ภาคผนวก ค

ใบรับรองผลการตรวจวิเคราะห์คุณภาพสิ่งแวดล้อม

ผลการทดสอบคุณภาพอากาศในบรรยากาศ

ช่วงระหว่างการก่อสร้าง

บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด
683 หมู่ 11 ถ.สุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
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Request No. ATR6611054

Report No. 6611-0857 - 6611-0863

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch17		
ADDRESS	: 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณพื้นที่ก่อสร้าง		
RECEIVED DATE	: 29/11/2023	SAMPLE NO.	: A66110857 - A66110863
TESTED DATE	: 29/11/2023-30/11/2023	REPORTED DATE	: 04/12/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD[1]	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	16-17/11/2023	0.059	0.33	mg/m^3
		17-18/11/2023	0.091	0.33	mg/m^3
		18-19/11/2023	0.076	0.33	mg/m^3
		19-20/11/2023	0.070	0.33	mg/m^3
		20-21/11/2023	0.111	0.33	mg/m^3
		21-22/11/2023	0.089	0.33	mg/m^3
		22-23/11/2023	0.078	0.33	mg/m^3

REMARK: [1] Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Miss Thanatporn Klinsopon)

04/12/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
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Request No. ATR6611054

Report No. 6611-0864 - 6611-0870

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch17		
ADDRESS	: 7 I-1 Rd. Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: โรงเรียนบ้านหนองแฟบ		
RECEIVED DATE	: 29/11/2023	SAMPLE NO.	: A66110864 - A66110870
TESTED DATE	: 29/11/2023-30/11/2023	REPORTED DATE	: 04/12/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD[1]	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	16-17/11/2023	0.049	0.33	mg/m^3
		17-18/11/2023	0.066	0.33	mg/m^3
		18-19/11/2023	0.080	0.33	mg/m^3
		19-20/11/2023	0.086	0.33	mg/m^3
		20-21/11/2023	0.089	0.33	mg/m^3
		21-22/11/2023	0.092	0.33	mg/m^3
		22-23/11/2023	0.097	0.33	mg/m^3

REMARK: [1] Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)

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(Miss Thanatporn Klinsopon)

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Wind Speed & Wind Direction

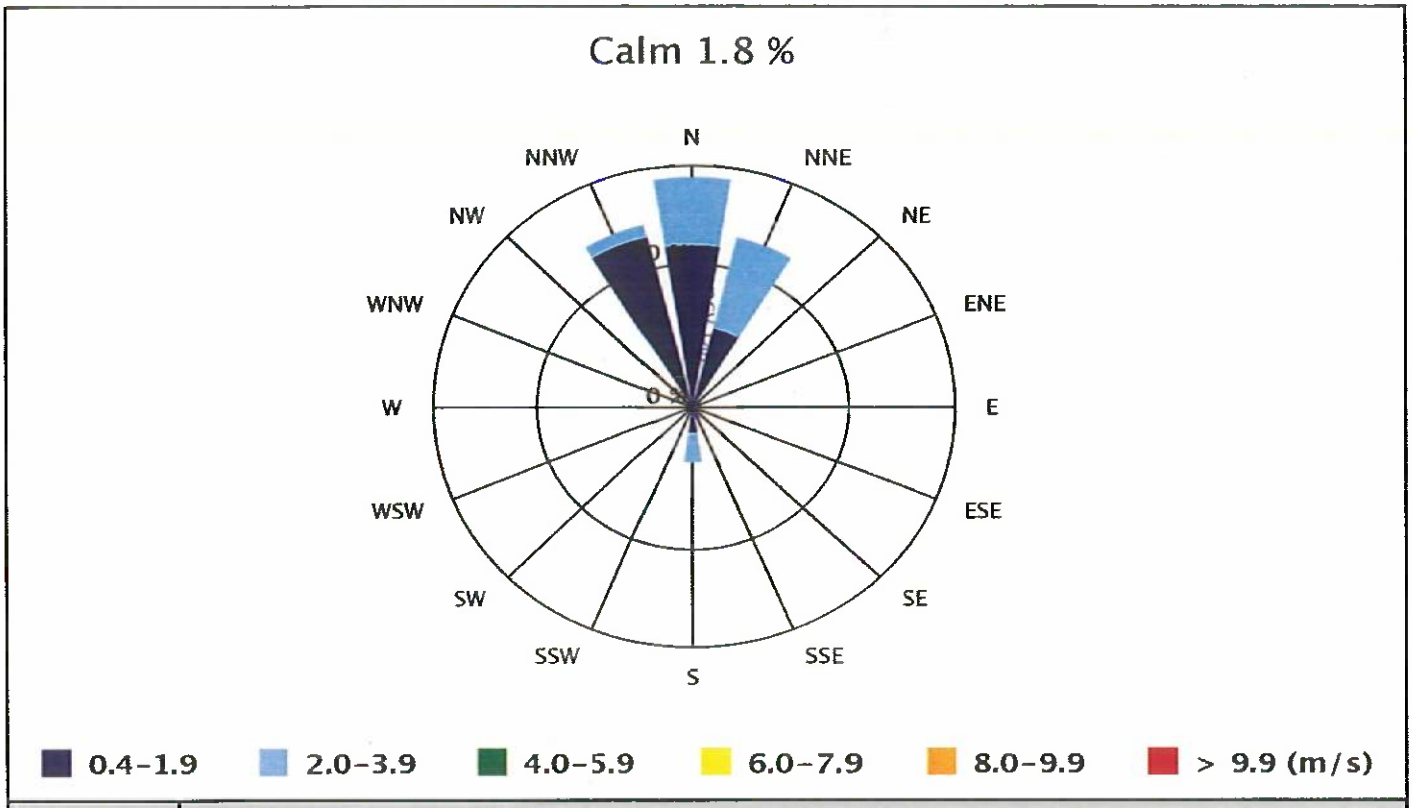
Request No. LA66-R1176

Sample No. 33846

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sampling Source : บริเวณพื้นที่ก่อสร้าง

Sampling Date : November 16-23, 2023



WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	Total
N	22.6	9.5	0.0	0.0	0.0	0.0	32.1
NNE	11.3	13.1	0.0	0.0	0.0	0.0	24.4
NE	0.6	0.0	0.0	0.0	0.0	0.0	0.6
ENE	1.2	0.0	0.0	0.0	0.0	0.0	1.2
E	0.0	0.6	0.0	0.0	0.0	0.0	0.6
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	1.2	0.0	0.0	0.0	0.0	0.0	1.2
SSE	1.8	0.0	0.0	0.0	0.0	0.0	1.8
S	3.6	4.2	0.0	0.0	0.0	0.0	7.8
SSW	1.2	0.0	0.0	0.0	0.0	0.0	1.2
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
NNW	24.4	1.8	0.0	0.0	0.0	0.0	26.2
Calm	1.8						

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Wind Speed & Wind Direction

Request No. LA66-R1176

Sample No. 33846

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sampling Source : บริเวณพื้นที่ก่อสร้าง

