1/2**

**PTT Global Chemical Public Company Limited  
November 23, 2023**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.63	5.55	24.80	24.81	22.47
2	5.54	5.46	24.25	24.26	21.84
3	5.62	5.54	24.90	24.91	22.54
<b>Average</b>	<b>5.60</b>	<b>5.52</b>	<b>24.65</b>	<b>24.66</b>	<b>22.28</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	5.63	5.55	6.95	6.92	6.27
2	5.54	5.46	6.98	6.96	6.27
3	5.62	5.54	6.93	6.91	6.25
<b>Average</b>	<b>5.60</b>	<b>5.52</b>	<b>6.95</b>	<b>6.93</b>	<b>6.26</b>

**PTT Global Chemical Public Company Limited  
EMISSION TEST RESULT**

<b>Date:</b>	November 23, 2023	<b>Run # :</b>	1
<b>Start time:</b>	10:40 AM	<b>Location :</b>	2380 - H1/2
<b>O<sub>2</sub> instrument Model:</b>	AMI 70	<b>Finish time :</b>	11:00 AM
<b>NO<sub>x</sub> instrument Model:</b>	API 200 AH	<b>Serial No.:</b>	111117-2
<b>SO<sub>2</sub> instrument Model:</b>	API 100 AH	<b>Serial No.:</b>	441
<b>Fuel Type :</b>	Fuel Gas	<b>Serial No.:</b>	060
		<b>Test Operator :</b>	Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:40 AM	5.54	25.07	6.91
10:41 AM	5.62	24.94	6.89
10:42 AM	5.60	24.81	6.94
10:43 AM	5.59	24.98	6.93
10:44 AM	5.61	25.02	7.03
10:45 AM	5.70	24.65	7.21
10:46 AM	5.66	24.85	6.85
10:47 AM	5.68	24.65	7.11
10:48 AM	5.66	25.31	7.11
10:49 AM	5.70	25.71	7.16
10:50 AM	5.70	24.68	7.23
10:51 AM	5.65	24.64	6.72
10:52 AM	5.68	24.84	6.94
10:53 AM	5.65	24.62	6.72
10:54 AM	5.57	25.19	6.95
10:55 AM	5.56	24.74	6.91
10:56 AM	5.63	24.49	6.85
10:57 AM	5.65	24.51	6.90
10:58 AM	5.64	24.53	6.95
10:59 AM	5.59	24.29	6.86
11:00 AM	5.55	24.35	6.83
<b>Average</b>	<b>5.63</b>	<b>24.80</b>	<b>6.95</b>

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

## PTT Global Chemical Public Company Limited

### EMISSION TEST RESULT

**Date:** November 23, 2023  
**Start time:** 11:01 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** API 200 AH  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Run # : 2**  
**Location :** 2380 - H1/2  
**Finish time :** 11:21 AM  
**Serial No.:** 111117-2  
**Serial No.:** 441  
**Serial No.:** 060  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:01 AM	5.48	24.48	7.24
11:02 AM	5.56	24.29	6.69
11:03 AM	5.56	24.35	7.10
11:04 AM	5.53	24.47	6.86
11:05 AM	5.56	24.31	7.26
11:06 AM	5.56	24.05	7.47
11:07 AM	5.57	23.78	6.91
11:08 AM	5.50	24.23	6.95
11:09 AM	5.49	24.10	7.21
11:10 AM	5.59	24.17	7.11
11:11 AM	5.51	24.39	6.96
11:12 AM	5.55	24.35	6.81
11:13 AM	5.62	24.18	6.75
11:14 AM	5.47	24.22	6.73
11:15 AM	5.54	24.19	6.77
11:16 AM	5.61	24.28	6.88
11:17 AM	5.58	24.30	6.93
11:18 AM	5.56	24.24	6.97
11:19 AM	5.44	24.31	6.96
11:20 AM	5.49	24.37	7.01
11:21 AM	5.59	24.28	7.06
<b>Average</b>	5.54	24.25	6.98

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

## PTT Global Chemical Public Company Limited

### EMISSION TEST RESULT

**Date:** November 23, 2023  
**Start time:** 11:22 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** API 200 AH  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Run # : 3**  
**Location :** 2380 - H1/2  
**Finish time :** 11:42 AM  
**Serial No.:** 111117-2  
**Serial No.:** 441  
**Serial No.:** 060  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:22 AM	5.56	24.38	7.18
11:23 AM	5.55	24.29	7.30
11:24 AM	5.61	24.31	7.20
11:25 AM	5.58	24.40	7.24
11:26 AM	5.61	24.39	7.33
11:27 AM	5.74	24.31	7.38
11:28 AM	5.59	24.47	7.16
11:29 AM	5.66	24.35	6.84
11:30 AM	5.55	24.51	6.48
11:31 AM	5.62	24.71	6.54
11:32 AM	5.57	24.91	6.73
11:33 AM	5.68	25.02	6.85
11:34 AM	5.58	25.10	6.93
11:35 AM	5.65	25.11	6.93
11:36 AM	5.67	25.29	6.88
11:37 AM	5.54	25.42	6.84
11:38 AM	5.62	25.50	6.76
11:39 AM	5.50	25.60	6.74
11:40 AM	5.67	25.44	6.75
11:41 AM	5.71	25.62	6.75
11:42 AM	5.76	25.83	6.71
<b>Average</b>	5.62	24.90	6.93

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist



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TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2440-H1
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 23/11/2023
RECEIVED DATE	: 28/11/2023	ANALYTICAL DATE	: 06/12/2023-11/01/2024
REPORT DATE	: 11/01/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H1	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 46.79	m	Gas Velocity	: 8.5	m/s
Diameter	: 2.32	m	Flow rate <sup>1/</sup>	: 1,257	Ncu.m/min
Temperature	: 168.4	°C	Excess Oxygen	: 4.5	%
Moisture	: 12.9	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		4.5%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	8.09	6.86	0.444	211	11.226	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	29.37	24.90	1.158	67	2.579	US EPA Method 7E

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

- Remark : 1. Reported analysis refers to submitted sample only.  
2. This report shall not be reproduced, except in full, without official approval.  
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. <sup>2/</sup> The assigned value in EIA report (B.E.2558).  
5. - Not available.



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2440-H1
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 23/11/2023
RECEIVED DATE	: 24/11/2023	ANALYTICAL DATE	: 28/11/2023
REPORT DATE	: 06/12/2023	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H1	SITE OPERATOR	: Mr. Sittichai Sawangwongchai
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 46.79	m	Gas Velocity	: 8.5	m/s
Diameter	: 2.32	m	Flow rate <sup>1/</sup>	: 1,257	Ncu.m/min
Temperature	: 168.4	°C	Excess Oxygen	: 4.5	%
Moisture	: 12.9	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		4.5%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	1.14	0.97	0.043	-	-	US EPA Method 25A

(Miss Sudaporn Soonthorn)  
Analyst

(Miss Narisa Poowasanetch)  
Technical Management Team

- Remark : 1. Reported analysis refers to submitted sample only.  
2. This report shall not be reproduced, except in full, without official approval.  
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. - Not available.

**The Monitoring Result of Emission Concentration  
2440 - H1**

**PTT Global Chemical Public Company Limited  
November 23, 2023**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.55	4.50	29.32	29.34	24.87
2	4.55	4.50	29.41	29.43	24.94
3	4.54	4.50	29.34	29.35	24.88
<b>Average</b>	<b>4.54</b>	<b>4.50</b>	<b>29.36</b>	<b>29.37</b>	<b>24.90</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.55	4.50	7.75	7.73	6.55
2	4.55	4.50	8.28	8.27	7.01
3	4.54	4.50	8.29	8.28	7.02
<b>Average</b>	<b>4.54</b>	<b>4.50</b>	<b>8.11</b>	<b>8.09</b>	<b>6.86</b>

**PTT Global Chemical Public Company Limited  
EMISSION TEST RESULT**

<b>Date:</b>	November 23, 2023	<b>Run # :</b>	1
<b>Start time:</b>	10:40 AM	<b>Location :</b>	2440 - H1
<b>O<sub>2</sub> instrument Model:</b>	AMI 70	<b>Finish time :</b>	11:00 AM
<b>NO<sub>x</sub> instrument Model:</b>	Teledyne 200 EM	<b>Serial No.:</b>	071023-47
<b>SO<sub>2</sub> instrument Model:</b>	API 100 AH	<b>Serial No.:</b>	433
<b>Fuel Type :</b>	Fuel Gas	<b>Serial No.:</b>	118
		<b>Test Operator :</b>	Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:40 AM	4.49	28.88	8.56
10:41 AM	4.42	29.13	8.69
10:42 AM	4.46	29.47	8.58
10:43 AM	4.49	29.52	8.41
10:44 AM	4.42	28.98	6.58
10:45 AM	4.53	28.85	7.04
10:46 AM	4.61	29.21	7.19
10:47 AM	4.55	29.38	7.32
10:48 AM	4.55	29.31	7.35
10:49 AM	4.58	29.14	7.65
10:50 AM	4.61	29.07	7.68
10:51 AM	4.57	29.27	7.73
10:52 AM	4.61	29.55	7.93
10:53 AM	4.59	29.46	7.88
10:54 AM	4.52	29.72	7.77
10:55 AM	4.63	29.46	7.30
10:56 AM	4.61	29.17	7.40
10:57 AM	4.60	28.95	7.78
10:58 AM	4.59	29.71	7.77
10:59 AM	4.55	29.68	7.95
11:00 AM	4.50	29.84	8.18
<b>Average</b>	<b>4.55</b>	<b>29.32</b>	<b>7.75</b>

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Run # : 2**

**Date:** November 23, 2023  
**Start time:** 11:01 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** Teledyne 200 EM  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Location :** 2440 - H1  
**Finish time :** 11:21 AM  
**Serial No.:** 071023-47  
**Serial No.:** 433  
**Serial No.:** 118  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:01 AM	4.54	29.78	7.68
11:02 AM	4.58	29.39	8.23
11:03 AM	4.57	29.65	8.20
11:04 AM	4.50	29.39	8.26
11:05 AM	4.60	29.13	8.34
11:06 AM	4.67	29.13	8.64
11:07 AM	4.52	29.29	8.41
11:08 AM	4.50	29.31	8.13
11:09 AM	4.59	29.17	8.25
11:10 AM	4.51	29.22	8.30
11:11 AM	4.54	29.22	8.29
11:12 AM	4.59	29.41	8.46
11:13 AM	4.55	29.74	8.30
11:14 AM	4.53	29.59	8.33
11:15 AM	4.55	29.33	8.38
11:16 AM	4.64	29.51	8.34
11:17 AM	4.51	29.77	8.32
11:18 AM	4.51	29.58	8.22
11:19 AM	4.43	29.26	8.24
11:20 AM	4.53	29.36	8.18
11:21 AM	4.58	29.41	8.33
<b>Average</b>	4.55	29.41	8.28

Signature 

( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Run # : 3**

**Date:** November 23, 2023  
**Start time:** 11:22 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** Teledyne 200 EM  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Location :** 2440 - H1  
**Finish time :** 11:42 AM  
**Serial No.:** 071023-47  
**Serial No.:** 433  
**Serial No.:** 118  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:22 AM	4.54	29.17	8.33
11:23 AM	4.59	29.19	8.43
11:24 AM	4.59	29.25	8.31
11:25 AM	4.52	29.29	8.39
11:26 AM	4.67	29.28	8.40
11:27 AM	4.54	29.25	8.24
11:28 AM	4.51	29.32	8.15
11:29 AM	4.61	29.31	8.13
11:30 AM	4.54	29.73	8.32
11:31 AM	4.62	30.04	8.33
11:32 AM	4.48	29.93	8.16
11:33 AM	4.56	29.71	8.20
11:34 AM	4.45	29.21	8.37
11:35 AM	4.50	28.96	8.13
11:36 AM	4.51	28.96	8.37
11:37 AM	4.52	29.16	8.27
11:38 AM	4.45	29.48	8.33
11:39 AM	4.50	29.47	8.25
11:40 AM	4.50	29.17	8.35
11:41 AM	4.54	29.01	8.34
11:42 AM	4.53	29.18	8.38
<b>Average</b>	4.54	29.34	8.29

Signature 

( Miss Katesarin Vorradetwittaya )

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2440-H2A
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 22/11/2023
RECEIVED DATE	: 28/11/2023	ANALYTICAL DATE	: 06/12/2023-11/01/2024
REPORT DATE	: 11/01/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H2A	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 60.20	m	Gas Velocity	: 7.8	m/s
Diameter	: 3.11	m	Flow rate <sup>1/</sup>	: 2,115	Ncu.m/min
Temperature	: 174.0	°C	Excess Oxygen	: 4.3	%
Moisture	: 10.3	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		4.3%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	7.67	6.41	0.708	223	19.767	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	28.15	23.54	1.866	72	4.586	US EPA Method 7E

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. <sup>2/</sup> The assigned value in EIA report (B.E.2558).



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2440-H2A
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 22/11/2023
RECEIVED DATE	: 24/11/2023	ANALYTICAL DATE	: 28/11/2023
REPORT DATE	: 06/12/2023	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H2A	SITE OPERATOR	: Mr. Rommadon Lemmad
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 60.20	m	Gas Velocity	: 7.8	m/s
Diameter	: 3.11	m	Flow rate <sup>1/</sup>	: 2,115	Ncu.m/min
Temperature	: 174.0	°C	Excess Oxygen	: 4.3	%
Moisture	: 10.3	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		4.3%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	7.20	6.02	0.458	-	-	US EPA Method 25A

(Miss Sudaporn Soonthorn)  
Analyst

(Miss Narisa Poowasanpetch)  
Technical Management Team

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3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. - Not available.



**The Monitoring Result of Emission Concentration  
2440 - H2A**

**PTT Global Chemical Public Company Limited  
November 22, 2023**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.30	4.24	27.76	27.79	23.19
2	4.35	4.29	28.27	28.30	23.68
3	4.37	4.31	28.34	28.36	23.76
<b>Average</b>	<b>4.34</b>	<b>4.28</b>	<b>28.12</b>	<b>28.15</b>	<b>23.54</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.30	4.24	7.35	7.32	6.11
2	4.35	4.29	7.77	7.74	6.48
3	4.37	4.31	7.97	7.94	6.65
<b>Average</b>	<b>4.34</b>	<b>4.28</b>	<b>7.70</b>	<b>7.67</b>	<b>6.41</b>

**PTT Global Chemical Public Company Limited  
EMISSION TEST RESULT**

<b>Date:</b>	November 22, 2023	<b>Run # :</b>	1
<b>Start time:</b>	10:30 AM	<b>Location :</b>	2440 - H2A
<b>O<sub>2</sub> instrument Model:</b>	AMI 70	<b>Finish time :</b>	10:50 AM
<b>NO<sub>x</sub> instrument Model:</b>	Teledyne 200 EM	<b>Serial No.:</b>	161212-14
<b>SO<sub>2</sub> instrument Model:</b>	API 100 AH	<b>Serial No.:</b>	435
<b>Fuel Type :</b>	Fuel Gas	<b>Serial No.:</b>	058
		<b>Test Operator :</b>	Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:30 AM	4.11	26.88	7.34
10:31 AM	4.19	26.84	7.48
10:32 AM	4.25	27.02	7.52
10:33 AM	4.28	27.07	7.62
10:34 AM	4.27	27.10	7.38
10:35 AM	4.21	27.23	7.45
10:36 AM	4.23	27.47	7.47
10:37 AM	4.27	27.65	7.47
10:38 AM	4.19	27.86	7.55
10:39 AM	4.28	27.93	7.60
10:40 AM	4.28	27.96	7.61
10:41 AM	4.32	28.03	7.60
10:42 AM	4.42	28.04	7.68
10:43 AM	4.36	28.30	6.73
10:44 AM	4.32	28.34	6.79
10:45 AM	4.36	28.08	6.81
10:46 AM	4.44	28.08	6.88
10:47 AM	4.42	28.32	7.14
10:48 AM	4.37	28.33	7.38
10:49 AM	4.39	28.16	7.46
10:50 AM	4.33	28.18	7.49
<b>Average</b>	<b>4.30</b>	<b>27.76</b>	<b>7.35</b>

Signature

( Miss Katesarin Vorradetwittaya )

Environmental Scientist



**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Run # : 2**

**Date:** November 22, 2023  
**Start time:** 10:51 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** Teledyne 200 EM  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Location :** 2440 - H2A  
**Finish time :** 11:11 AM  
**Serial No.:** 161212-14  
**Serial No.:** 435  
**Serial No.:** 058  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:51 AM	4.31	28.26	7.60
10:52 AM	4.34	28.23	7.67
10:53 AM	4.37	28.20	7.70
10:54 AM	4.33	28.23	7.77
10:55 AM	4.29	28.22	7.76
10:56 AM	4.37	28.14	7.79
10:57 AM	4.42	28.13	7.67
10:58 AM	4.33	28.36	7.55
10:59 AM	4.43	28.50	7.61
11:00 AM	4.44	28.46	7.62
11:01 AM	4.42	28.46	7.69
11:02 AM	4.34	28.38	7.80
11:03 AM	4.29	28.25	7.77
11:04 AM	4.24	28.13	7.78
11:05 AM	4.29	28.00	7.87
11:06 AM	4.38	28.15	7.91
11:07 AM	4.38	28.34	7.85
11:08 AM	4.34	28.27	7.87
11:09 AM	4.40	28.23	7.89
11:10 AM	4.35	28.38	8.02
11:11 AM	4.32	28.35	7.92
<b>Average</b>	4.35	28.27	7.77

Signature   
 ( Miss Katesarin Vorradetwittaya )  
 Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Run # : 3**

**Date:** November 22, 2023  
**Start time:** 11:12 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** Teledyne 200 EM  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Location :** 2440 - H2A  
**Finish time :** 11:32 AM  
**Serial No.:** 161212-14  
**Serial No.:** 435  
**Serial No.:** 058  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:12 AM	4.37	28.31	7.94
11:13 AM	4.24	28.41	7.89
11:14 AM	4.26	28.34	7.91
11:15 AM	4.28	28.17	7.93
11:16 AM	4.25	28.21	7.93
11:17 AM	4.28	28.29	7.94
11:18 AM	4.27	28.19	8.00
11:19 AM	4.33	28.07	7.94
11:20 AM	4.38	28.14	8.00
11:21 AM	4.41	28.36	8.00
11:22 AM	4.42	28.46	7.98
11:23 AM	4.37	28.43	8.02
11:24 AM	4.38	28.33	8.06
11:25 AM	4.34	28.30	8.06
11:26 AM	4.30	28.20	7.90
11:27 AM	4.38	28.24	7.96
11:28 AM	4.40	28.44	8.02
11:29 AM	4.47	28.51	7.98
11:30 AM	4.51	28.54	7.95
11:31 AM	4.54	28.61	7.97
11:32 AM	4.55	28.62	8.01
<b>Average</b>	4.37	28.34	7.97

Signature   
 ( Miss Katesarin Vorradetwittaya )  
 Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 223097/MON2H/2440-H2B  
Branch 5 (Aromatics 2 Plant)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 21/11/2023  
RECEIVED DATE : 28/11/2023 ANALYTICAL DATE : 06/12/2023-11/01/2024  
REPORT DATE : 11/01/2024 SAMPLE CONDITION : Normal  
STACK LOCATION : 2440-H2B SITE OPERATOR : Mr. Kittipong Thakoengsuk  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 60.20 m Gas Velocity : 6.7 m/s  
Diameter : 3.11 m Flow rate<sup>1/</sup> : 1,740 Ncu.m/min  
Temperature : 179.1 °C Excess Oxygen : 4.6 %  
Moisture : 12.6 %

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		4.6%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	6.72	5.73	0.511	223	19.767	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	29.95	25.50	1.634	72	4.586	US EPA Method 7E

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

- Remark : 1. Reported analysis refers to submitted sample only.  
2. This report shall not be reproduced, except in full, without official approval.  
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. <sup>2/</sup> The assigned value in EIA report (B.E.2558).



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REFERENCE NO. : 223097/MON2H/2440-H2B  
Branch 5 (Aromatics 2 Plant)  
SAMPLING BY : SECOT Co., Ltd. SAMPLING DATE : 21/11/2023  
RECEIVED DATE : 24/11/2023 ANALYTICAL DATE : 28/11/2023  
REPORT DATE : 06/12/2023 SAMPLE CONDITION : Normal  
STACK LOCATION : 2440-H2B SITE OPERATOR : Mr. Sittichai Sawangwongchai  
SOURCE DESCRIPTION : Combustion FUEL TYPE : Fuel gas

STACK DESCRIPTION

Height : 60.20 m Gas Velocity : 6.7 m/s  
Diameter : 3.11 m Flow rate<sup>1/</sup> : 1,740 Ncu.m/min  
Temperature : 179.1 °C Excess Oxygen : 4.6 %  
Moisture : 12.6 %

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		4.6%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	2.21	1.88	0.116	-	-	US EPA Method 25A

(Miss Sudaporn Soonthorn)  
Analyst

(Miss Narisa Poowasanpetch)  
Technical Management Team

- Remark : 1. Reported analysis refers to submitted sample only.  
2. This report shall not be reproduced, except in full, without official approval.  
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. - Not available.

**The Monitoring Result of Emission Concentration  
2440 - H2B**

**PTT Global Chemical Public Company Limited  
December 21, 2022**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.57	4.57	29.87	29.90	25.45
2	4.61	4.60	29.95	29.98	25.57
3	4.57	4.56	29.93	29.96	25.49
<b>Average</b>	<b>4.58</b>	<b>4.58</b>	<b>29.92</b>	<b>29.95</b>	<b>25.50</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	4.57	4.57	6.22	6.15	5.23
2	4.61	4.60	6.96	6.90	5.88
3	4.57	4.56	7.18	7.12	6.06
<b>Average</b>	<b>4.58</b>	<b>4.58</b>	<b>6.79</b>	<b>6.72</b>	<b>5.73</b>

**PTT Global Chemical Public Company Limited  
EMISSION TEST RESULT**

<b>Date:</b>	December 21, 2022	<b>Run # :</b>	1
<b>Start time:</b>	10:30 AM	<b>Location :</b>	2440 - H2B
<b>O<sub>2</sub> instrument Model:</b>	AMI 70	<b>Finish time :</b>	10:50 AM
<b>NO<sub>x</sub> instrument Model:</b>	API 200 AH	<b>Serial No.:</b>	111117-2
<b>SO<sub>2</sub> instrument Model:</b>	API 100 AH	<b>Serial No.:</b>	441
<b>Fuel Type :</b>	Fuel Gas	<b>Serial No.:</b>	118
		<b>Test Operator :</b>	Kittipong T.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:30 AM	4.53	29.64	5.38
10:31 AM	4.47	29.77	5.56
10:32 AM	4.49	29.82	5.69
10:33 AM	4.52	29.79	5.73
10:34 AM	4.56	29.96	5.85
10:35 AM	4.58	30.11	5.98
10:36 AM	4.58	30.13	6.03
10:37 AM	4.58	30.03	6.13
10:38 AM	4.54	29.93	6.19
10:39 AM	4.52	30.03	6.26
10:40 AM	4.54	30.03	6.31
10:41 AM	4.61	29.87	6.34
10:42 AM	4.63	29.85	6.45
10:43 AM	4.58	29.94	6.47
10:44 AM	4.59	29.87	6.51
10:45 AM	4.67	29.76	6.57
10:46 AM	4.56	29.75	6.59
10:47 AM	4.57	29.80	6.55
10:48 AM	4.57	29.82	6.56
10:49 AM	4.58	29.66	6.63
10:50 AM	4.66	29.65	6.77
<b>Average</b>	<b>4.57</b>	<b>29.87</b>	<b>6.22</b>

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 2

Date: December 21, 2022  
 Start time: 10:51 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: API 200 AH  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Location : 2440 - H2B  
 Finish time: 11:11 AM  
 Serial No.: 111117-2  
 Serial No.: 441  
 Serial No.: 118  
 Test Operator : Kittipong T.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
10:51 AM	4.59	29.81	6.80
10:52 AM	4.50	29.95	6.75
10:53 AM	4.57	29.98	6.79
10:54 AM	4.57	29.91	6.85
10:55 AM	4.60	29.82	6.91
10:56 AM	4.56	29.98	6.99
10:57 AM	4.55	29.97	6.94
10:58 AM	4.65	29.81	6.93
10:59 AM	4.72	29.86	7.03
11:00 AM	4.63	29.90	7.02
11:01 AM	4.62	29.92	6.93
11:02 AM	4.66	29.84	7.10
11:03 AM	4.64	29.91	7.12
11:04 AM	4.59	29.96	7.13
11:05 AM	4.65	29.96	6.92
11:06 AM	4.68	30.01	6.91
11:07 AM	4.59	30.15	6.96
11:08 AM	4.60	30.10	6.84
11:09 AM	4.64	29.91	6.98
11:10 AM	4.68	30.01	7.04
11:11 AM	4.54	30.10	7.12
Average	4.61	29.95	6.96

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

Run # : 3

Date: December 21, 2022  
 Start time: 11:12 AM  
 O<sub>2</sub> instrument Model: AMI 70  
 NO<sub>x</sub> instrument Model: API 200 AH  
 SO<sub>2</sub> instrument Model: API 100 AH  
 Fuel Type : Fuel Gas

Location : 2440 - H2B  
 Finish time: 11:32 AM  
 Serial No.: 111117-2  
 Serial No.: 441  
 Serial No.: 118  
 Test Operator : Kittipong T.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:12 AM	4.60	30.06	7.15
11:13 AM	4.68	29.96	7.23
11:14 AM	4.61	29.84	7.30
11:15 AM	4.64	29.93	7.23
11:16 AM	4.59	30.07	7.05
11:17 AM	4.57	30.03	7.07
11:18 AM	4.63	29.92	7.18
11:19 AM	4.59	29.89	7.34
11:20 AM	4.53	29.93	7.21
11:21 AM	4.52	30.03	7.18
11:22 AM	4.56	30.05	7.05
11:23 AM	4.59	30.07	7.10
11:24 AM	4.56	29.95	7.14
11:25 AM	4.57	29.84	7.14
11:26 AM	4.54	29.85	7.16
11:27 AM	4.48	29.88	7.17
11:28 AM	4.56	29.91	7.19
11:29 AM	4.62	29.83	7.20
11:30 AM	4.60	29.83	7.18
11:31 AM	4.49	29.91	7.31
11:32 AM	4.47	29.83	7.27
Average	4.57	29.93	7.18

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2440-H20
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 20/11/2023
RECEIVED DATE	: 28/11/2023	ANALYTICAL DATE	: 06/12/2023-11/01/2024
REPORT DATE	: 11/01/2024	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H20	SITE OPERATOR	: Mr. Song Hengchwankul
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 32.06	m	Gas Velocity	: 3.3	m/s
Diameter	: 1.27	m	Flow rate <sup>1/</sup>	: 147	Ncu.m/min
Temperature	: 177.7	°C	Excess Oxygen	: 8.3	%
Moisture	: 10.9	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD <sup>2/</sup>		REFERENCE METHOD
		8.3%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Sulfur Dioxide (SO <sub>2</sub> )	ppm	5.20	5.73	0.033	97	0.963	US EPA Method 6C
Oxide of Nitrogen (NO <sub>x</sub> )	ppm	18.91	20.84	0.087	56	0.397	US EPA Method 7E

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

- Remark :** 1. Reported analysis refers to submitted sample only.  
2. This report shall not be reproduced, except in full, without official approval.  
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. <sup>2/</sup> The assigned value in EIA report (B.E.2558).