Sampling Date : November 16-23, 2023

Time	November 16-17, 2023		November 17-18, 2023		November 18-19, 2023		November 19-20, 2023		November 20-21, 2023		November 21-22, 2023		November 22-23, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.0	-	2.2	N	2.7	NNE	2.2	N	2.2	NNW	1.8	NNW	1.3	N
11:00-12:00	0.0	-	2.7	N	2.7	NNE	2.2	N	2.2	N	1.3	N	1.3	NNE
12:00-13:00	0.4	NNE	2.7	N	2.7	NNE	2.7	NNE	2.7	NNE	1.8	N	1.3	NNE
13:00-14:00	2.2	NNE	2.7	N	2.2	NNE	2.2	NNE	1.8	N	1.8	NNE	1.3	NNE
14:00-15:00	2.2	E	2.2	N	2.2	N	1.8	NNE	1.8	NW	1.3	NNE	1.8	S
15:00-16:00	1.8	NNE	2.2	NNE	1.8	NNE	1.8	NNE	1.8	NNE	1.3	N	2.7	S
16:00-17:00	1.8	SSE	2.2	N	1.8	NNW	1.8	N	0.9	N	1.3	NNE	2.7	S
17:00-18:00	1.8	SE	1.8	N	1.8	NNW	1.8	N	2.2	S	1.8	S	2.2	S
18:00-19:00	1.3	NNW	1.8	N	1.8	NNE	1.8	N	1.8	S	2.2	S	2.7	S
19:00-20:00	1.3	NNW	2.2	N	1.8	NNE	1.8	N	1.8	SSE	1.8	S	2.2	S
20:00-21:00	0.4	NNW	2.2	N	1.8	NNW	1.8	NNE	0.9	SSE	1.3	S	0.9	WSW
21:00-22:00	0.9	NNW	1.8	NNE	1.8	N	1.8	N	0.4	S	0.0	-	0.9	SSW
22:00-23:00	0.9	N	1.8	NNE	1.3	N	1.8	NNE	1.3	N	0.4	NNW	0.4	SSW
23:00-00:00	1.3	N	2.7	NNE	1.3	N	1.3	NNW	0.9	NNW	0.9	NNW	0.9	SE
00:00-01:00	1.3	N	2.7	NNE	1.3	N	0.9	NNW	0.9	NNW	1.3	NNW	0.4	ENE
01:00-02:00	1.8	N	2.2	N	1.3	N	1.3	NNW	0.9	NNW	0.9	NNW	0.4	ENE
02:00-03:00	1.8	NNE	2.2	NNW	1.3	NNW	1.3	NNW	1.3	NNW	0.9	NNW	0.4	NNW
03:00-04:00	1.8	NE	2.2	NNE	1.3	NNW	1.8	NNW	1.3	NNW	0.9	N	0.9	NNW
04:00-05:00	2.2	N	2.7	NNE	1.3	NNW	1.8	NNW	1.3	NNW	1.3	N	1.3	NNW
05:00-06:00	2.7	NNE	2.7	NNE	1.8	N	1.8	N	1.3	NNW	1.3	N	0.9	NNW
06:00-07:00	2.2	NNE	3.1	NNE	1.3	N	1.8	N	1.8	NNW	0.9	NNW	0.9	NNW
07:00-08:00	2.2	NNE	2.2	NNE	1.8	N	1.3	N	1.3	NNW	0.9	NNW	0.9	N
08:00-09:00	2.7	NNE	2.7	NNE	2.2	NNW	1.8	N	1.3	N	1.3	N	1.3	N
09:00-10:00	2.7	N	2.7	NNE	2.2	N	1.8	NNW	1.8	NNW	1.3	NNW	1.3	N

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Wind Speed & Wind Direction

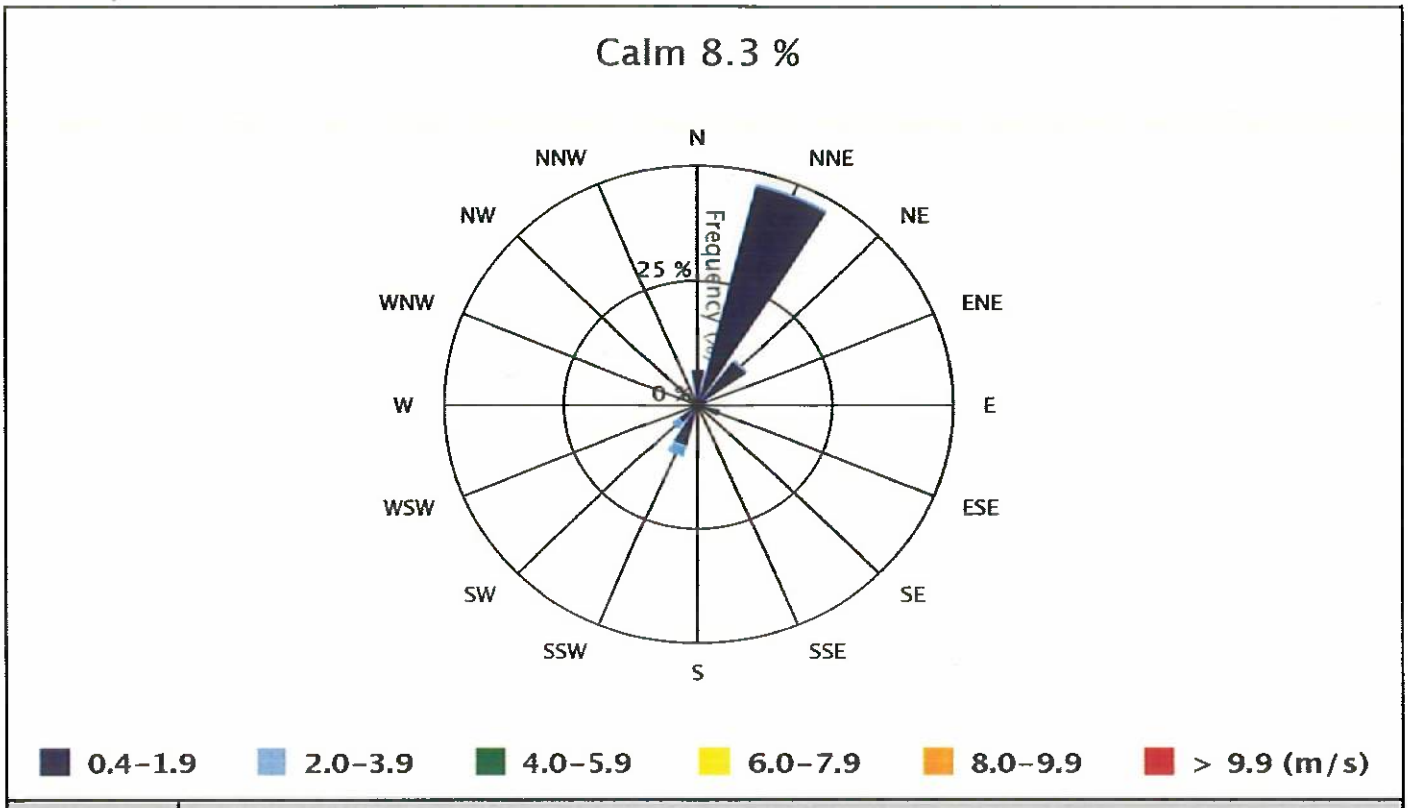
Request No. LA66-R1176

Sample No. 33845

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sampling Source : โรงเรียนบ้านหนองแฟบ

Sampling Date : November 16-23, 2023



WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	Total
N	7.1	0.0	0.0	0.0	0.0	0.0	7.1
NNE	45.2	0.6	0.0	0.0	0.0	0.0	45.8
NE	10.7	0.6	0.0	0.0	0.0	0.0	11.3
ENE	1.8	0.6	0.0	0.0	0.0	0.0	2.4
E	0.6	0.0	0.0	0.0	0.0	0.0	0.6
ESE	4.2	0.0	0.0	0.0	0.0	0.0	4.2
SE	0.6	0.0	0.0	0.0	0.0	0.0	0.6
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.6	0.0	0.0	0.0	0.0	0.0	0.6
SSW	8.3	2.4	0.0	0.0	0.0	0.0	10.7
SW	4.2	1.8	0.0	0.0	0.0	0.0	6.0
WSW	1.2	0.0	0.0	0.0	0.0	0.0	1.2
W	0.6	0.0	0.0	0.0	0.0	0.0	0.6
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
Calm	8.3						

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Wind Speed & Wind Direction

Request No. LA66-R1176

Sample No. 33845

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sampling Source : โรงเรียนบ้านหนองแฟบ