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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/2440-H20
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 20/11/2023
RECEIVED DATE	: 21/11/2023	ANALYTICAL DATE	: 22/11/2023
REPORT DATE	: 06/12/2023	SAMPLE CONDITION	: Normal
STACK LOCATION	: 2440-H20	SITE OPERATOR	: Mr. Supakit Tamooka
SOURCE DESCRIPTION	: Combustion	FUEL TYPE	: Fuel gas

STACK DESCRIPTION

Height	: 32.06	m	Gas Velocity	: 3.3	m/s
Diameter	: 1.27	m	Flow rate <sup>1/</sup>	: 147	Ncu.m/min
Temperature	: 177.7	°C	Excess Oxygen	: 8.3	%
Moisture	: 10.9	%			

PARAMETER	UNIT	RESULT <sup>1/</sup>			STANDARD		REFERENCE METHOD
		8.3%O <sub>2</sub>	7%O <sub>2</sub>	g/s	7%O <sub>2</sub>	g/s	
Total Volatile Organic Compounds (TVOCs)	ppm	4.68	5.16	0.021	-	-	US EPA Method 25A

(Miss Sudaporn Soonthorn)  
Analyst

(Miss Narisa Poowasanpetch)  
Technical Management Team

- Remark :** 1. Reported analysis refers to submitted sample only.  
2. This report shall not be reproduced, except in full, without official approval.  
3. <sup>1/</sup> At standard pressure of 760 mmHg and temperature of 25 °C, dry basis.  
4. - Not available.

**The Monitoring Result of Emission Concentration  
2440 - H20**

**PTT Global Chemical Public Company Limited  
November 20, 2023**

Run Number	Oxygen content (%)		Oxide of Nitrogen (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	8.33	8.28	18.80	18.80	20.71
2	8.34	8.29	18.98	18.98	20.92
3	8.34	8.28	18.96	18.96	20.88
<b>Average</b>	<b>8.34</b>	<b>8.28</b>	<b>18.91</b>	<b>18.91</b>	<b>20.84</b>

Run Number	Oxygen content (%)		Sulfur dioxide (ppm)		
	RM Stack Gas Conc	Corrected Gas Conc	RM Stack Gas Conc	Corrected Gas Conc @Actual O2	Corrected Gas Conc @7% O2
1	8.33	8.28	5.27	5.24	5.77
2	8.34	8.29	5.23	5.19	5.72
3	8.34	8.28	5.21	5.17	5.69
<b>Average</b>	<b>8.34</b>	<b>8.28</b>	<b>5.24</b>	<b>5.20</b>	<b>5.73</b>

**PTT Global Chemical Public Company Limited  
EMISSION TEST RESULT**

<b>Date:</b>	November 20, 2023	<b>Run # :</b>	1
<b>Start time:</b>	11:30 AM	<b>Location :</b>	2440 - H20
<b>O<sub>2</sub> instrument Model:</b>	AMI 70	<b>Finish time :</b>	11:50 AM
<b>NO<sub>x</sub> instrument Model:</b>	API 200 AH	<b>Serial No.:</b>	111117-2
<b>SO<sub>2</sub> instrument Model:</b>	API 100 AH	<b>Serial No.:</b>	441
<b>Fuel Type :</b>	Fuel Gas	<b>Serial No.:</b>	060
		<b>Test Operator :</b>	Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:30 AM	8.34	18.67	5.11
11:31 AM	8.35	18.79	5.07
11:32 AM	8.36	18.72	5.06
11:33 AM	8.35	17.16	5.07
11:34 AM	8.33	18.71	5.16
11:35 AM	8.36	18.90	5.24
11:36 AM	8.36	19.05	5.25
11:37 AM	8.36	19.08	5.22
11:38 AM	8.34	19.00	5.24
11:39 AM	8.35	18.95	5.20
11:40 AM	8.33	18.91	5.23
11:41 AM	8.31	19.03	5.41
11:42 AM	8.31	19.07	5.36
11:43 AM	8.29	19.08	5.33
11:44 AM	8.29	18.92	5.40
11:45 AM	8.31	18.70	5.35
11:46 AM	8.34	18.70	5.34
11:47 AM	8.34	18.83	5.45
11:48 AM	8.32	18.97	5.34
11:49 AM	8.32	18.74	5.39
11:50 AM	8.31	18.75	5.52
<b>Average</b>	<b>8.33</b>	<b>18.80</b>	<b>5.27</b>

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Run # : 2**

**Date:** November 20, 2023  
**Start time:** 11:51 AM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** API 200 AH  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Location :** 2440 - H20  
**Finish time :** 12:11 PM  
**Serial No.:** 111117-2  
**Serial No.:** 441  
**Serial No.:** 060  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
11:51 AM	8.30	18.78	5.47
11:52 AM	8.30	18.83	5.45
11:53 AM	8.31	18.73	5.44
11:54 AM	8.31	18.56	5.52
11:55 AM	8.33	18.80	5.55
11:56 AM	8.35	18.98	5.55
11:57 AM	8.34	19.10	5.14
11:58 AM	8.34	19.24	5.20
11:59 AM	8.35	19.12	5.10
12:00 PM	8.35	19.07	5.13
12:01 PM	8.36	19.09	5.10
12:02 PM	8.35	19.09	5.06
12:03 PM	8.35	19.04	5.02
12:04 PM	8.32	19.07	5.00
12:05 PM	8.34	19.06	5.03
12:06 PM	8.35	19.04	5.11
12:07 PM	8.33	19.01	5.26
12:08 PM	8.36	18.88	5.20
12:09 PM	8.34	18.90	5.19
12:10 PM	8.36	19.11	5.22
12:11 PM	8.37	19.10	5.18
<b>Average</b>	8.34	18.98	5.23

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist

**PTT Global Chemical Public Company Limited**  
**EMISSION TEST RESULT**

**Run # : 3**

**Date:** November 20, 2023  
**Start time:** 12:12 PM  
**O<sub>2</sub> instrument Model:** AMI 70  
**NO<sub>x</sub> instrument Model:** API 200 AH  
**SO<sub>2</sub> instrument Model:** API 100 AH  
**Fuel Type :** Fuel Gas

**Location :** 2440 - H20  
**Finish time :** 12:32 PM  
**Serial No.:** 111117-2  
**Serial No.:** 441  
**Serial No.:** 060  
**Test Operator :** Song H.

Time, min	O <sub>2</sub> (%)	NO <sub>x</sub> (ppm)	SO <sub>2</sub> (ppm)
12:12 PM	8.37	18.98	5.15
12:13 PM	8.36	19.05	5.21
12:14 PM	8.34	18.96	5.23
12:15 PM	8.36	19.08	5.13
12:16 PM	8.37	19.34	5.16
12:17 PM	8.37	19.22	5.12
12:18 PM	8.36	18.97	5.13
12:19 PM	8.31	19.03	5.14
12:20 PM	8.32	18.97	5.18
12:21 PM	8.32	19.06	5.15
12:22 PM	8.30	19.16	5.13
12:23 PM	8.32	18.93	5.20
12:24 PM	8.34	18.67	5.28
12:25 PM	8.37	18.77	5.26
12:26 PM	8.35	18.96	5.21
12:27 PM	8.31	18.97	5.23
12:28 PM	8.32	19.13	5.27
12:29 PM	8.31	18.87	5.25
12:30 PM	8.33	18.61	5.31
12:31 PM	8.33	18.62	5.32
12:32 PM	8.32	18.80	5.44
<b>Average</b>	8.34	18.96	5.21

Signature



( Miss Katesarin Vorradetwittaya )

Environmental Scientist





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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/VRU (Outlet)
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 23/11/2023
RECEIVED DATE	: 24/11/2023	ANALYTICAL DATE	: 30/11/2023-01/12/2023
REPORT DATE	: 06/12/2023	SAMPLE CONDITION	: Normal
STACK LOCATION	: VRU (Outlet)	SITE OPERATOR	: Mr. Pisanu Seenampeng
SOURCE DESCRIPTION	: Process	FUEL TYPE	: Fuel gas

PARAMETER	UNIT	ND Non detectable	RESULT	STANDARD	REFERENCE METHOD
Benzene	ppm	0.06	1.08	-	US EPA Method 18
Toluene	ppm	0.05	0.67	-	US EPA Method 18
m,p-Xylene	ppm	0.05	0.17	-	US EPA Method 18
o-Xylene	ppm	0.05	ND	-	US EPA Method 18

Sudaporn S.

(Miss Sudaporn Soonthorn)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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STACK EMISSION ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/VRU (Outlet)
	Branch 5 (Aromatics 2 Plant)		
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING DATE	: 23/11/2023
RECEIVED DATE	: 24/11/2023	ANALYTICAL DATE	: 28/11/2023
REPORT DATE	: 06/12/2023	SAMPLE CONDITION	: Normal
STACK LOCATION	: VRU (Outlet)	SITE OPERATOR	: Mr. Pisanu Seenampeng
SOURCE DESCRIPTION	: Process	FUEL TYPE	: Fuel gas

PARAMETER	UNIT	RESULT	STANDARD	REFERENCE METHOD
Total Volatile Organic Compounds (TVOCs)	ppm	509	-	US EPA Method 25A

Sudaporn S.

(Miss Sudaporn Soonthorn)

Analyst

Narisa Poowasanpetch

(Miss Narisa Poowasanpetch)

Technical Management Team

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ภาคผนวก ง.2-3

ใบรับรองผลการตรวจวัดคุณภาพน้ำทิ้ง



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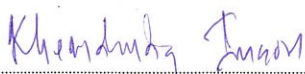
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1105/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:38
SAMPLING DATE	: 05/07/2023	ANALYTICAL DATE	: 06-14/07/2023
RECEIVED DATE	: 06/07/2023	SITE OPERATOR	: Mr. Aniwat Pimwanna
REPORT DATE	: 14/07/2023	FILE CODE	: 223097_WW_July
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-Transfer Tank	
Temperature	°C	2550 B	< 0.5	34.7	-
pH	-	4500-H <sup>+</sup> B	< 0.10	7.39	-
Total Dissolved Solids	mg/l	2540 C	< 50	318	-
Total Suspended Solids	mg/l	2540 D	< 5	28	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	1.6	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	2.8	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	86.1	-
COD	mg/l	5220 C	< 15.00	121	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	32.69	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0085	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)



(Miss Khemchuda Insorn)

Analyst

REG. NO. ๖-239-ก-5976



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-ก-5863

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  4. - Not available.



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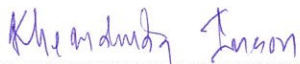
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No. :	1105/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:47
SAMPLING DATE	: 05/07/2023	ANALYTICAL DATE	: 06-14/07/2023
RECEIVED DATE	: 06/07/2023	SITE OPERATOR	: Mr. Aniwat Pimwanna
REPORT DATE	: 14/07/2023	FILE CODE	: 223097_WW_July
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-DAF หลังผ่าน Clarifier Tank	
Temperature	°C	2550 B	< 0.5	33.2	-
pH	-	4500-H <sup>+</sup> B	< 0.10	6.62	-
Total Dissolved Solids	mg/l	2540 C	< 50	288	-
Total Suspended Solids	mg/l	2540 D	< 5	< 5	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	4.8	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	-
COD	mg/l	5220 C	< 15.00	16.91	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	4.23	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0022	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)



( Miss Khemchuda Insorn )

Analyst

REG. NO. ว-239-ก-5976



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-5863

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  4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1105/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:57
SAMPLING DATE	: 05/07/2023	ANALYTICAL DATE	: 06-14/07/2023
RECEIVED DATE	: 06/07/2023	SITE OPERATOR	: Mr. Aniwat Pimwanna
REPORT DATE	: 14/07/2023	FILE CODE	: 223097_WW_July
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD <sup>1/</sup>
				Final Effluent Basin	
Temperature	°C	2550 B	< 0.5	33.8	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.20	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	314	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
Dissolved Oxygen	mg/l	4500-O G	< 0.1	4.8	-
COD	mg/l	5220 C	< 15.00	15.44	≤ 120
Total Organic Carbon*	mg/l	5310 B	< 0.01	5.07	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0009	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)



( Miss Khemchuda Insorn )

Analyst

REG. NO. ๖-239-ก-5976



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-ก-5863

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  5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1105/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 15:05
SAMPLING DATE	: 05/07/2023	ANALYTICAL DATE	: 10/07/2023
RECEIVED DATE	: 06/07/2023	SITE OPERATOR	: Mr. Aniwat Pimwanna
REPORT DATE	: 14/07/2023	FILE CODE	: 223097_WW_July
SAMPLE CONDITION	: Normal		
LOCATION DESCRIPTION	: 1 = Hg Treated Water Tank (หน่วยบำบัดปรอทในน้ำเสียจากกระบวนการผลิต (น้ำจาก Desalter))		

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD
		METHODS	(non-detectable)	1	
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0006	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)



(Miss Pornnapa Budthum)

Analyst

REG. NO. ว-239-จ-7803



(Mrs. Araya Tipparuk)

Technical Management Team

REG. NO. ว-239-ค-5863

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1105/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:33
SAMPLING DATE	: 05/07/2023	ANALYTICAL DATE	: 07/07/2023
RECEIVED DATE	: 06/07/2023	SITE OPERATOR	: Mr. Aniwat Pimwanna
REPORT DATE	: 14/07/2023	FILE CODE	: 223097_WW_July
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				ระบบหล่อเย็นก่อนเข้า Final Effluent Basin	
Zinc (Zn)	mg/l	3120 B	< 0.003	0.72	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)



( Miss Pornnapa Budthum )

Analyst

REG. NO. ๖-239-๖-7803



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-๖-5863

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1463/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 15:30
SAMPLING DATE	: 28/08/2023	ANALYTICAL DATE	: 29/08/2023-07/09/2023
RECEIVED DATE	: 29/08/2023	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 07/09/2023	FILE CODE	: 223097_WW_August
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-Transfer Tank	
Temperature	°C	2550 B	< 0.5	35.0	-
pH		4500-H <sup>+</sup> B	< 0.10	9.17	-
Total Dissolved Solids	mg/l	2540 C	< 50	324	-
Total Suspended Solids	mg/l	2540 D	< 5	19	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	3.0	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	142	-
COD	mg/l	5220 C	< 15.00	209	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	65.35	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0168	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

(Miss Khemchuda Insorn)

Analyst

REG. NO. ๖-239-ก-0005

*Araya Tipparuk*

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-ก-0004

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  4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1463/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 15:45
SAMPLING DATE	: 28/08/2023	ANALYTICAL DATE	: 29/08/2023-07/09/2023
RECEIVED DATE	: 29/08/2023	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 07/09/2023	FILE CODE	: 223097_WW_August
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-DAF หลังฝัก Clarifier Tank	
Temperature	°C	2550 B	< 0.5	34.3	-
pH	-	4500-H <sup>+</sup> B	< 0.10	7.31	-
Total Dissolved Solids	mg/l	2540 C	< 50	334	-
Total Suspended Solids	mg/l	2540 D	< 5	< 5	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	4.6	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	-
COD	mg/l	5220 C	< 15.00	21.44	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	4.69	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0014	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)



( Miss Khemchuda Insorn )

Analyst

REG. NO. ๖-239-ก-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1463/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 15:50
SAMPLING DATE	: 28/08/2023	ANALYTICAL DATE	: 29/08/2023-07/09/2023
RECEIVED DATE	: 29/08/2023	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 07/09/2023	FILE CODE	: 223097_WW_August
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD <sup>1/</sup>
				Final Effluent Basin	
Temperature	°C	2550 B	< 0.5	35.0	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.66	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	434	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	1.2	≤ 20
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.0	-
COD	mg/l	5220 C	< 15.00	< 15.00	≤ 120
Total Organic Carbon*	mg/l	5310 B	< 0.01	5.62	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

( Miss Khemchuda Insorn )

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REG. NO. ว-239-ก-0005

*Araya Tipparuk*

( Mrs. Araya Tipparuk )

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REG. NO. ว-239-ก-0004

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3. <sup>1/</sup> Notification of the Ministry of Natural Resources and Environment B.E.2559 (2016).

4. \*Total Organic Carbon analysis was performed by Faculty of Public Health, Mahidol University.

5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1463/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 15:30
SAMPLING DATE	: 28/08/2023	ANALYTICAL DATE	: 29-30/08/2023
RECEIVED DATE	: 29/08/2023	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 07/09/2023	FILE CODE	: 223097_WW_August
SAMPLE CONDITION	: Normal		


PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION ระบบหล่อเย็นก่อนเข้า Final Effluent Basin	STANDARD
Zinc (Zn)	mg/l	3120 B	≤ 0.003	1.45	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.,2017 (AWWA,APHA, WEF)

  
( Miss Krisana Chanthoom )

Analyst

REG. NO. ว-239-จ-0017

  
( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ค-0004

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1463/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 15:55
SAMPLING DATE	: 28/08/2023	ANALYTICAL DATE	: 02/09/2023
RECEIVED DATE	: 29/08/2023	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 07/09/2023	FILE CODE	: 223097_WW_August
SAMPLE CONDITION	: Normal		

LOCATION DESCRIPTION : 1 = Hg Treated Water Tank (หน่วยบำบัดปรอทในน้ำเสียจากกระบวนการผลิต (น้ำจาก Desalter))

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 1	STANDARD
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0017	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

( Miss Krisana Chanthoom )

Analyst

REG. NO. ๖-239-๖-0017

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-๖-0004

- Remark :**
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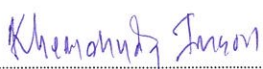
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1549/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 11:10
SAMPLING DATE	: 06/09/2023	ANALYTICAL DATE	: 07-14/09/2023
RECEIVED DATE	: 07/09/2023	SITE OPERATOR	: Mr.Suphachai Sukmai
REPORT DATE	: 21/09/2023	FILE CODE	: 223097_WW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-Transfer Tank	
Temperature	°C	2550 B	< 0.5	34.1	-
pH	-	4500-H <sup>+</sup> B	< 0.10	7.00	-
Total Dissolved Solids	mg/l	2540 C	< 50	353	-
Total Suspended Solids	mg/l	2540 D	< 5	30	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	3.9	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	163	-
COD	mg/l	5220 C	< 15.00	331	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	75.69	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0683	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.,2017 (AWWA,APHA, WEF)



(Miss Khemchuda Insorn)

Analyst

REG. NO. ๓-239-ท-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๓-239-ท-0004

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  4. - Not available.



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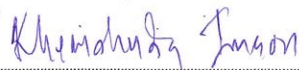
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1549/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:58
SAMPLING DATE	: 06/09/2023	ANALYTICAL DATE	: 07-14/09/2023
RECEIVED DATE	: 07/09/2023	SITE OPERATOR	: Mr.Suphachai Sukmai
REPORT DATE	: 21/09/2023	FILE CODE	: 223097_WW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-DAF หลังผ่าน Clarifier Tank	
Temperature	°C	2550 B	< 0.5	32.8	-
pH	-	4500-H <sup>+</sup> B	< 0.10	6.86	-
Total Dissolved Solids	mg/l	2540 C	< 50	465	-
Total Suspended Solids	mg/l	2540 D	< 5	< 5	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	4.4	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	-
COD	mg/l	5220 C	< 15.00	< 15.00	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	4.24	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0006	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)



( Miss Khemchuda Insorn )

Analyst

REG. NO. ว-239-ท-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ท-0004

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  4. - Not available.





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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1549/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:43
SAMPLING DATE	: 06/09/2023	ANALYTICAL DATE	: 07-14/09/2023
RECEIVED DATE	: 07/09/2023	SITE OPERATOR	: Mr.Suphachai Sukmai
REPORT DATE	: 21/09/2023	FILE CODE	: 223097_WW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD <sup>1/</sup>
				Final Effluent Basin	
Temperature	°C	2550 B	< 0.5	32.5	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.46	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	514	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.7	-
COD	mg/l	5220 C	< 15.00	< 15.00	≤ 120
Total Organic Carbon*	mg/l	5310 B	< 0.01	5.61	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)



( Miss Khemchuda Insorn )

Analyst

REG. NO. ว-239-ก-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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3. <sup>1/</sup> Notification of the Ministry of Natural Resources and Environment B.E.2559 (2016).

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5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1549/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 11:15
SAMPLING DATE	: 06/09/2023	ANALYTICAL DATE	: 08,12/09/2023
RECEIVED DATE	: 07/09/2023	SITE OPERATOR	: Mr.Suphachai Sukmai
REPORT DATE	: 21/09/2023	FILE CODE	: 223097_WW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				ระบบหล่อเย็นก่อนเข้า Final Effluent Basin	
Zinc (Zn)	mg/l	3120 B	< 0.003	1.13	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.,2017 (AWWA,APHA, WEF)



( Miss Krisana Chanthoom )

Analyst

REG. NO. ว-239-ก-0017



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME : PTT Global Chemical Public Co., Ltd. REQUEST SERVICE No. : 1549/66  
(Branch 5 : Aromatics 2 Plant) SAMPLING METHOD : Grab  
SAMPLING BY : SECOT Co., Ltd. SAMPLING TIME : 10:51  
SAMPLING DATE : 06/09/2023 ANALYTICAL DATE : 11/09/2023  
RECEIVED DATE : 07/09/2023 SITE OPERATOR : Mr.Suphachai Sukmai  
REPORT DATE : 21/09/2023 FILE CODE : 223097\_WW\_September  
SAMPLE CONDITION : Normal  
LOCATION DESCRIPTION : 1 = Hg Treated Water Tank (หน่วยบำบัดปรอทในน้ำเสียจากกระบวนการผลิต (น้ำจาก Desalter))

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				1	
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.,2017 (AWWA,APHA, WEF)

  
( Miss Krisana Chanthoom )  
Analyst  
REG. NO. ๖-239-จ-0017

  
( Mrs. Araya Tipparuk )  
Technical Management Team  
REG. NO. ๖-239-ท-0004

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1724/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:20
SAMPLING DATE	: 04/10/2023	ANALYTICAL DATE	: 05-11/10/2023
RECEIVED DATE	: 05/10/2023	SITE OPERATOR	: Mr.Suphachai Sukmai
REPORT DATE	: 12/10/2023	FILE CODE	: 223097_WW_October
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-Transfer Tank	
Temperature	°C	2550 B	< 0.5	30.0	-
pH	-	4500-H <sup>+</sup> B	< 0.10	6.97	-
Total Dissolved Solids	mg/l	2540 C	< 50	171	-
Total Suspended Solids	mg/l	2540 D	< 5	10	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	1.9	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	71.4	-
COD	mg/l	5220 C	< 15.00	132	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	32.68	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0032	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)



(Miss Khemchuda Insorn)

Analyst

REG. NO. ว-239-ก-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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  4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1724/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:30
SAMPLING DATE	: 04/10/2023	ANALYTICAL DATE	: 05-11/10/2023
RECEIVED DATE	: 05/10/2023	SITE OPERATOR	: Mr.Suphachai Sukmai
REPORT DATE	: 12/10/2023	FILE CODE	: 223097_WW_October
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-DAF หลังผ่าน Clarifier Tank	
Temperature	°C	2550 B	< 0.5	30.2	-
pH	-	4500-H <sup>+</sup> B	< 0.10	6.88	-
Total Dissolved Solids	mg/l	2540 C	< 50	229	-
Total Suspended Solids	mg/l	2540 D	< 5	< 5	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	4.9	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	-
COD	mg/l	5220 C	< 15.00	< 15.00	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	2.17	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.2017 (AWWA,APHA, WEF)



( Miss Khemchuda Insorn )

Analyst

REG. NO. ว-239-ก-0005



( Mrs. Araya Tipparuk )

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REG. NO. ว-239-ก-0004

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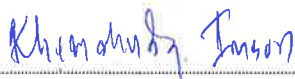
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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1724/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:35
SAMPLING DATE	: 04/10/2023	ANALYTICAL DATE	: 05-11/10/2023
RECEIVED DATE	: 05/10/2023	SITE OPERATOR	: Mr.Suphachai Sukmai
REPORT DATE	: 12/10/2023	FILE CODE	: 223097_WW_October
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD <sup>1/</sup>
				Final Effluent Basin	
Temperature	°C	2550 B	< 0.5	31.5	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.14	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	334	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	8	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
Dissolved Oxygen	mg/l	4500-O G	< 0.1	6.0	-
COD	mg/l	5220 C	< 15.00	18.90	≤ 120
Total Organic Carbon*	mg/l	5310 B	< 0.01	4.03	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)



( Miss Khemchuda Insorn )

Analyst

REG. NO. ๖-239-๓-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-๓-0004

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  5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1724/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:55
SAMPLING DATE	: 04/10/2023	ANALYTICAL DATE	: 09/10/2023
RECEIVED DATE	: 05/10/2023	SITE OPERATOR	: Mr.Suphachai Sukmai
REPORT DATE	: 12/10/2023	FILE CODE	: 223097_WW_October
SAMPLE CONDITION	: Normal		
LOCATION DESCRIPTION	: 1 = Hg Treated Water Tank (หน่วยบำบัดปรอทในน้ำเสียจากกระบวนการผลิต (น้ำจาก Desalter))		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 1	STANDARD
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

  
( Miss Krisana Chanthoom )

Analyst

REG. NO. ๖-239-๓-0017

  
( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-๓-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1724/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 13:35
SAMPLING DATE	: 04/10/2023	ANALYTICAL DATE	: 06/10/2023
RECEIVED DATE	: 05/10/2023	SITE OPERATOR	: Mr.Suphachai Sukmai
REPORT DATE	: 12/10/2023	FILE CODE	: 223097_WW_October
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION ระบบหล่อเย็นก่อนเข้า Final Effluent Basin	STANDARD
Zinc (Zn)	mg/l	3120 B	< 0.003	1.45	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.2017 (AWWA,APHA, WEF)

( Miss Krisana Chanthoom )

Analyst

REG. NO. ว-239-ท-0017

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ท-0004

- Remark :
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  3. <sup>1/</sup> Notification of the Ministry of Natural Resources and Environment B.E.2559 (2016).