Sampling Date : November 16-23, 2023

Time	November 16-17, 2023		November 17-18, 2023		November 18-19, 2023		November 19-20, 2023		November 20-21, 2023		November 21-22, 2023		November 22-23, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	1.3	NE	1.8	NE	1.3	NNE	1.3	NNE	1.8	NNE	1.3	NNE	1.8	SSW
11:00-12:00	1.8	ENE	1.8	NE	1.3	NNE	1.3	N	1.3	NNE	1.3	NNE	0.9	SSW
12:00-13:00	1.3	ENE	2.2	ENE	1.3	NNE	1.3	NNE	0.9	NE	0.9	NNE	0.9	SSW
13:00-14:00	1.3	ESE	1.8	NE	1.3	NE	0.9	NE	0.9	N	0.9	ENE	0.4	SSW
14:00-15:00	1.8	ESE	1.3	NE	0.9	N	0.9	N	0.9	SSW	0.9	SSW	0.0	-
15:00-16:00	1.3	ESE	1.3	NNE	0.9	NE	0.9	NNE	0.9	S	0.4	SSW	0.0	-
16:00-17:00	0.4	N	1.3	NNE	0.9	NNE	0.9	NNE	1.3	SE	1.3	SSW	0.4	NNW
17:00-18:00	0.0	-	1.3	NNE	0.9	NNE	0.9	NNE	0.9	ESE	0.0	-	0.4	ESE
18:00-19:00	0.0	-	1.3	NNE	0.9	NNE	0.9	NNE	0.4	ESE	0.0	-	0.0	-
19:00-20:00	0.4	NE	0.9	NNE	0.9	N	0.4	NNE	0.0	-	0.9	SW	0.0	-
20:00-21:00	0.4	NNE	1.3	NNE	0.4	NNE	0.4	NE	0.4	NNE	0.4	SSW	0.0	-
21:00-22:00	0.9	NNE	0.9	NNE	0.4	N	0.0	-	0.4	NNE	0.9	SSW	0.0	-
22:00-23:00	0.4	NNE	1.3	NNE	0.9	NNE	0.4	NNE	0.4	NNE	0.9	SSW	0.0	-
23:00-00:00	0.4	NE	1.3	NNE	0.9	NNE	0.4	NNE	0.4	N	0.9	SW	0.4	NE
00:00-01:00	1.8	NE	1.3	NNE	0.4	N	0.4	NNE	0.4	N	0.4	ESE	0.4	SW
01:00-02:00	1.8	NE	0.9	NNE	0.4	NNE	0.9	NNE	0.4	N	0.4	E	1.3	WSW
02:00-03:00	0.9	NNE	0.9	NNE	0.9	NNE	0.9	NNE	0.0	-	0.4	SW	1.8	SW
03:00-04:00	1.3	NNE	0.9	NNE	0.9	NNE	0.9	NNE	0.4	NNE	0.9	SSW	2.2	SW
04:00-05:00	1.3	NE	1.3	NNE	0.9	NNE	0.9	NNE	0.4	NNE	0.9	WSW	2.2	SW
05:00-06:00	0.9	NE	1.3	NNE	1.3	NNE	0.9	NNE	0.4	NNE	1.3	SW	2.7	SW
06:00-07:00	1.3	NNE	1.3	NNE	0.9	NNE	0.9	NNE	0.4	N	0.9	W	2.7	SSW
07:00-08:00	1.8	NNE	1.3	NNE	1.3	NNE	1.3	NNE	0.9	NNE	1.3	SW	2.2	SSW
08:00-09:00	2.2	NNE	1.8	NE	1.8	NNE	1.8	NNE	1.3	NNE	2.2	SSW	1.8	SSW
09:00-10:00	2.2	NE	1.8	NNE	1.8	NNE	1.8	NNE	1.3	NNE	2.2	SSW	1.3	SSW

ผลการตรวจวัดระดับเสียงโดยทั่วไป

ช่วงระหว่างการก่อสร้าง

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Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R1176
Report No. R6611-1534

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	33831
DETERMINATION METHOD	:	ISO 1996-1:2016	MEASURING DATE	:	16-17/11/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	23/11/2023
		S/N 01120953 : Class 1	REPORTED DATE	:	29/11/2023

TIME \ DATE	16-17/11/2023 (L_{eq})	16-17/11/2023 (L_{max})	16-17/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	59.6	73.5	58.1	dB(A)
11:00 - 12:00	59.6	72.0	58.0	dB(A)
12:00 - 13:00	57.8	75.7	55.7	dB(A)
13:00 - 14:00	58.6	76.7	57.3	dB(A)
14:00 - 15:00	68.6	83.5	65.5	dB(A)
15:00 - 16:00	59.9	77.3	58.5	dB(A)
16:00 - 17:00	59.5	75.3	57.9	dB(A)
17:00 - 18:00	59.3	72.3	57.9	dB(A)
18:00 - 19:00	60.4	69.2	58.9	dB(A)
19:00 - 20:00	59.9	70.8	58.2	dB(A)
20:00 - 21:00	58.0	72.9	56.6	dB(A)
21:00 - 22:00	57.3	72.9	56.4	dB(A)
22:00 - 23:00	58.7	69.5	57.6	dB(A)
23:00 - 00:00	58.6	71.2	57.3	dB(A)
00:00 - 01:00	56.9	66.2	56.2	dB(A)
01:00 - 02:00	56.4	70.2	55.9	dB(A)
02:00 - 03:00	58.2	66.7	57.0	dB(A)
03:00 - 04:00	58.0	65.5	56.9	dB(A)
04:00 - 05:00	56.4	63.9	55.7	dB(A)
05:00 - 06:00	57.4	68.6	56.6	dB(A)
06:00 - 07:00	60.7	75.7	59.0	dB(A)
07:00 - 08:00	62.0	73.1	59.9	dB(A)
08:00 - 09:00	60.4	79.1	58.2	dB(A)
09:00 - 10:00	60.6	75.8	57.7	dB(A)
L_{eq} 24 hr.	60.4	-	-	dB(A)
L_{dn}	65.2	-	-	dB(A)
Maximum	-	83.5	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
29/11/2023

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FM-LAB-036/0/01-08-47

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ACCREDITED LABORATORY ISO/IEC 17025

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R1176
Report No. R6609-01535

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	33832
DETERMINATION METHOD	:	ISO 1996-1:2016	MEASURING DATE	:	17-18/11/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	23/11/2023
		S/N 01120953 : Class 1	REPORTED DATE	:	29/11/2023

TIME \ DATE	17-18/11/2023 (L_{eq})	17-18/11/2023 (L_{max})	17-18/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	61.4	76.6	58.0	dB(A)
11:00 - 12:00	59.1	71.8	57.4	dB(A)
12:00 - 13:00	57.8	72.7	56.2	dB(A)
13:00 - 14:00	58.4	71.1	56.8	dB(A)
14:00 - 15:00	59.4	76.8	57.6	dB(A)
15:00 - 16:00	58.6	70.3	56.9	dB(A)
16:00 - 17:00	59.1	74.2	57.3	dB(A)
17:00 - 18:00	60.1	79.8	57.9	dB(A)
18:00 - 19:00	60.1	74.1	58.4	dB(A)
19:00 - 20:00	60.4	76.1	58.3	dB(A)
20:00 - 21:00	58.9	74.7	57.4	dB(A)
21:00 - 22:00	57.8	68.7	56.8	dB(A)
22:00 - 23:00	58.2	71.5	57.0	dB(A)
23:00 - 00:00	58.5	80.4	56.8	dB(A)
00:00 - 01:00	57.0	66.4	56.4	dB(A)
01:00 - 02:00	56.8	69.5	56.2	dB(A)
02:00 - 03:00	57.8	69.6	56.9	dB(A)
03:00 - 04:00	57.6	70.9	56.5	dB(A)
04:00 - 05:00	56.7	75.5	56.1	dB(A)
05:00 - 06:00	57.3	69.4	56.6	dB(A)
06:00 - 07:00	60.2	77.4	58.3	dB(A)
07:00 - 08:00	61.0	75.7	59.1	dB(A)
08:00 - 09:00	60.0	84.6	57.8	dB(A)
09:00 - 10:00	58.6	70.4	57.3	dB(A)
L_{eq} 24 hr.	59.0	-	-	dB(A)
L_{dn}	64.6	-	-	dB(A)
Maximum	-	84.6	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
29/11/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R1176
Report No. R6609-01536

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GC17 Polystyrene Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}
SAMPLE NO. : 33833
DETERMINATION METHOD : ISO 1996-1:2016
MEASURING DATE : 18-19/11/2023
INSTRUMENT : Integrated Sound Level Meter S/N 01120953 : Class 1
RECEIVED DATE : 23/11/2023
REPORTED DATE : 29/11/2023