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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

### WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1881/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:07
SAMPLING DATE	: 01/11/2023	ANALYTICAL DATE	: 02-08/11/2023
RECEIVED DATE	: 02/11/2023	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 09/11/2023	FILE CODE	: 223097_WW_November
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-Transfer Tank	
Temperature	°C	2550 B	< 0.5	33.9	-
pH	-	4500-H <sup>+</sup> B	< 0.10	6.86	-
Total Dissolved Solids	mg/l	2540 C	< 50	212	-
Total Suspended Solids	mg/l	2540 D	< 5	36	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	1.8	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	2.5	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	112	-
COD	mg/l	5220 C	< 15.00	200	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	57.49	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0048	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)



(Miss Khemchuda Insorn)

Analyst

REG. NO. ๖-239-ก-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-ก-0004

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  4. - Not available.





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### WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1881/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:20
SAMPLING DATE	: 01/11/2023	ANALYTICAL DATE	: 02-08/11/2023
RECEIVED DATE	: 02/11/2023	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 09/11/2023	FILE CODE	: 223097_WW_November
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-DAF หลังผ่าน Clarifier Tank	
Temperature	°C	2550 B	< 0.5	33.4	-
pH	-	4500-H <sup>+</sup> B	< 0.10	7.00	-
Total Dissolved Solids	mg/l	2540 C	< 50	242	-
Total Suspended Solids	mg/l	2540 D	< 5	15	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	5.4	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	-
COD	mg/l	5220 C	< 15.00	< 15.00	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	4.12	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

( Miss Khemchuda Insorn )

Analyst

REG. NO. ว-239-ก-0005

( Mrs. Araya Tipparuk )

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1881/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:29
SAMPLING DATE	: 01/11/2023	ANALYTICAL DATE	: 02-08/11/2023
RECEIVED DATE	: 02/11/2023	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 09/11/2023	FILE CODE	: 223097_WW_November
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD <sup>1/</sup>
				Final Effluent Basin	
Temperature	°C	2550 B	< 0.5	31.9	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.34	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	316	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	1.2	≤ 20
Dissolved Oxygen	mg/l	4500-O G	< 0.1	5.3	-
COD	mg/l	5220 C	< 15.00	35.21	≤ 120
Total Organic Carbon*	mg/l	5310 B	< 0.01	4.71	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED, 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

( Miss Khemchuda Insorn )

Analyst

REG. NO. ว-239-ก-0005

*Araya Tipparuk*

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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5. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1881/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:00
SAMPLING DATE	: 01/11/2023	ANALYTICAL DATE	: 03/11/2023
RECEIVED DATE	: 02/11/2023	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 09/11/2023	FILE CODE	: 223097_WW_November
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION ระบบหล่อเย็นก่อนเข้า Final Effluent Basin	STANDARD
Zinc (Zn)	mg/l	3120 B	< 0.003	0.96	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED, 2017 (AWWA, APHA, WEF)



( Miss Krisana Chanthoom )

Analyst

REG. NO. ว-239-ก-0017



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1881/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:35
SAMPLING DATE	: 01/11/2023	ANALYTICAL DATE	: 07/11/2023
RECEIVED DATE	: 02/11/2023	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 09/11/2023	FILE CODE	: 223097_WW_November
SAMPLE CONDITION	: Normal		
LOCATION DESCRIPTION	: 1 = Hg Treated Water Tank (หน่วยบำบัดปรอทในน้ำเสียจากกระบวนการผลิต (น้ำจาก Desalter))		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 1	STANDARD
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED.,2017 (AWWA,APHA, WEF)

( Miss Krisana Chanthoom )

Analyst

REG. NO. ว-239-จ-0017

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ค-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 2147/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:10
SAMPLING DATE	: 06/12/2023	ANALYTICAL DATE	: 07-13/12/2023
RECEIVED DATE	: 07/12/2023	SITE OPERATOR	: Miss Thipsuda Wannakran
REPORT DATE	: 14/12/2023	FILE CODE	: 223097_WW_December
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-Transfer Tank	
Temperature	°C	2550 B	< 0.5	32.8	-
pH	-	4500-H <sup>+</sup> B	< 0.10	7.28	-
Total Dissolved Solids	mg/l	2540 C	< 50	252	-
Total Suspended Solids	mg/l	2540 D	< 5	12	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	1.4	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	324	-
COD	mg/l	5220 C	< 15.00	767	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	180.7	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0105	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)



(Miss Khemchuda Insorn)

Analyst

REG. NO. ว-239-ก-0005



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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  4. - Not available.



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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 2147/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:15
SAMPLING DATE	: 06/12/2023	ANALYTICAL DATE	: 07-13/12/2023
RECEIVED DATE	: 07/12/2023	SITE OPERATOR	: Miss Thipsuda Wannakran
REPORT DATE	: 14/12/2023	FILE CODE	: 223097_WW_December
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD
				Bio-DAF หลังผ่าน Clarifier Tank	
Temperature	°C	2550 B	< 0.5	33.7	-
pH	-	4500-H <sup>+</sup> B	< 0.10	7.22	-
Total Dissolved Solids	mg/l	2540 C	< 50	274	-
Total Suspended Solids	mg/l	2540 D	< 5	< 5	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O G	< 0.10	4.5	-
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	-
COD	mg/l	5220 C	< 15.00	< 15.00	-
Total Organic Carbon*	mg/l	5310 B	< 0.01	4.48	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0016	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

*Khemchuda Insorn*

( Miss Khemchuda Insorn )

Analyst

REG. NO. ว-239-ก-0005

*Araya Tipparuk*

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ก-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 2147/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:20
SAMPLING DATE	: 06/12/2023	ANALYTICAL DATE	: 07-13/12/2023
RECEIVED DATE	: 07/12/2023	SITE OPERATOR	: Miss Thipsuda Wannakran
REPORT DATE	: 14/12/2023	FILE CODE	: 223097_WW_December
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD <sup>1/</sup>
				Final Effluent Basin	
Temperature	°C	2550 B	< 0.5	33.4	≤ 40
pH	-	4500-H <sup>+</sup> B	< 0.10	7.65	5.5-9.0
Total Dissolved Solids	mg/l	2540 C	< 50	360	≤ 3,000
Total Suspended Solids	mg/l	2540 D	< 5	< 5	≤ 50
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	≤ 5
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 20
Dissolved Oxygen	mg/l	4500-O G	< 0.1	4.9	-
COD	mg/l	5220 C	< 15.00	18.60	≤ 120
Total Organic Carbon*	mg/l	5310 B	< 0.01	5.22	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0006	≤ 0.005

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)



( Miss Khemchuda Insorn )

Analyst

REG. NO. ๖-239-ก-0005



( Mrs. Araya Tipparuk )

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 2147/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:25
SAMPLING DATE	: 06/12/2023	ANALYTICAL DATE	: 11-12/12/2023
RECEIVED DATE	: 07/12/2023	SITE OPERATOR	: Miss Thipsuda Wannakran
REPORT DATE	: 14/12/2023	FILE CODE	: 223097_WW_December
SAMPLE CONDITION	: Normal		
LOCATION DESCRIPTION	: 1 = Hg Treated Water Tank (หน่วยบำบัดปรอทในน้ำเสียจากกระบวนการผลิต (น้ำจาก Desalter))		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION 1	STANDARD
Mercury (Hg)	mg/l	3112 B	< 0.0005	0.0006	-

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

  
( Miss Krisana Chanthoom )

Analyst

REG. NO. ว-239-จ-0017

  
( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ค-0004

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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 2147/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:00
SAMPLING DATE	: 06/12/2023	ANALYTICAL DATE	: 08/12/2023
RECEIVED DATE	: 07/12/2023	SITE OPERATOR	: Miss Thipsuda Wannakran
REPORT DATE	: 14/12/2023	FILE CODE	: 223097_WW_December
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION ระบบหล่อเย็นก่อนเข้า Final Effluent Basin	STANDARD
Zinc (Zn)	mg/l	3120 B	< 0.003	0.57	≤ 5.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

  
( Miss Krisana Chanthoom )

Analyst

REG. NO. ว-239-จ-0017

  
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Technical Management Team

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ภาคผนวก ง.2-4

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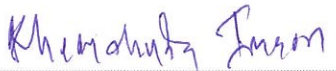
TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1548/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 11:41
SAMPLING DATE	: 06/09/2023	ANALYTICAL DATE	: 07-14/09/2023
RECEIVED DATE	: 07/09/2023	SITE OPERATOR	: Mr.Suphachai Sukmai
REPORT DATE	: 15/09/2023	FILE CODE	: 223097_SW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD <sup>1/</sup>
				คลองห้วยใหญ่ก่อนจุดระบายน้ำโครงการ 50 เมตร	
Temperature	°C	2550 B	< 0.5	32.4	n <sup>1</sup>
pH	-	4500-H <sup>+</sup> B	< 0.10	7.02	5 - 9
Total Dissolved Solids	mg/l	2540 C	< 50	386	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O C	< 0.10	5.5	≥ 4.0
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	< 1.0	≤ 2.0
COD	mg/l	5220 C	< 15.00	< 15.00	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.002
Zinc (Zn)	mg/l	3111 B	< 0.005	0.15	≤ 1.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED, 2017 (AWWA, APHA, WEF)



( Miss Khemchuda Insorn )

Analyst



( Mrs. Araya Tipparuk )

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

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3. <sup>1/</sup> The Standard values of Surface Water Quality for class 3, notification by the National Environment Board No.8, B.E.2537 (1994).

4. n<sup>1</sup> means naturally but changing by no more than 3 °C.

5. - Not available.



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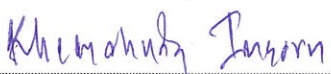
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WATER AND WASTEWATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1548/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 11:33
SAMPLING DATE	: 06/09/2023	ANALYTICAL DATE	: 07-14/09/2023
RECEIVED DATE	: 07/09/2023	SITE OPERATOR	: Mr.Suphachai Sukmai
REPORT DATE	: 15/09/2023	FILE CODE	: 223097_SW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD <sup>1/</sup>
				คลองห้วยใหญ่หลังจุดระบายน้ำโครงการ 50 เมตร	
Temperature	°C	2550 B	< 0.5	32.0	n <sup>1</sup>
pH	-	4500-H <sup>+</sup> B	< 0.10	6.85	5 - 9
Total Dissolved Solids	mg/l	2540 C	< 50	360	-
Fat Oil & Grease	mg/l	5520 B	< 0.50	ND	-
Dissolved Oxygen	mg/l	4500-O C	< 0.10	5.1	≥ 4.0
BOD <sub>5</sub>	mg/l	5210 B	< 1.0	1.0	≤ 2.0
COD	mg/l	5220 C	< 15.00	17.39	-
Mercury (Hg)	mg/l	3112 B	< 0.0005	ND	≤ 0.002
Zinc (Zn)	mg/l	3111 B	< 0.005	0.05	≤ 1.0

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)



( Miss Khemchuda Insorn )

Analyst



( Mrs. Araya Tipparuk )

Technical Management Team

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4. n<sup>1</sup> means naturally but changing by no more than 3 °C.

5. - Not available.