TIME \ DATE	18-19/11/2023 (L_{eq})	18-19/11/2023 (L_{max})	18-19/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	58.5	72.6	57.2	dB(A)
11:00 - 12:00	57.8	72.5	56.1	dB(A)
12:00 - 13:00	56.8	70.8	55.4	dB(A)
13:00 - 14:00	58.0	74.0	56.5	dB(A)
14:00 - 15:00	57.6	73.2	55.9	dB(A)
15:00 - 16:00	58.2	77.2	56.7	dB(A)
16:00 - 17:00	57.5	70.7	56.0	dB(A)
17:00 - 18:00	58.3	75.0	56.9	dB(A)
18:00 - 19:00	58.8	69.8	57.4	dB(A)
19:00 - 20:00	59.0	72.3	57.6	dB(A)
20:00 - 21:00	57.1	72.1	56.3	dB(A)
21:00 - 22:00	57.5	73.3	56.5	dB(A)
22:00 - 23:00	57.8	70.2	56.9	dB(A)
23:00 - 00:00	58.1	67.1	57.1	dB(A)
00:00 - 01:00	56.9	68.9	56.3	dB(A)
01:00 - 02:00	56.9	64.6	56.4	dB(A)
02:00 - 03:00	57.5	63.8	56.8	dB(A)
03:00 - 04:00	57.4	64.2	56.6	dB(A)
04:00 - 05:00	56.6	62.6	56.1	dB(A)
05:00 - 06:00	57.3	69.9	56.6	dB(A)
06:00 - 07:00	59.5	77.1	57.8	dB(A)
07:00 - 08:00	60.1	77.2	58.5	dB(A)
08:00 - 09:00	59.4	77.2	56.7	dB(A)
09:00 - 10:00	57.9	72.4	56.9	dB(A)
L_{eq} 24 hr.	58.0	-	-	dB(A)
L_{dn}	64.1	-	-	dB(A)
Maximum	-	77.2	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
29/11/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R1176
Report No. R6609-01537

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	33834
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	19-20/11/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	23/11/2023
	S/N 01120953 : Class 1	REPORTED DATE	:	29/11/2023

TIME \ DATE	19-20/11/2023 (L_{eq})	19-20/11/2023 (L_{max})	19-20/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	57.8	75.0	56.5	dB(A)
11:00 - 12:00	58.0	76.0	56.7	dB(A)
12:00 - 13:00	56.3	74.5	54.8	dB(A)
13:00 - 14:00	57.2	75.0	55.7	dB(A)
14:00 - 15:00	57.6	72.4	55.9	dB(A)
15:00 - 16:00	57.8	66.9	56.6	dB(A)
16:00 - 17:00	57.9	73.1	56.5	dB(A)
17:00 - 18:00	59.3	69.9	57.8	dB(A)
18:00 - 19:00	58.7	70.6	57.5	dB(A)
19:00 - 20:00	58.3	67.7	57.0	dB(A)
20:00 - 21:00	58.1	67.8	57.0	dB(A)
21:00 - 22:00	57.9	73.6	57.0	dB(A)
22:00 - 23:00	58.0	68.6	57.3	dB(A)
23:00 - 00:00	58.2	79.9	57.2	dB(A)
00:00 - 01:00	57.0	66.4	56.6	dB(A)
01:00 - 02:00	58.7	81.5	56.7	dB(A)
02:00 - 03:00	57.3	73.3	56.7	dB(A)
03:00 - 04:00	57.5	65.1	56.8	dB(A)
04:00 - 05:00	56.8	65.8	56.3	dB(A)
05:00 - 06:00	57.6	69.0	57.0	dB(A)
06:00 - 07:00	60.1	69.8	58.6	dB(A)
07:00 - 08:00	60.8	75.7	59.2	dB(A)
08:00 - 09:00	60.3	75.3	57.6	dB(A)
09:00 - 10:00	59.9	82.5	57.4	dB(A)
L_{eq} 24 hr.	58.4	-	-	dB(A)
L_{dn}	64.5	-	-	dB(A)
Maximum	-	82.5	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
29/11/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R1176
Report No. R6609-01538

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GC17 Polystyrene Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01120953 ; Class 1

SAMPLE NO. : 33835
MEASURING DATE : 20-21/11/2023
RECEIVED DATE : 23/11/2023
REPORTED DATE : 29/11/2023

TIME \ DATE	20-21/11/2023 (L_{eq})	20-21/11/2023 (L_{max})	20-21/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	58.9	71.9	57.0	dB(A)
11:00 - 12:00	58.5	70.1	56.8	dB(A)
12:00 - 13:00	56.7	67.3	55.0	dB(A)
13:00 - 14:00	57.9	70.1	56.2	dB(A)
14:00 - 15:00	59.3	67.9	57.9	dB(A)
15:00 - 16:00	59.6	73.4	58.0	dB(A)
16:00 - 17:00	58.5	68.6	57.3	dB(A)
17:00 - 18:00	58.9	69.0	57.6	dB(A)
18:00 - 19:00	59.3	68.5	57.9	dB(A)
19:00 - 20:00	60.1	74.7	58.5	dB(A)
20:00 - 21:00	58.5	70.6	57.3	dB(A)
21:00 - 22:00	59.0	87.5	57.2	dB(A)
22:00 - 23:00	58.4	74.2	57.5	dB(A)
23:00 - 00:00	58.3	72.1	57.4	dB(A)
00:00 - 01:00	57.4	66.5	56.9	dB(A)
01:00 - 02:00	58.0	66.2	57.4	dB(A)
02:00 - 03:00	60.4	66.4	59.5	dB(A)
03:00 - 04:00	60.1	66.4	59.2	dB(A)
04:00 - 05:00	59.8	64.9	58.9	dB(A)
05:00 - 06:00	58.8	70.5	57.8	dB(A)
06:00 - 07:00	60.4	69.0	58.9	dB(A)
07:00 - 08:00	60.7	73.5	59.0	dB(A)
08:00 - 09:00	59.0	72.7	57.1	dB(A)
09:00 - 10:00	58.3	72.0	56.8	dB(A)
L_{eq} 24 hr.	59.1	-	-	dB(A)
L_{dn}	65.6	-	-	dB(A)
Maximum	-	87.5	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photanikum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
29/11/2023

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Request No. LA66-R1176
Report No. R6609-01539

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีเอะซีทัล จำกัด (TPAC)			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	33836
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	21-22/11/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	23/11/2023
	S/N 01120953 : Class 1	REPORTED DATE	:	29/11/2023

TIME \ DATE	21-22/11/2023 (L_{eq})	21-22/11/2023 (L_{max})	21-22/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	59.3	72.0	57.4	dB(A)
11:00 - 12:00	58.9	72.3	57.2	dB(A)
12:00 - 13:00	57.3	71.8	55.1	dB(A)
13:00 - 14:00	57.7	71.4	56.1	dB(A)
14:00 - 15:00	59.2	68.7	57.7	dB(A)
15:00 - 16:00	59.3	68.5	57.6	dB(A)
16:00 - 17:00	58.6	70.3	57.6	dB(A)
17:00 - 18:00	58.6	69.9	57.0	dB(A)
18:00 - 19:00	59.5	70.4	58.2	dB(A)
19:00 - 20:00	59.0	72.2	57.6	dB(A)
20:00 - 21:00	57.9	71.6	56.9	dB(A)
21:00 - 22:00	58.4	67.6	57.7	dB(A)
22:00 - 23:00	58.6	69.9	57.8	dB(A)
23:00 - 00:00	58.0	64.3	57.4	dB(A)
00:00 - 01:00	57.7	70.0	57.0	dB(A)
01:00 - 02:00	58.0	67.7	57.6	dB(A)
02:00 - 03:00	58.3	63.1	57.6	dB(A)
03:00 - 04:00	57.8	66.8	57.1	dB(A)
04:00 - 05:00	57.3	67.8	56.7	dB(A)
05:00 - 06:00	57.9	69.8	57.2	dB(A)
06:00 - 07:00	60.2	71.3	58.8	dB(A)
07:00 - 08:00	60.5	75.1	58.8	dB(A)
08:00 - 09:00	59.2	73.4	57.1	dB(A)
09:00 - 10:00	66.5	83.8	65.0	dB(A)
L_{eq} 24 hr.	59.5	-	-	dB(A)
L_{dn}	65.0	-	-	dB(A)
Maximum	-	83.8	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
29/11/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R1176
Report No. R6609-01540

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	33837
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	22-23/11/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	23/11/2023
	S/N 01120953 : Class 1	REPORTED DATE	:	29/11/2023

TIME \ DATE	22-23/11/2023 (L_{eq})	22-23/11/2023 (L_{max})	22-23/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	67.6	77.3	64.9	dB(A)
11:00 - 12:00	59.3	77.9	57.2	dB(A)
12:00 - 13:00	57.4	74.7	56.0	dB(A)
13:00 - 14:00	57.9	76.2	56.7	dB(A)
14:00 - 15:00	59.1	70.8	57.6	dB(A)
15:00 - 16:00	59.7	77.8	57.9	dB(A)
16:00 - 17:00	57.8	73.3	56.7	dB(A)
17:00 - 18:00	58.0	74.0	56.6	dB(A)
18:00 - 19:00	59.3	69.2	58.1	dB(A)
19:00 - 20:00	59.5	78.8	58.1	dB(A)
20:00 - 21:00	59.1	79.3	57.3	dB(A)
21:00 - 22:00	58.7	82.8	56.0	dB(A)
22:00 - 23:00	58.4	64.1	57.6	dB(A)
23:00 - 00:00	57.9	67.1	57.0	dB(A)
00:00 - 01:00	57.0	67.8	56.4	dB(A)
01:00 - 02:00	57.0	69.0	56.6	dB(A)
02:00 - 03:00	57.7	62.2	56.9	dB(A)
03:00 - 04:00	58.1	64.5	57.4	dB(A)
04:00 - 05:00	57.6	63.1	57.1	dB(A)
05:00 - 06:00	57.4	70.3	56.8	dB(A)
06:00 - 07:00	60.1	72.3	58.7	dB(A)
07:00 - 08:00	60.4	75.5	58.7	dB(A)
08:00 - 09:00	58.9	76.6	57.1	dB(A)
09:00 - 10:00	60.5	86.1	57.9	dB(A)
L_{eq} 24 hr.	59.8	-	-	dB(A)
L_{dn}	64.9	-	-	dB(A)
Maximum	-	86.1	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
29/11/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R1176
Report No. R6611-1541

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	โรงเรียนบ้านหนองแฟบ			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	33838
DETERMINATION METHOD	:	ISO 1996-1:2016	MEASURING DATE	:	16-17/11/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	23/11/2023
		S/N 01120944 : Class 1	REPORTED DATE	:	29/11/2023

TIME \ DATE	16-17/11/2023 (L_{eq})	16-17/11/2023 (L_{max})	16-17/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	56.8	72.0	55.1	dB(A)
11:00 - 12:00	62.2	82.3	57.6	dB(A)
12:00 - 13:00	56.1	75.8	53.5	dB(A)
13:00 - 14:00	53.6	67.0	51.5	dB(A)
14:00 - 15:00	59.3	73.2	53.6	dB(A)
15:00 - 16:00	58.3	76.5	54.7	dB(A)
16:00 - 17:00	59.9	84.4	56.5	dB(A)
17:00 - 18:00	55.7	68.3	54.4	dB(A)
18:00 - 19:00	56.5	68.7	55.3	dB(A)
19:00 - 20:00	56.1	69.7	54.8	dB(A)
20:00 - 21:00	55.9	69.3	54.7	dB(A)
21:00 - 22:00	55.1	66.3	54.2	dB(A)
22:00 - 23:00	55.4	71.3	54.2	dB(A)
23:00 - 00:00	55.6	68.0	54.6	dB(A)
00:00 - 01:00	55.3	69.7	54.3	dB(A)
01:00 - 02:00	55.1	69.1	54.2	dB(A)
02:00 - 03:00	55.3	69.9	54.4	dB(A)
03:00 - 04:00	55.3	67.7	54.3	dB(A)
04:00 - 05:00	55.2	67.0	54.3	dB(A)
05:00 - 06:00	56.6	70.6	55.3	dB(A)
06:00 - 07:00	59.6	76.6	57.3	dB(A)
07:00 - 08:00	62.4	99.2	58.5	dB(A)
08:00 - 09:00	61.0	79.2	59.1	dB(A)
09:00 - 10:00	59.1	72.9	57.5	dB(A)
L_{eq} 24 hr.	57.9	-	-	dB(A)
L_{dn}	63.1	-	-	dB(A)
Maximum	-	99.2	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
29/11/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R1176
Report No. R6609-01542

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: โรงเรียนบ้านหนองแฟบ			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 33839	
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	: 17-18/11/2023	
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	: 23/11/2023	
	S/N 01120944 : Class 1	REPORTED DATE	: 29/11/2023	

TIME \ DATE	17-18/11/2023 (L_{eq})	17-18/11/2023 (L_{max})	17-18/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	60.6	77.9	57.8	dB(A)
11:00 - 12:00	62.2	80.1	59.0	dB(A)
12:00 - 13:00	59.7	79.4	57.7	dB(A)
13:00 - 14:00	58.8	76.1	57.2	dB(A)
14:00 - 15:00	58.1	73.2	56.3	dB(A)
15:00 - 16:00	60.6	79.0	57.3	dB(A)
16:00 - 17:00	60.2	77.3	58.2	dB(A)
17:00 - 18:00	58.9	71.6	57.4	dB(A)
18:00 - 19:00	58.6	69.0	57.3	dB(A)
19:00 - 20:00	58.3	69.5	57.1	dB(A)
20:00 - 21:00	58.4	77.4	56.9	dB(A)
21:00 - 22:00	58.4	68.4	57.3	dB(A)
22:00 - 23:00	57.9	66.5	56.8	dB(A)
23:00 - 00:00	57.9	69.3	57.0	dB(A)
00:00 - 01:00	58.0	66.4	57.1	dB(A)
01:00 - 02:00	58.0	69.1	57.2	dB(A)
02:00 - 03:00	58.0	65.3	57.2	dB(A)
03:00 - 04:00	58.0	62.9	57.1	dB(A)
04:00 - 05:00	58.0	62.3	57.3	dB(A)
05:00 - 06:00	58.7	69.8	57.7	dB(A)
06:00 - 07:00	59.9	71.6	58.5	dB(A)
07:00 - 08:00	60.2	76.5	58.4	dB(A)
08:00 - 09:00	58.5	70.4	57.3	dB(A)
09:00 - 10:00	56.4	84.6	54.8	dB(A)
L_{eq} 24 hr.	59.0	-	-	dB(A)
L_{dn}	64.9	-	-	dB(A)
Maximum	-	84.6	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R1176

Report No. R6609-01543

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: โรงเรียนบ้านหนองแฟบ			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 33840	
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	: 18-19/11/2023	
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	: 23/11/2023	
	S/N 01120944 : Class 1	REPORTED DATE	: 29/11/2023	

TIME \ DATE	18-19/11/2023 (L_{eq})	18-19/11/2023 (L_{max})	18-19/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	55.8	71.0	54.1	dB(A)
11:00 - 12:00	55.1	66.5	53.2	dB(A)
12:00 - 13:00	54.8	66.5	52.5	dB(A)
13:00 - 14:00	54.9	77.3	52.3	dB(A)
14:00 - 15:00	56.4	81.6	53.3	dB(A)
15:00 - 16:00	55.0	73.1	52.8	dB(A)
16:00 - 17:00	55.0	67.5	53.7	dB(A)
17:00 - 18:00	56.3	81.5	54.5	dB(A)
18:00 - 19:00	56.3	70.5	54.6	dB(A)
19:00 - 20:00	55.1	70.8	54.0	dB(A)
20:00 - 21:00	54.5	66.2	53.4	dB(A)
21:00 - 22:00	54.9	72.2	53.8	dB(A)
22:00 - 23:00	54.9	70.2	54.0	dB(A)
23:00 - 00:00	55.2	66.0	54.4	dB(A)
00:00 - 01:00	55.0	63.7	54.2	dB(A)
01:00 - 02:00	54.9	58.8	54.2	dB(A)
02:00 - 03:00	55.2	67.2	54.4	dB(A)
03:00 - 04:00	55.1	60.1	54.4	dB(A)
04:00 - 05:00	55.5	68.2	54.7	dB(A)
05:00 - 06:00	55.8	62.9	55.1	dB(A)
06:00 - 07:00	57.1	72.4	55.9	dB(A)
07:00 - 08:00	56.9	72.4	55.5	dB(A)
08:00 - 09:00	56.6	73.4	55.2	dB(A)
09:00 - 10:00	55.1	69.7	53.9	dB(A)
L_{eq} 24 hr.	55.5	-	-	dB(A)
L_{dn}	61.9	-	-	dB(A)
Maximum	-	81.6	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

/2 Notification of Ministry of the Industry B.E. 2548 (2005)

/3 Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

29/11/2023

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Request No. LA66-R1176
Report No. R6609-01544