ภาคผนวก ง.2-5

ใบรับรองผลการตรวจวัดคุณภาพน้ำใต้ดิน



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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No. :	1567/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:04-14:50
SAMPLING DATE	: 07/09/2023	ANALYTICAL DATE	: 16/09/2023
RECEIVED DATE	: 08/09/2023	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/09/2023	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1/</sup>
		METHODS	(non-detectable)	MW-01	
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED, 2017 (AWWA, APHA, WEF)

Jutarat Jaemruen

( Miss Jutarat Jaemruen )

Analyst

REG. NO. ว-239-ท-0022

Araya Tipparuk

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ท-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1567/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 14:04-14:50
SAMPLING DATE	: 07/09/2023	ANALYTICAL DATE	: 11/09/2023
RECEIVED DATE	: 08/09/2023	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/09/2023	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-01	STANDARD <sup>1/</sup>
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

  
( Miss Krisana Chanthoom )  
Analyst  
REG. NO. ๖-239-๖-0017

  
( Mrs. Araya Tipparuk )  
Technical Management Team  
REG. NO. ๖-239-๖-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1567/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 09:41-09:53
SAMPLING DATE	: 06/09/2023	ANALYTICAL DATE	: 16/09/2023
RECEIVED DATE	: 08/09/2023	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/09/2023	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD <sup>1/</sup>
				MW-04	
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
Total Xylenes	mg/l	6200 B	< 0.0006	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

Jutarat Jaemruen

( Miss Jutarat Jaemruen )

Analyst

REG. NO. จ-239-จ-0022

Araya Tipparuk

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. จ-239-ท-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.:	1567/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 09:41-09:53
SAMPLING DATE	: 06/09/2023	ANALYTICAL DATE	: 11/09/2023
RECEIVED DATE	: 08/09/2023	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/09/2023	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

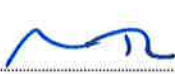
PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-04	STANDARD <sup>1/</sup>
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

  
( Miss Krisana Chanthoom )

Analyst

REG. NO. ว-239-จ-0017

  
( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ค-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1567/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:48-11:18
SAMPLING DATE	: 06/09/2023	ANALYTICAL DATE	: 16/09/2023
RECEIVED DATE	: 08/09/2023	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/09/2023	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1/</sup>
		METHODS	(non-detectable)	MW-06	
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
Total Xylenes	mg/l	6200 B	< 0.0006	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

Jutarat Jaemruen

( Miss Jutarat Jaemruen )

Analyst

REG. NO. ๖-239-๖-0022

Araya Tipparuk

( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-๖-0004

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.:	1567/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:48-11:18
SAMPLING DATE	: 06/09/2023	ANALYTICAL DATE	: 11/09/2023
RECEIVED DATE	: 08/09/2023	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/09/2023	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-06	STANDARD <sup>1/</sup>
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

  
( Miss Krisana Chanthoom )

Analyst

REG. NO. ๓-239-๓-0017

  
( Mrs. Araya Tipparuk )

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.:	1567/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 15:11-15:50
SAMPLING DATE	: 06/09/2023	ANALYTICAL DATE	: 16/09/2023
RECEIVED DATE	: 08/09/2023	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/09/2023	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS	ND	STATION	STANDARD <sup>1/</sup>
		METHODS	(non-detectable)	MW-08	
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
Total Xylenes	mg/l	6200 B	< 0.0006	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

Jutarat Jaemruen

( Miss Jutarat Jaemruen )

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REG. NO. จ-239-ท-0022

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GROUND WATER ANALYSIS REPORT

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SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 15:11-15:50
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REPORT DATE	: 20/09/2023	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-08	STANDARD <sup>1/</sup>
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

( Miss Krisana Chanthoom )

Analyst

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GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.:	1567/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:15-10:35
SAMPLING DATE	: 07/09/2023	ANALYTICAL DATE	: 16/09/2023
RECEIVED DATE	: 08/09/2023	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/09/2023	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		

PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION	STANDARD <sup>1/</sup>
				MW-09	
Benzene	mg/l	6200 B	< 0.0002	ND	≤ 0.2
Toluene	mg/l	6200 B	< 0.0002	ND	≤ 5.0
m-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
o-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
p-Xylene	mg/l	6200 B	< 0.0002	ND	≤ 24
Total Xylenes	mg/l	6200 B	< 0.0006	ND	≤ 24

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED. 2017 (AWWA, APHA, WEF)

Jutarat Jaemruen  
( Miss Jutarat Jaemruen )

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REG. NO. ว-239-ก-0022

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  3. <sup>1/</sup> Notification of the Ministry of Industry, B.E.2559 (2016).



บริษัท ซีคอต จำกัด  
SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND


TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

GROUND WATER ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.:	: 1567/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Pneumatic Bladder Pump
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:15-10:35
SAMPLING DATE	: 07/09/2023	ANALYTICAL DATE	: 11/09/2023
RECEIVED DATE	: 08/09/2023	SITE OPERATOR	: Mr. Jeerawat Khothamhan
REPORT DATE	: 20/09/2023	FILE CODE	: 223097_GW_September
SAMPLE CONDITION	: Normal		


PARAMETER	UNIT	ANALYSIS METHODS	ND (non-detectable)	STATION MW-09	STANDARD <sup>1/</sup>
Mercury (Hg)	mg/l	3112 B	< 0.0001	ND	≤ 0.7

REFERENCE : STANDARD METHODS FOR EXAMINATION OF WATER AND WASTEWATER 23<sup>rd</sup> ED., 2017 (AWWA, APHA, WEF)

  
( Miss Krisana Chanthoom )

Analyst

REG. NO. ว-239-จ-0017

  
( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ท-0004

- Remark :**
1. Reported analysis refers to submitted sample only.
  2. This report shall not be reproduced, except in full, without official approval.
  3. <sup>1/</sup> Notification of the Ministry of Industry, B.E.2559 (2016).

ภาคผนวก ง.2-6

ใบรับรองผลการตรวจวัดระดับเสียงทั่วไป



## Noise Monitoring Result : Community Noise MTR-PTTGC 5

Location : Noppakate Village

Monitor Period : 20-27 Nov 2023

SLM Model : RION NL-21

Serial No : 00487734

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74

Serial No : 34283648

Calibration Ref dB(A) : 94.0

Certified Date : 13 Jan 2023

SLM Reading / Adjust dB(A) : 93.8/0.2

Expire Date : 12 Jan 2024

Cal Sheet No.: NC-74-2023-054

Time	Equivalent Sound Pressure Level (dB(A))						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
16:00 - 17:00	51.7	54.7	54.5	52.7	54.6	54.1	53.9
17:00 - 18:00	53.7	53.7	54.6	57.3	55.2	54.7	54.3
18:00 - 19:00	53.5	52.4	52.9	54.9	57.3	55.9	56.8
19:00 - 20:00	51.4	53.8	52.8	55.9	56.6	55.8	54.9
20:00 - 21:00	51.8	49.3	50.7	54.1	55.1	54.8	56.2
21:00 - 22:00	49.1	48.7	48.8	53.2	54.8	53.4	54.9
22:00 - 23:00	49.1	47.9	51.6	49.7	51.7	52.0	54.4
23:00 - 00:00	45.8	46.5	49.9	48.6	50.3	54.0	53.2
00:00 - 01:00	46.6	45.1	48.8	48.3	48.6	49.8	49.9
01:00 - 02:00	46.1	45.3	50.1	46.7	47.5	49.2	49.0
02:00 - 03:00	47.6	48.8	52.1	48.6	45.5	47.3	48.2
03:00 - 04:00	50.3	50.1	54.3	45.3	45.1	47.1	46.9
04:00 - 05:00	53.4	52.1	56.0	48.9	46.7	47.8	46.5
05:00 - 06:00	56.0	52.6	55.5	50.3	48.3	49.2	44.6
06:00 - 07:00	55.6	55.2	54.4	52.6	51.0	50.9	48.0
07:00 - 08:00	52.9	55.5	53.8	55.2	52.8	52.6	49.3
08:00 - 09:00	55.3	53.9	53.2	56.6	54.6	55.2	52.1
09:00 - 10:00	52.3	52.5	54.3	53.9	56.8	55.5	54.6
10:00 - 11:00	54.0	52.4	54.0	53.2	54.4	54.4	56.8
11:00 - 12:00	53.1	53.6	53.1	54.0	52.5	53.2	54.4
12:00 - 13:00	52.3	54.6	53.1	53.2	53.3	54.0	52.4
13:00 - 14:00	53.3	53.9	53.1	53.7	53.8	52.4	52.3
14:00 - 15:00	51.7	54.3	54.1	53.1	52.9	53.6	53.4
15:00 - 16:00	56.6	54.9	52.8	54.1	53.1	54.6	52.7
Leq(24)*	52.7	52.7	53.2	53.2	53.4	53.3	53.2
Ldn	58.4	57.6	59.6	56.9	56.8	57.6	57.4
Lmax **	83.9	83.9	78.4	81.8	80.1	84.4	82.3
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 16:00-16:00

\*\* Maximum Sound Pressure Level between 16:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise MTR-PTTGC 5

Location : Noppakate Village

Monitor Period : 20-27 Nov 2023

SLM Model : RION NL-21

Serial No : 00487734

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74

Serial No : 34283648

Calibration Ref dB(A) : 94.0

Certified Date : 13 Jan 2023

SLM Reading / Adjust dB(A) : 93.8/0.2

Expire Date : 12 Jan 2024

Cal Sheet No.: NC-74-2023-054

Time	L90 (dB(A))						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
16:00 - 17:00	45.4	48.6	50.0	45.9	48.8	48.6	47.3
17:00 - 18:00	48.3	47.6	48.8	51.4	47.5	48.2	48.2
18:00 - 19:00	46.6	45.7	47.5	48.8	47.8	50.0	51.5
19:00 - 20:00	45.0	44.9	46.8	49.6	52.1	49.5	49.0
20:00 - 21:00	43.2	43.0	46.8	48.9	51.0	49.1	50.5
21:00 - 22:00	42.2	42.0	46.2	45.3	49.2	47.8	48.9
22:00 - 23:00	41.0	40.9	46.7	43.7	44.0	46.5	48.4
23:00 - 00:00	40.6	40.2	46.6	43.5	42.9	46.3	45.9
00:00 - 01:00	41.0	39.5	46.5	43.0	42.7	45.9	43.9
01:00 - 02:00	41.2	41.0	46.3	43.6	41.9	45.2	43.9
02:00 - 03:00	40.8	46.5	46.7	42.3	40.6	44.9	42.6
03:00 - 04:00	41.2	46.3	48.4	42.4	39.9	44.9	41.7
04:00 - 05:00	44.7	46.7	51.0	42.3	40.7	45.2	41.0
05:00 - 06:00	49.7	44.2	50.2	42.5	42.6	45.3	40.6
06:00 - 07:00	49.5	48.4	49.0	44.2	43.0	45.5	41.8
07:00 - 08:00	46.8	50.2	49.7	48.4	45.2	44.2	42.5
08:00 - 09:00	49.4	48.0	48.5	51.5	49.3	48.4	43.9
09:00 - 10:00	45.4	45.9	49.3	48.0	51.5	50.2	49.3
10:00 - 11:00	46.1	45.3	45.5	47.1	48.3	49.0	51.5
11:00 - 12:00	44.5	47.2	47.6	45.5	46.9	47.1	48.3
12:00 - 13:00	45.1	47.8	47.6	46.7	47.2	45.5	45.6
13:00 - 14:00	45.1	47.3	48.1	46.0	48.2	45.3	44.2
14:00 - 15:00	45.4	48.2	48.6	45.9	46.7	47.2	46.6
15:00 - 16:00	48.9	49.9	46.8	48.9	48.1	47.8	45.7
L90(avg)*	45.8	46.5	48.1	47.0	47.4	47.4	47.1

Remark : \* Average time between 16:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Community Noise MTR-PTTGC 5

Location : Ban Phak PTT

Monitor Period : 20-27 Nov 2023

SLM Model : RION NL-21

Serial No : 00187489

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74

Serial No : 34283648

Calibration Ref dB(A) : 94.0

Certified Date : 13 Jan 2023

SLM Reading / Adjust dB(A) : 93.5/0.5

Expire Date : 12 Jan 2024

Cal Sheet No.: NC-74-2023-054

Time	Equivalent Sound Pressure Level (dB(A))						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
16:00 - 17:00	53.9	54.0	52.9	53.0	57.9	52.4	51.3
17:00 - 18:00	53.4	53.6	54.2	53.5	52.8	53.0	55.9
18:00 - 19:00	52.6	60.1	53.3	56.3	52.3	52.5	52.2
19:00 - 20:00	51.7	52.8	53.5	52.4	53.4	52.8	51.6
20:00 - 21:00	49.6	49.8	51.1	52.3	55.3	50.3	52.0
21:00 - 22:00	47.4	48.4	50.5	50.9	53.2	51.1	50.7
22:00 - 23:00	46.5	47.0	48.0	49.7	50.3	50.2	50.5
23:00 - 00:00	46.4	47.6	48.8	48.2	50.0	47.2	48.5
00:00 - 01:00	44.7	45.1	46.4	47.2	48.4	46.6	48.4
01:00 - 02:00	44.6	44.3	45.5	46.1	47.9	45.0	46.1
02:00 - 03:00	45.3	45.8	46.0	46.3	54.7	46.2	45.9
03:00 - 04:00	47.1	46.6	46.3	46.7	45.6	44.8	45.4
04:00 - 05:00	50.4	49.6	47.4	48.2	45.4	44.2	43.8
05:00 - 06:00	53.8	53.1	54.0	48.6	46.5	47.7	44.6
06:00 - 07:00	54.1	53.4	61.0	53.4	48.4	49.4	48.4
07:00 - 08:00	52.9	54.9	53.8	55.2	51.1	50.7	49.4
08:00 - 09:00	52.4	53.5	56.2	54.6	53.1	53.6	52.5
09:00 - 10:00	52.2	52.4	53.6	54.1	57.2	55.6	56.2
10:00 - 11:00	51.2	52.4	52.4	54.1	54.5	56.1	58.1
11:00 - 12:00	51.6	50.2	52.0	54.0	54.0	52.2	52.9
12:00 - 13:00	53.7	51.6	52.0	51.8	53.5	54.0	53.8
13:00 - 14:00	52.0	52.5	52.0	51.7	53.1	52.9	53.3
14:00 - 15:00	53.6	56.3	55.1	52.2	51.7	51.9	51.9
15:00 - 16:00	52.3	53.0	51.6	52.4	52.5	57.9	52.5
Leq(24)*	51.5	52.8	53.2	52.3	52.9	52.2	52.1
Ldn	56.6	56.8	59.6	56.3	57.0	55.4	55.4
Lmax **	75.6	90.4	76.5	76.4	83.5	72.8	78.5
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 16:00-16:00

\*\* Maximum Sound Pressure Level between 16:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise

### MTR-PTTGC 5

Location : Ban Phak PTT

Monitor Period : 20-27 Nov 2023

SLM Model : RION NL-21

Serial No : 00187489

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74

Serial No : 34283648

Calibration Ref dB(A) : 94.0

Certified Date : 13 Jan 2023

SLM Reading / Adjust dB(A) : 93.5/0.5

Expire Date : 12 Jan 2024

Cal Sheet No.: NC-74-2023-054

Time	L90 (dB(A))						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
16:00 - 17:00	49.0	49.4	49.3	48.6	46.6	47.1	46.9
17:00 - 18:00	49.7	50.1	50.6	49.9	47.9	48.7	46.6
18:00 - 19:00	47.9	49.3	51.1	52.3	48.5	47.9	47.8
19:00 - 20:00	46.4	48.0	50.2	49.1	49.5	47.0	47.8
20:00 - 21:00	45.5	45.7	48.4	48.4	49.7	46.7	47.7
21:00 - 22:00	42.7	44.1	46.8	46.8	47.8	47.2	47.1
22:00 - 23:00	42.2	42.5	44.9	45.4	45.9	45.7	45.8
23:00 - 00:00	41.6	42.0	45.6	44.5	44.4	43.5	44.1
00:00 - 01:00	41.3	41.9	42.9	42.9	43.8	43.5	43.4
01:00 - 02:00	42.1	41.1	42.3	41.9	43.8	41.6	42.6
02:00 - 03:00	42.2	41.7	42.1	42.6	42.5	41.5	42.2
03:00 - 04:00	43.7	44.3	43.4	42.9	41.4	41.6	41.8
04:00 - 05:00	46.8	46.0	44.3	44.5	42.1	41.6	40.8
05:00 - 06:00	50.0	49.7	47.7	45.2	42.6	44.0	41.8
06:00 - 07:00	49.3	49.6	50.5	49.0	43.9	46.8	45.2
07:00 - 08:00	48.0	48.4	49.1	50.0	48.0	47.1	45.7
08:00 - 09:00	47.8	47.9	50.3	49.8	50.0	50.4	49.3
09:00 - 10:00	47.5	46.3	49.6	50.1	51.1	51.3	50.0
10:00 - 11:00	46.5	45.3	48.1	50.0	49.2	50.0	53.9
11:00 - 12:00	45.4	45.0	47.0	48.7	48.9	48.9	49.5
12:00 - 13:00	46.3	45.9	47.6	47.7	48.7	50.3	49.6
13:00 - 14:00	47.7	47.7	47.4	47.2	48.4	48.5	49.7
14:00 - 15:00	47.6	53.5	50.4	48.2	47.5	47.6	47.0
15:00 - 16:00	48.0	48.0	46.7	48.0	47.3	53.1	47.3
L90(avg)*	46.8	47.5	48.1	48.0	47.4	47.8	47.6

Remark : \* Average time between 16:00-16:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team





## Noise Monitoring Result : Community Noise

### MTR-PTTGC 5

Location : North of Fence

Monitor Period : 20-27 Nov 2023

SLM Model : RION NL-21

Serial No : 00521703

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74

Serial No : 34283648

Calibration Ref dB(A) : 94.0

Certified Date : 13 Jan 2023

SLM Reading / Adjust dB(A) : 93.5/0.5

Expire Date : 12 Jan 2024

Cal Sheet No.: NC-74-2023-054

Time	Equivalent Sound Pressure Level (dB(A))						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
15:00 - 16:00	55.2	53.0	53.0	50.9	50.4	51.8	51.4
16:00 - 17:00	53.7	53.6	52.7	52.4	50.9	51.8	51.1
17:00 - 18:00	52.3	53.7	52.3	53.8	50.8	51.5	50.5
18:00 - 19:00	53.9	55.0	53.9	52.0	52.2	52.0	50.4
19:00 - 20:00	57.0	53.5	53.6	55.6	53.5	54.8	50.3
20:00 - 21:00	56.4	53.6	53.8	53.6	53.5	53.6	51.0
21:00 - 22:00	54.3	53.3	54.3	53.8	53.0	54.1	52.0
22:00 - 23:00	54.2	52.3	53.8	54.3	53.0	54.2	51.6
23:00 - 00:00	53.3	53.4	53.1	53.8	53.3	53.6	51.2
00:00 - 01:00	53.5	53.9	52.9	53.1	54.7	53.4	50.7
01:00 - 02:00	53.3	53.7	52.4	52.9	54.2	53.1	51.4
02:00 - 03:00	53.3	53.4	52.3	52.4	53.5	52.3	51.5
03:00 - 04:00	53.7	53.7	53.5	52.3	53.4	52.5	51.1
04:00 - 05:00	54.4	54.2	53.1	53.5	52.9	52.4	51.0
05:00 - 06:00	54.7	54.9	53.2	53.1	52.6	52.4	51.0
06:00 - 07:00	54.2	54.5	53.8	53.2	52.6	52.5	51.1
07:00 - 08:00	53.1	51.9	52.1	53.8	53.1	52.5	50.9
08:00 - 09:00	56.5	53.1	52.0	52.1	53.1	53.0	51.1
09:00 - 10:00	55.9	51.6	51.6	52.0	53.7	53.1	52.2
10:00 - 11:00	52.1	52.4	51.2	51.6	52.8	52.9	53.4
11:00 - 12:00	52.1	51.7	51.0	51.2	52.3	52.4	53.0
12:00 - 13:00	51.8	52.3	51.1	51.0	52.6	52.3	51.6
13:00 - 14:00	54.5	53.9	51.5	51.1	51.7	51.4	51.4
14:00 - 15:00	60.6	53.3	50.4	50.5	51.2	50.8	51.4
Leq(24)*	54.8	53.4	52.7	52.8	52.8	52.8	51.4
Ldn	60.5	60.2	59.5	59.5	59.7	59.3	57.6
Lmax **	80.4	74.1	77.2	79.5	71.2	83.0	75.8
Standard-24Hr	70 dB(A)						
Standard-Max	115 dB(A)						

Remark : \* Average time between 15:00-15:00

\*\* Maximum Sound Pressure Level between 15:00-15:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team



## Noise Monitoring Result : Background Noise

### MTR-PTTGC 5

Location : North of Fence

Monitor Period : 20-27 Nov 2023

SLM Model : RION NL-21

Serial No : 00521703

Site Operator : Mr. Phuwadech Kaewjirakulsri

Calibrator Model : RION NC-74

Serial No : 34283648

Calibration Ref dB(A) : 94.0

Certified Date : 13 Jan 2023

SLM Reading / Adjust dB(A) : 93.5/0.5

Expire Date : 12 Jan 2024

Cal Sheet No.: NC-74-2023-054

Time	L90 (dB(A))						
	20-21 Nov 2023	21-22 Nov 2023	22-23 Nov 2023	23-24 Nov 2023	24-25 Nov 2023	25-26 Nov 2023	26-27 Nov 2023
15:00 - 16:00	53.3	50.9	51.0	48.8	48.6	49.6	49.5
16:00 - 17:00	50.7	51.7	50.1	51.0	48.5	49.9	48.6
17:00 - 18:00	50.4	52.0	50.4	52.5	49.0	50.0	48.4
18:00 - 19:00	50.6	53.4	50.6	50.7	49.9	49.9	48.6
19:00 - 20:00	55.3	52.4	52.8	51.8	51.1	51.7	48.5
20:00 - 21:00	55.2	52.5	52.6	52.8	51.1	52.5	48.9
21:00 - 22:00	53.4	51.9	53.6	52.6	51.6	53.1	49.0
22:00 - 23:00	53.2	51.2	53.0	53.6	52.0	53.3	49.6
23:00 - 00:00	52.1	52.4	52.3	53.0	52.6	52.8	49.6
00:00 - 01:00	52.5	53.0	52.1	52.3	54.1	52.5	49.7
01:00 - 02:00	52.4	52.8	51.5	52.1	53.6	52.2	50.3
02:00 - 03:00	52.4	52.6	51.4	51.5	52.6	50.3	49.5
03:00 - 04:00	52.9	52.8	52.8	51.4	52.6	51.7	49.7
04:00 - 05:00	53.4	53.2	52.0	52.8	52.0	51.6	49.7
05:00 - 06:00	53.3	53.5	52.0	52.0	51.6	51.4	50.0
06:00 - 07:00	52.5	52.1	51.9	52.0	51.5	51.5	50.0
07:00 - 08:00	50.6	49.8	50.5	51.9	52.4	51.5	50.1
08:00 - 09:00	52.2	49.4	50.1	50.5	52.0	51.9	50.2
09:00 - 10:00	51.6	49.9	49.7	50.1	51.9	51.5	50.8
10:00 - 11:00	49.1	49.3	49.4	49.7	51.0	50.8	51.2
11:00 - 12:00	50.1	49.4	48.9	49.4	50.5	50.6	49.8
12:00 - 13:00	49.8	50.4	48.6	48.9	50.4	50.0	49.1
13:00 - 14:00	50.2	50.6	50.0	48.6	49.8	49.8	49.1
14:00 - 15:00	49.6	51.4	48.6	48.4	49.6	48.3	49.1
L90(avg)*	52.3	51.8	51.3	51.4	51.5	51.4	49.6

Remark : \* Average time between 15:00-15:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Preeda Somjai)  
Technical Management Team

ภาคผนวก ง.2-7

ใบรับรองผลการตรวจวัดโลหะหนัก  
ในกากตะกอนจากระบบบำบัดน้ำเสีย



## บริษัท ซีคอต จำกัด SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

### SLUDGE SAMPLES ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 1726/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab Samplers
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 15:07
SAMPLING DATE	: 04/10/2023	ANALYTICAL DATE	: 09-12/10/2023
RECEIVED DATE	: 05/10/2023	SITE OPERATOR	: Mr.Chanapon Oakkharaplon
REPORT DATE	: 16/10/2023	FILE CODE	: 223097_Sludge_October
SAMPLE CONDITION	: Normal		

PARAMETER	UNITS	ANALYSIS METHODS	ND (non-detectable)	SAMPLING LOCATION		STANDARD
				ภาคตะกอนจากระบบบำบัดน้ำเสีย จากหน่วย Desalter		
Mercury (Hg)	TTLIC	mg/kg	7471 B	< 0.05	59.74	-
	STLC	mg/l	7470 A	< 0.0005	0.5786	-

Reference method :Test Methods of Evaluating Solid Waste , Physical/Chemical Methods SW-846 , 3<sup>rd</sup> edition, US.EPA 2020,

Ministry of Industry Disposal of waste or unused materials ,B.E.2548 (2005).



( Miss Krisana Chanthoom )

Analyst

REG. NO. ว-239-ท-0017



( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ว-239-ท-0004

**Remark :** 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduce, except in full, without official approval.

3. TTLIC = Total Threshold Limit Concentration (mg/kg) , STLC = Soluble Threshold Limit Concentration (mg/l).

4. - Not available.



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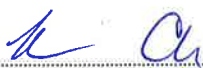
SLUDGE SAMPLES ANALYSIS REPORT

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REQUEST SERVICE No.	: 2235/66
	(Branch 5 : Aromatics 2 Plant)	SAMPLING METHOD	: Grab Samplers
SAMPLING BY	: SECOT Co., Ltd.	SAMPLING TIME	: 10:00
SAMPLING DATE	: 19/12/2023	ANALYTICAL DATE	: 21-26/12/2023
RECEIVED DATE	: 21/12/2023	SITE OPERATOR	: -
REPORT DATE	: 28/12/2023	FILE CODE	: 223097_Sludge_December
SAMPLE CONDITION	: Normal		

PARAMETER		UNITS	ANALYSIS	ND	SAMPLING LOCATION	STANDARD
			METHODS	(non-detectable)	ภาคตะกอนจากระบบบำบัดน้ำเสีย (ETP)	
Mercury (Hg)	TTLIC	mg/kg	7471 B	< 0.05	39.38	-
	STLC	mg/l.	7470 A	< 0.0005	0.0184	-


Reference method : Test Methods of Evaluating Solid Waste , Physical/Chemical Methods SW-846 , 3<sup>rd</sup> edition, US EPA 2020.

Ministry of Industry Disposal of waste or unused materials , B.E.2548 (2005).

  
( Miss Krisana Chanthoom )

Analyst

REG. NO. ๖-239-๓-0017

  
( Mrs. Araya Tipparuk )

Technical Management Team

REG. NO. ๖-239-๓-0004

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4. - Not available.

ภาคผนวก ง.2-8

ใบรับรองผลการตรวจวัดคุณภาพอากาศภายในสถานประกอบการ

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แบบติดตั้งกับพื้นที่





บริษัท ซีคอต จำกัด  
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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 1623/66
For	: PTT Global Chemical Public Co., Ltd ( Branch 5 : Aromatics 2 Plant)	Sampling Date	: 13-14/09/2023
Address	: 96/9 Rayong Highway Road 3191, RIL Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150	Received Date	: 16/09/2023
		Test Date	: 18/09/2023
Tel/Fax	: +66(0) 3897-3000/+66(0) 3897-3353	Report Date	: 25/09/2023

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Aromatics 1	14/09/2023	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
	09:59-13:59	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
Reformer 1	13/09/2023	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
	09:17-13:17	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
Utility Area	13/09/2023	Benzene	NIOSH 1501/GC FID	< 0.02	0.12	1
	09:49-13:49	Toluene	NIOSH 1501/GC FID	< 0.02	0.06	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	0.08	100
Laboratory Area	14/09/2023	Benzene	NIOSH 1501/GC FID	< 0.02	0.07	1
	10:12-14:12	Toluene	NIOSH 1501/GC FID	< 0.02	0.09	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	0.05	100

Analyst By :

Sudaporn S.