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: โรงเรียนบ้านหนองแฟบ			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 33841	
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	: 19-20/11/2023	
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	: 23/11/2023	
	S/N 01120944 : Class 1	REPORTED DATE	: 29/11/2023	

TIME \ DATE	19-20/11/2023 (L_{eq})	19-20/11/2023 (L_{max})	19-20/11/2023 (L_{90})	UNIT
10:00 - 11:00 [3]	57.1	76.0	54.2	dB(A)
11:00 - 12:00	56.3	75.4	53.8	dB(A)
12:00 - 13:00	58.4	77.8	54.5	dB(A)
13:00 - 14:00	59.9	81.5	55.2	dB(A)
14:00 - 15:00	54.0	67.0	52.1	dB(A)
15:00 - 16:00	55.4	66.8	53.0	dB(A)
16:00 - 17:00	58.6	71.6	54.9	dB(A)
17:00 - 18:00	63.7	77.8	57.8	dB(A)
18:00 - 19:00	55.2	70.4	53.8	dB(A)
19:00 - 20:00	54.5	62.9	53.6	dB(A)
20:00 - 21:00	54.4	64.0	53.4	dB(A)
21:00 - 22:00	54.7	69.8	53.4	dB(A)
22:00 - 23:00	55.3	74.7	54.1	dB(A)
23:00 - 00:00	54.9	60.5	54.1	dB(A)
00:00 - 01:00	56.7	82.1	54.4	dB(A)
01:00 - 02:00	55.5	69.0	54.6	dB(A)
02:00 - 03:00	55.5	62.0	54.8	dB(A)
03:00 - 04:00	55.5	64.0	54.7	dB(A)
04:00 - 05:00	55.6	61.9	54.8	dB(A)
05:00 - 06:00	64.7	78.6	59.4	dB(A)
06:00 - 07:00	68.7	84.6	62.4	dB(A)
07:00 - 08:00	64.6	79.9	60.1	dB(A)
08:00 - 09:00	56.9	73.6	55.3	dB(A)
09:00 - 10:00	56.0	69.6	54.2	dB(A)
L_{eq} 24 hr.	60.0	-	-	dB(A)
L_{dn}	67.7	-	-	dB(A)
Maximum	-	84.6	-	dB(A)
Standard	70 [1], 70 [2]	115 [1], 115 [2]	-	dB(A)

REMARK : [1] Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
[2] Notification of Ministry of the Industry B.E. 2548 (2005)
[3] Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
29/11/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R1176
Report No. R6609-01545

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GC17 Polystyrene Plant
SAMPLE POINT : โรงเรือนบ้านหนองแฟบ
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 01120944 : Class 1

SAMPLE NO. : 33842
MEASURING DATE : 20-21/11/2023
RECEIVED DATE : 23/11/2023
REPORTED DATE : 29/11/2023

TIME \ DATE	20-21/11/2023 (L_{eq})	20-21/11/2023 (L_{max})	20-21/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	56.0	77.3	54.3	dB(A)
11:00 - 12:00	60.5	77.8	57.1	dB(A)
12:00 - 13:00	56.0	80.8	52.4	dB(A)
13:00 - 14:00	53.0	75.5	50.4	dB(A)
14:00 - 15:00	53.8	72.2	51.0	dB(A)
15:00 - 16:00	59.9	99.6	52.0	dB(A)
16:00 - 17:00	56.9	77.4	53.8	dB(A)
17:00 - 18:00	53.3	67.7	51.5	dB(A)
18:00 - 19:00	53.5	61.6	52.4	dB(A)
19:00 - 20:00	54.9	68.4	53.9	dB(A)
20:00 - 21:00	54.7	69.4	53.8	dB(A)
21:00 - 22:00	54.7	65.0	53.8	dB(A)
22:00 - 23:00	54.4	61.8	53.6	dB(A)
23:00 - 00:00	54.6	65.5	53.7	dB(A)
00:00 - 01:00	54.8	59.4	54.1	dB(A)
01:00 - 02:00	55.1	69.4	54.3	dB(A)
02:00 - 03:00	55.3	58.9	54.6	dB(A)
03:00 - 04:00	55.3	59.9	54.7	dB(A)
04:00 - 05:00	55.6	61.7	54.8	dB(A)
05:00 - 06:00	56.1	67.8	55.1	dB(A)
06:00 - 07:00	59.7	82.0	56.8	dB(A)
07:00 - 08:00	60.2	80.8	57.1	dB(A)
08:00 - 09:00	57.5	76.0	55.3	dB(A)
09:00 - 10:00	56.0	72.0	53.8	dB(A)
L_{eq} 24 hr.	56.5	-	-	dB(A)
L_{dn}	62.5	-	-	dB(A)
Maximum	-	99.6	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
29/11/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R1176
Report No. R6609-01546

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: โรงเรียนบ้านหนองแฟบ			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	33843
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	21-22/11/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	23/11/2023
	S/N 01120944 : Class 1	REPORTED DATE	:	29/11/2023

TIME \ DATE	21-22/11/2023 (L_{eq})	21-22/11/2023 (L_{max})	21-22/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	54.6	69.5	52.7	dB(A)
11:00 - 12:00	58.2	76.7	54.6	dB(A)
12:00 - 13:00	55.3	77.4	52.3	dB(A)
13:00 - 14:00	54.1	69.3	51.9	dB(A)
14:00 - 15:00	54.8	78.3	51.2	dB(A)
15:00 - 16:00	53.9	75.6	50.8	dB(A)
16:00 - 17:00	56.2	90.5	51.8	dB(A)
17:00 - 18:00	54.5	75.4	50.5	dB(A)
18:00 - 19:00	53.1	64.9	51.5	dB(A)
19:00 - 20:00	54.2	67.6	52.9	dB(A)
20:00 - 21:00	54.4	65.7	53.4	dB(A)
21:00 - 22:00	54.2	64.1	53.3	dB(A)
22:00 - 23:00	53.8	69.1	52.9	dB(A)
23:00 - 00:00	53.6	62.5	52.9	dB(A)
00:00 - 01:00	54.4	57.4	53.7	dB(A)
01:00 - 02:00	54.7	59.4	54.1	dB(A)
02:00 - 03:00	54.8	61.1	54.3	dB(A)
03:00 - 04:00	54.6	59.9	54.0	dB(A)
04:00 - 05:00	54.8	59.5	54.2	dB(A)
05:00 - 06:00	55.7	65.2	54.9	dB(A)
06:00 - 07:00	57.9	73.2	56.1	dB(A)
07:00 - 08:00	60.0	79.1	57.0	dB(A)
08:00 - 09:00	57.3	74.2	55.2	dB(A)
09:00 - 10:00	58.3	78.7	53.9	dB(A)
L_{eq} 24 hr.	55.7	-	-	dB(A)
L_{dn}	61.7	-	-	dB(A)
Maximum	-	90.5	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankham)

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
29/11/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R1176
Report No. R6609-01547

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: โรงเรียนบ้านหนองแฟบ			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	33844
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	22-23/11/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	23/11/2023
	S/N 01120944 : Class 1	REPORTED DATE	:	29/11/2023

TIME \ DATE	22-23/11/2023 (L_{eq})	22-23/11/2023 (L_{max})	22-23/11/2023 (L_{90})	UNIT
10:00 - 11:00 /3	61.2	80.2	54.9	dB(A)
11:00 - 12:00	61.9	79.8	58.2	dB(A)
12:00 - 13:00	60.5	77.6	56.9	dB(A)
13:00 - 14:00	60.7	78.4	56.1	dB(A)
14:00 - 15:00	59.9	87.8	56.9	dB(A)
15:00 - 16:00	61.4	80.2	58.3	dB(A)
16:00 - 17:00	67.9	80.1	61.7	dB(A)
17:00 - 18:00	70.5	84.1	57.4	dB(A)
18:00 - 19:00	56.7	74.5	52.9	dB(A)
19:00 - 20:00	76.2	85.8	73.3	dB(A)
20:00 - 21:00	77.8	90.4	74.8	dB(A)
21:00 - 22:00	78.5	87.2	75.9	dB(A)
22:00 - 23:00	78.4	88.3	75.5	dB(A)
23:00 - 00:00	58.6	73.3	55.5	dB(A)
00:00 - 01:00	56.9	75.7	53.9	dB(A)
01:00 - 02:00	53.9	67.1	53.2	dB(A)
02:00 - 03:00	54.4	57.4	53.9	dB(A)
03:00 - 04:00	54.6	69.3	54.0	dB(A)
04:00 - 05:00	54.5	61.6	53.9	dB(A)
05:00 - 06:00	58.5	68.2	56.4	dB(A)
06:00 - 07:00	64.8	94.5	57.9	dB(A)
07:00 - 08:00	62.8	81.5	59.7	dB(A)
08:00 - 09:00	65.7	80.4	61.4	dB(A)
09:00 - 10:00	64.8	90.9	59.8	dB(A)
L_{eq} 24 hr.	70.7	-	-	dB(A)
L_{dn}	76.0	-	-	dB(A)
Maximum	-	94.5	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
29/11/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-0902