( Miss Sudaporn Soonthorn )

Approved By :

Narisa Poowasanpet

( Miss Narisa Poowasanpet )

Technical Management Team

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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 1623/66
For	: PTT Global Chemical Public Co., Ltd ( Branch 5 : Aromatics 2 Plant)	Sampling Date	: 14/09/2023
Address	: 96/9 Rayong Highway Road 3191, RIL Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150	Received Date	: 16/09/2023
		Test Date	: 18/09/2023
Tel/Fax	: +66(0) 3897-3000/+66(0) 3897-3353	Report Date	: 25/09/2023

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Tank Farm	14/09/2023	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
	10:53-14:53	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

Approved By : Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
Technical Management Team

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 1623/66
For	: PTT Global Chemical Public Co., Ltd ( Branch 5 : Aromatics 2 Plant)	Sampling Date	: 14/09/2023
Address	: 96/9 Rayong Highway Road 3191, RIL Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150	Received Date	: 16/09/2023
Tel/Fax	: +66(0) 3897-3000/+66(0) 3897-3353	Test Date	: 18/09/2023
		Report Date	: 25/09/2023

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sampling Bag
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Tank Farm	14/09/2023 10:53-11:08	NMHC	THC Analyzer / FID	< 0.05	0.96	

Analyst By :

Sudaporn S.

( Miss Sudaporn Soonthorn )

Approved By :

Narisa Poowasanpetch

( Miss Narisa Poowasanpetch )

Technical Management Team

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

### ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 2076/66
For	: PTT Global Chemical Public Co., Ltd ( Branch 5 : Aromatics 2 Plant)	Sampling Date	: 21-22/11/2023
Address	: 96/9 Rayong Highway Road 3191, RIL Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150	Received Date	: 27/11/2023
		Test Date	: 01/12/2023
Tel/Fax	: +66(0) 3897-3000/+66(0) 3897-3353	Report Date	: 08/12/2023

#### SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Aromatics 1	22/11/2023	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
	10:00-14:00	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
Reformer 1	21/11/2023	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
	10:44-14:44	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
Utility Area	21/11/2023	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
	10:00-14:00	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100
Laboratory Area	22/11/2023	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
	10:50-14:50	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100

Analyst By :

*Sudaporn S.*

( Miss Sudaporn Soonthorn )

Approved By :

*Narisa Poowasanpetch*

( Miss Narisa Poowasanpetch )

Technical Management Team

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4. ND = non-detectable.



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239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

### ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 2076/66
For	: PTT Global Chemical Public Co., Ltd ( Branch 5 : Aromatics 2 Plant)	Sampling Date	: 22/11/2023
Address	: 96/9 Rayong Highway Road 3191, RIL Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150	Received Date	: 27/11/2023
		Test Date	: 01/12/2023
Tel/Fax	: +66(0) 3897-3000/+66(0) 3897-3353	Report Date	: 08/12/2023

#### SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sorbent Adsorption
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Tank Farm	22/11/2023	Benzene	NIOSH 1501/GC FID	< 0.02	ND	1
	11:00-15:00	Toluene	NIOSH 1501/GC FID	< 0.02	ND	200
		Total xylene	NIOSH 1501/GC FID	< 0.03	ND	100

Analyst By : Sudaporn S.  
( Miss Sudaporn Soonthorn )

Approved By : Narisa Poowasanpetch  
( Miss Narisa Poowasanpetch )  
Technical Management Team

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 2076/66
For	: PTT Global Chemical Public Co., Ltd ( Branch 5 : Aromatics 2 Plant)	Sampling Date	: 22/11/2023
Address	: 96/9 Rayong Highway Road 3191, RIL Industrial Estate, Map Ta Phut, Muang Rayong, Rayong 21150	Received Date	: 27/11/2023
Tel/Fax	: +66(0) 3897-3000/+66(0) 3897-3353	Test Date	: 29/11/2023
		Report Date	: 08/12/2023

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Sampling Bag
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
Tank Farm	22/11/2023 11:00-11:15	NMHC	THC Analyzer / FID	< 0.05	0.15	-

Analyst By :

Sudaporn S.

( Miss Sudaporn Soonthorn )

Approved By :

Narisa Poowasanpetch

( Miss Narisa Poowasanpetch )

Technical Management Team

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4. - No Standard.

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## แบบติดตัวบุคคล





# บริษัท ซีคอต จำกัด SECOT CO., LTD.

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

## ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 1624/66
For	: PTT Global Chemical Public Co.,Ltd. (Branch 5 : Aromatics 2 Plant)	Sampling Date	: 13-14/09/2023
Address	: 98/9 Rayong Highway Road 3191 , RIL Industrial Estate , Map Ta Phut , Muang Rayong , Rayong 21150 Thailand	Received Date	: 16/09/2023
		Test Date	: 19/09/2023
Tel/Fax	: 0-3899-4000 / 0-3899-4111	Report Date	: 27/09/2023

### SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID, 26002196	13/09/2023	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Reformer 1	09:20-13:20	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID, 26001119	14/09/2023	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Aromatic 1	09:32-13:32	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID, 26001271	13/09/2023	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Utility Field Operator	09:35-13:35	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID, 26002505	14/09/2023	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Laboratory Technician	10:16-14:16	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID, 26001486	14/09/2023	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Tank Farm	10:33-14:33	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100

Analyst By :

Sudaporn S.

( Miss Sudaporn Soonthorn )

Approved By :

Narisa Poowasanpet

( Miss Narisa Poowasanpet )

Technical Management Team

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TEL. (662) 959-3600 FAX (662) 959-3535 Website : secot.co.th E-mail : envserv@secot.co.th

ANALYSIS/TEST REPORT

Customer	: RND/SECOT Co., Ltd.	Request Service No.	: 2077/66
For	: PTT Global Chemical Public Co.,Ltd. (Branch 5 : Aromatics 2 Plant)	Sampling Date	: 21-22/11/2023
Address	: 98/9 Rayong Highway Road 3191 , RIL Industrial Estate , Map Ta Phut , Muang Rayong , Rayong 21150 Thailand	Received Date	: 27/11/2023
Tel/Fax	: 0-3899-4000 / 0-3899-4111	Test Date	: 01-02/12/2023
		Report Date	: 08/12/2023

SAMPLE DESCRIPTION / SAMPLING INFORMATION

Sample Designated As	: Workplace Air	Sampling Method	: Passive Diffusion
Sampling By	: SECOT Co., Ltd.	Sample Condition	: Normal

Sampling Location	Sampling Date/Time	Compound	Analytical Method	ND	RESULT	STANDARD
				ppm	ppm	ppm
ID. 26002444	21/11/2023	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Reformer 1	10:14-18:14	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26002460	22/11/2023	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Aromatic 1	08:44-16:44	Toluene	OSHA 111/GC FID	< 0.04	0.20	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26002477	21/11/2023	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Utility Field Operator	10:27-18:27	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26002412	22/11/2023	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Laboratory Technician	10:08-18:08	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100
ID. 26002066	22/11/2023	Benzene	OSHA 1005/GC FID	< 0.04	ND	1
Area : Tank Farm	10:24-18:24	Toluene	OSHA 111/GC FID	< 0.04	ND	200
		Total xylene	OSHA 1002/GC FID	< 0.08	ND	100

Analyst By :

Sudaporn S.

( Miss Sudaporn Soonthorn )

Approved By :

Narisa Poowasanpetch

( Miss Narisa Poowasanpetch )

Technical Management Team

Remark : 1. Reported analysis refers to submitted sample only.

2. This report shall not be reproduced, except in full, without official approval.

3. Notification of the Department of Labour Protection and Welfare, B.E.2560 (2017).

4. ND = non-detectable.

ภาคผนวก ง.2-9

ใบรับรองผลการตรวจวัดระดับเสียงภายในสถานประกอบการ



## Noise Monitoring Result : Working Noise MTR-PTTGC 5

Location : Aromatics 1

Monitor Period : Nov 22, 2023

SLM Model : SCARLET ST-21D

Serial No : 820727

Site Operator : Miss.Wiraya Patchimboon

Calibrator Model : Cirrus CR:515

Serial No : 94296

Calibration Ref dB(A) : 94.0

Certified Date : Dec 20, 2022

SLM Reading / Adjust dB(A) : 93.8/0.0

Expire Date : Dec 19, 2023

Cal Sheet No.: CR-515-2023-218

Time	Equivalent Sound Pressure Level (dB(A))	
	Nov 22, 2023	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00		
09:00 - 10:00	82.3	
10:00 - 11:00	81.8	
11:00 - 12:00	81.7	
12:00 - 13:00	81.8	
13:00 - 14:00	81.8	
14:00 - 15:00	81.7	
15:00 - 16:00	81.7	
16:00 - 17:00	81.8	
17:00 - 18:00	81.8	
18:00 - 19:00	81.8	
19:00 - 20:00	81.7	
20:00 - 21:00	81.8	
21:00 - 22:00		
22:00 - 23:00		
23:00 - 24:00		
Leq(12)*	81.8	
Lmax **	93.8	
Standard-12Hr	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : \* Average time between 09:00-21:00

\*\* Maximum Sound Pressure Level between 09:00-21:00

(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

(Miss Sununta Sirawuttinanon)  
Technical Management Team



## Noise Monitoring Result : Working Noise MTR-PTTGC 5

Location : Reformer 1

Monitor Period : Nov 21, 2023

SLM Model : SCARLET ST-21D

Serial No : 820723

Site Operator : Miss.Wiraya Patchimboon

Calibrator Model : Cirrus CR:515

Serial No : 94296

Calibration Ref dB(A) : 94.0

Certified Date : Dec 20, 2022

SLM Reading / Adjust dB(A) : 93.7/0.1

Expire Date : Dec 19, 2023


Cal Sheet No.: CR-515-2023-217

Time	Equivalent Sound Pressure Level (dB(A))	
	Nov 21, 2023	
00:00 - 01:00		
01:00 - 02:00		
02:00 - 03:00		
03:00 - 04:00		
04:00 - 05:00		
05:00 - 06:00		
06:00 - 07:00		
07:00 - 08:00		
08:00 - 09:00		
09:00 - 10:00		
10:00 - 11:00	81.5	
11:00 - 12:00	81.7	
12:00 - 13:00	81.8	
13:00 - 14:00	81.7	
14:00 - 15:00	81.6	
15:00 - 16:00	81.7	
16:00 - 17:00	81.7	
17:00 - 18:00	81.6	
18:00 - 19:00	81.7	
19:00 - 20:00	81.7	
20:00 - 21:00	81.7	
21:00 - 22:00	81.7	
22:00 - 23:00		
23:00 - 24:00		
Leq(12)*	81.7	
Lmax **	90.5	
Standard-12Hr	87 dB(A)	
Standard-Max	140 dB(A)	

Remark : \* Average time between 10:00-22:00

\*\* Maximum Sound Pressure Level between 10:00-22:00

  
(Miss Katesarin Vorradetwittaya)  
Environmental Scientist

  
(Miss Sununta Sirawuttinanon)  
Technical Management Team

ภาคผนวก ง.2-10

ใบรับรองผลการตรวจวัดปริมาณเสียงสะสมที่ตัวพนักงาน



บริษัท ซีคอต จำกัด

SECOT CO., LTD.

239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพฯ 10800

239 RIMKLONGPRAPA ROAD, BANGSUE, BANGKOK 10800, THAILAND

TEL : +66(0) 2959-3600 FAX : +66(0) 2959-3535 E-mail : envserv@secot.co.th

## NOISE MEASUREMENT REPORT : NOISE DOSE

CLIENT NAME	: PTT Global Chemical Public Co., Ltd.	REFERENCE NO.	: 223097/MON2H/Noise Dose
	: (Branch 5 : Aromatics 2 Plant)		
MEASUREMENT BY	: SECOT Co., Ltd.	INSTRUMENT	: Noise Dosimeter
MEASUREMENT DATE	: 21-22/11/2023	CALIBRATOR TYPE	: Cirrus RC:110A
MEASUREMENT LOCATION	: PTTGC5	SERIAL NO.	: 95168
SITE OPERATOR	: Miss Wiraya Patchimboon	CALIBRATOR REF.	: 114 dB @ 1kHz

USER NAME	AREA/PLANT	SOUND PRESSURE LEVEL (dB(A))		
		TWA (12-hr)	%DOSE	STANDARD *
ID:26002460	Aromatics 1	75.2	15.6	83.0
ID:26002182	Aromatics 2	77.3	25.7	83.0
ID:26001411	Aromatics 3	82.5	85.8	83.0
ID:26002444	Reformer 1	70.2	5.0	83.0
ID:26002456	Reformer 3	70.0	4.8	83.0
ID:26002477	Utility	58.8	0.4	83.0

(Miss Katesarin Vorradetwittaya)

Environmental Scientist

(Miss Sununta Sirawuttinanon)

Technical Management Team

- Remark :**
1. Reported analysis refers to submitted sample only.
  2. This report shall not be reproduced, except in full, without official approval.
  - 3.\* Notification of Department of Labour Protection and Welfare B.E.2561 (2018).
  4. TWA means Time Weighted Average.