Report No. 6609-0050

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Hot Oil Heater Stack 1 (S-140A)	SAMPLE NO.	:	04421
SAMPLING DATE	:	30/08/2023	SAMPLING TIME	:	10:50-11:35
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION[@]

Height	:	20.00	m	Type of Process	:	Combustion	
Diameter	:	0.45	m	Type of Fuel	:	Recovered Volatile	
Temperature	:	277.90	°C	Oxygen Content	:	6.46	%
Air Velocity	:	3.28	m/s	Barometric Pressure	:	754.75	mmHg
Flow rate[/2]	:	0.26	m^3/s	Atmospheric Temperature	:	34.30	°C
Moisture Content	:	5.55	%				

PARAMETER	TEST METHOD	TIME	RESULT[/2]		STD[/1]	UNIT
			6.46 % O_2	7 % O_2		
Total Suspended Particulate	Isokinetic, Gravimetric	10:50-11:35	1.5	1.4	320, 216.0[/3]	mg/m^3
(TSP)	(U.S. EPA Method 5)		0.0004[@]	-	0.065[/3]	g/s

REMARK:

1. [/1] Notification of The Ministry of Industry B.E. 2549 (2006)
2. [/2] Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
3. [/3] ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
4. [@] These Data Outside The Scope of The Registration of The Department of Industrial Works.
5. Sampling By Mr. Audomsub Jenjobjing (ว-003-จ-0009)

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

06/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Mr. Thongchai Boonsak)

(ว-003-ค-0012)

06/09/2023

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Request No. LA66-0902

Report No. 6609-0051

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Hot Oil Heater Stack 1 (S-140A)	SAMPLE NO.	:	04422
SAMPLING DATE	:	30/08/2023	SAMPLING TIME	:	10:50-11:20
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION[@]

Height	:	20.00	m	Type of Process	:	Combustion	
Diameter	:	0.45	m	Type of Fuel	:	Recovered Volatile	
Temperature	:	277.90	°C	Oxygen Content	:	6.46	%
Air Velocity	:	3.28	m/s	Barometric Pressure	:	754.75	mmHg
Flow rate[/2]	:	0.26	m^3/s	Atmospheric Temperature	:	34.30	°C
Moisture Content	:	5.55	%				

PARAMETER	TEST METHOD	TIME	RESULT[/2]		STD[/1]	UNIT
			6.46 % O_2	7 % O_2		
Sulfur Dioxide	Absorption, Barium-Thorin	10:50-11:20	<3.4	<3.3	157, 23.1[/3]	mg/m^3
(SO_2)	Titrimetric (U.S. EPA Method 6)		<1.3	<1.3	60, 8.8[/3]	ppm
			< 0.0009[@]	-	0.007[/3]	g/s

REMARK:

1. [/1] Notification of The Ministry of Industry B.E. 2549 (2006)
2. [/2] Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
3. [/3] ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
4. [@] These Data Outside The Scope of The Registration of The Department of Industrial Works.
5. Sampling By Mr. Audomsub Jenjobjing (ว-003-จ-0009)

Examined By.....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
06/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(Mr. Thongchai Boonsak)
(ว-003-ค-0012)
06/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-0902

Report No. 6609-0052

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Hot Oil Heater Stack 1 (S-140A)	SAMPLE NO.	:	04423
SAMPLING DATE	:	30/08/2023	SAMPLING TIME	:	11:30-11:35
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION[@]

Height	:	20.00	m	Type of Process	:	Combustion	
Diameter	:	0.45	m	Type of Fuel	:	Recovered Volatile	
Temperature	:	277.90	°C	Oxygen Content	:	6.46	%
Air Velocity	:	3.28	m/s	Barometric Pressure	:	754.75	mmHg
Flow rate[/2]	:	0.26	m^3/s	Atmospheric Temperature	:	34.30	°C
Moisture Content	:	5.55	%				

PARAMETER	TEST METHOD	TIME	RESULT[/2]		STD[/1]	UNIT
			6.46 % O_2	7 % O_2		
Oxides of Nitrogen	Absorption, Phenoldisulfonic	11:30-11:35	38.4	37.0	376, 74.5[/3]	mg/m^3
(NO_x as NO_2)	Acid (U.S. EPA Method 7)		20.4	19.6	200, 39.6[/3]	ppm
			0.0100[@]	-	0.022[/3]	g/s

REMARK:

1. [/1] Notification of The Ministry of Industry B.E. 2549 (2006)
2. [/2] Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
3. [/3] ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
4. [@] These Data Outside The Scope of The Registration of The Department of Industrial Works.
5. Sampling By Mr. Audomsub Jenjobjing (ว-003-จ-0009)

Examined By.....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
06/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(Mr. Thongchai Boonsak)
(ว-003-ค-0012)
06/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-0902

Report No. 6609-0053

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Hot Oil Heater Stack 2 (S-140B)	SAMPLE NO.	:	04424
SAMPLING DATE	:	30/08/2023	SAMPLING TIME	:	09:35-10:20
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION[@]

Height	:	22.00	m	Type of Process :	Combustion	
Diameter	:	0.60	m	Type of Fuel :	Recovered Volatile	
Temperature	:	275.00	°C	Oxygen Content :	6.67	%
Air Velocity	:	3.28	m/s	Barometric Pressure :	754.75	mmHg
Flow rate[/2]	:	0.47	m^3/s	Atmospheric Temperature :	31.00	°C
Moisture Content	:	6.44	%			

PARAMETER	TEST METHOD	TIME	RESULT[/2]		STD[/1]	UNIT
			6.67 % O_2	7 % O_2		
Total Suspended Particulate	Isokinetic, Gravimetric	09:35-10:20	0.7	0.7	320, 216.0[/3]	mg/m^3
(TSP)	(U.S. EPA Method 5)		0.0003[@]	-	0.103[/3]	g/s

REMARK:

1. [/1] Notification of The Ministry of Industry B.E. 2549 (2006)
2. [/2] Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
3. [/3] ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
4. [@] These Data Outside The Scope of The Registration of The Department of Industrial Works.
5. Sampling By Mr. Audomsub Jenjobjing (ว-003-จ-0009)

Examined By.....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
06/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....Thongchai Boonsak
(Mr. Thongchai Boonsak)
(ว-003-ค-0012)
06/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-0902

Report No. 6609-0054

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Hot Oil Heater Stack 2 (S-140B)	SAMPLE NO.	:	04425
SAMPLING DATE	:	30/08/2023	SAMPLING TIME	:	09:35-10:05
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION[@]

Height	:	22.00	m	Type of Process	:	Combustion	
Diameter	:	0.60	m	Type of Fuel	:	Recovered Volatile	
Temperature	:	275.00	°C	Oxygen Content	:	6.67	%
Air Velocity	:	3.28	m/s	Barometric Pressure	:	754.75	mmHg
Flow rate[/2]	:	0.47	m^3/s	Atmospheric Temperature	:	31.00	°C
Moisture Content	:	6.44	%				

PARAMETER	TEST METHOD	TIME	RESULT[/2]		STD[/1]	UNIT
			6.67 % O_2	7 % O_2		
Sulfur Dioxide	Absorption, Barium-Thorin	09:35-10:05	<3.4	<3.3	157, 23.1[/3]	mg/m^3
(SO_2)	Titrimetric (U.S. EPA Method 6)		<1.3	<1.3	60, 8.8[/3]	ppm
			<0.0016[@]	-	0.011[/3]	g/s

REMARK:

1. [/1] Notification of The Ministry of Industry B.E. 2549 (2006)
2. [/2] Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
3. [/3] ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
4. [@] These Data Outside The Scope of The Registration of The Department of Industrial Works.
5. Sampling By Mr. Audomsub Jenjobjing (ว-003-จ-0009)

Examined By.....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
06/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(Mr. Thongchai Boonsak)
(ว-003-ค-0012)
06/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-0902

Report No. 6609-0055

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Hot Oil Heater Stack 2 (S-140B)	SAMPLE NO.	:	04426
SAMPLING DATE	:	30/08/2023	SAMPLING TIME	:	09:50-09:55
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION[@]

Height	:	22.00	m	Type of Process	:	Combustion	
Diameter	:	0.60	m	Type of Fuel	:	Recovered Volatile	
Temperature	:	275.00	°C	Oxygen Content	:	6.67	%
Air Velocity	:	3.28	m/s	Barometric Pressure	:	754.75	mmHg
Flow rate[/2]	:	0.47	m^3/s	Atmospheric Temperature	:	31.00	°C
Moisture Content	:	6.44	%				

PARAMETER	TEST METHOD	TIME	RESULT[/2]		STD[/1]	UNIT
			6.67 % O_2	7 % O_2		
Oxides of Nitrogen	Absorption, Phenoldisulfonic	09:50-09:55	33.9	33.1	376, 74.5[/3]	mg/m^3
(NO_x as NO_2)	Acid (U.S. EPA Method 7)		18.0	17.6	200, 39.6[/3]	ppm
			0.0159[@]	-	0.035[/3]	g/s

REMARK:

1. [/1] Notification of The Ministry of Industry B.E. 2549 (2006)
2. [/2] Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
3. [/3] ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
4. [@] These Data Outside The Scope of The Registration of The Department of Industrial Works.
5. Sampling By Mr. Audomsub Jenjobjing (ว-003-จ-0009)

Examined By.....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
06/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....Thongchai Boonsak
(Mr. Thongchai Boonsak)
(ว-003-ค-0012)
06/09/2023

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Request No. LA66-0902

Report No. 6609-0056

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Die-Fume Scrubber Stack of HIPS	SAMPLE NO.	:	04427
SAMPLING DATE	:	30/08/2023	SAMPLING TIME	:	10:00-10:15
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION

Height	:	13.00	m	Type of Process :	Exhaust	
Diameter	:	0.35	m	Type of Fuel :	-	
Temperature	:	41.10	°C	Oxygen Content :	20.90	%
Air Velocity	:	3.38	m/s	Barometric Pressure :	754.75	mmHg
Flow rate[/2]	:	0.33	m^3/s	Atmospheric Temperature :	36.00	°C
Moisture Content :		-	%			

PARAMETER	TEST METHOD	TIME	RESULT[/2]	STD[/1]	UNIT
Styrene monomer	Adsorption, Gas Chromatographic	10:00-10:15	5.75	44.0	mg/m^3
	(U.S. EPA Method 18)		1.35	-	ppm
			0.0019	0.0604	g/s

REMARK:

1. [/1] ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
2. [/2] Wet Basis (Actual Condition)
3. Parameter Outside The Scope of The Registration of The Department of Industrial Works.
4. Sampling By Mr. Audomsub Jenjobjing

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By Thongchai Boonsak

(Mr. Thongchai Boonsak)

06/09/2023

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Request No. LA66-0902

Report No. 6609-0057

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Die-Fume Scrubber Stack of HIPS	SAMPLE NO.	:	04428
SAMPLING DATE	:	30/08/2023	SAMPLING TIME	:	10:00-10:15
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION

Height	:	13.00	m	Type of Process :	Exhaust	
Diameter	:	0.35	m	Type of Fuel :	-	
Temperature	:	41.10	°C	Oxygen Content :	20.90	%
Air Velocity	:	3.38	m/s	Barometric Pressure :	754.75	mmHg
Flow rate[/2]	:	0.33	m^3/s	Atmospheric Temperature :	36.00	°C
Moisture Content :		-	%			

PARAMETER	TEST METHOD	TIME	RESULT[/2]	STD[/1]	UNIT
Ethylbenzene	Adsorption, Gas Chromatographic	10:00-10:15	2.38	60.0	mg/m^3
	(U.S. EPA Method 18)		0.55	-	ppm
			0.0008	0.0824	g/s

REMARK:

1. [/1] ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
2. [/2] Wet Basis (Actual Condition)
3. Parameter Outside The Scope of The Registration of The Department of Industrial Works.
4. Sampling By Mr. Audomsub Jenjobjing

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(Mr. Thongchai Boonsak)
06/09/2023

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Request No. LA66-0902

Report No. 6609-0058

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Pellet Dryer of HIPS	SAMPLE NO.	:	04429
SAMPLING DATE	:	30/08/2023	SAMPLING TIME	:	10:20-10:35
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION

Height	:	11.00	m	Type of Process :	Exhaust	
Diameter	:	0.33	m	Type of Fuel :	-	
Temperature	:	51.60	°C	Oxygen Content :	20.90	%
Air Velocity	:	3.31	m/s	Barometric Pressure :	754.75	mmHg
Flow rate/2	:	0.28	m^3/s	Atmospheric Temperature :	33.00	°C
Moisture Content	:	-	%			

PARAMETER	TEST METHOD	TIME	RESULT/2	STD/1	UNIT
Styrene monomer	Adsorption, Gas Chromatographic	10:20-10:35	<0.45	1.5	mg/m^3
	(U.S. EPA Method 18)		<0.11	-	ppm
			<0.00013	0.00104	g/s

REMARK:

1. /1 ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
2. /2 Wet Basis (Actual Condition)
3. Parameter Outside The Scope of The Registration of The Department of Industrial Works.
4. Sampling By Mr. Audomsub Jenjobjing

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Approved By.....Thongchai Boonsak.....
(Mr. Thongchai Boonsak)
06/09/2023

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Request No. LA66-0902

Report No. 6609-0059

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Pellet Dryer of HIPS	SAMPLE NO.	:	04430
SAMPLING DATE	:	30/08/2023	SAMPLING TIME	:	10:20-10:35
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION

Height	:	11.00	m	Type of Process :	Exhaust		
Diameter	:	0.33	m	Type of Fuel :	-		
Temperature	:	51.60	°C	Oxygen Content :	20.90	%	
Air Velocity	:	3.31	m/s	Barometric Pressure :	754.75	mmHg	
Flow rate/2	:	0.28	m^3/s	Atmospheric Temperature :	33.00	°C	
Moisture Content	:	-	%				

PARAMETER	TEST METHOD	TIME	RESULT/2	STD/1	UNIT
Ethylbenzene	Adsorption, Gas Chromatographic	10:20-10:35	<2.07	16.0	mg/m^3
	(U.S. EPA Method 18)		<0.48	-	ppm
			<0.00058	0.01111	g/s

REMARK:

1. /1 ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
2. /2 Wet Basis (Actual Condition)
3. Parameter Outside The Scope of The Registration of The Department of Industrial Works.
4. Sampling By Mr. Audomsub Jenjobjing

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Approved By Thongchai Boonsak

(Mr. Thongchai Boonsak)

06/09/2023

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Request No. LA66-0902

Report No. 6609-0047

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Vacuum Pump 2 (จาก Devolatilizer, Recycle Receiver)	SAMPLE NO.	:	04418
SAMPLING DATE	:	29/08/2023	SAMPLING TIME	:	09:38-09:53
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION

Height	:	15.30	m	Type of Process :	Exhaust		
Diameter	:	0.08	m	Type of Fuel :	-		
Temperature	:	37.80	°C	Oxygen Content :	20.90	%	
Air Velocity	:	1.78	m/s	Barometric Pressure :	754.00	mmHg	
Flow rate[/2]	:	0.009	m^3/s	Atmospheric Temperature :	31.50	°C	
Moisture Content	:	-	%				

PARAMETER	TEST METHOD	TIME	RESULT[/2]	STD[/1]	UNIT
Styrene monomer	Adsorption, Gas Chromatographic	09:38-09:53	<0.45	262.0	mg/m^3
	(U.S. EPA Method 18)		<0.11	-	ppm
			<0.000004	0.00064	g/s

REMARK:

1. [/1] ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
2. [/2] Wet Basis (Actual Condition)
3. Parameter Outside The Scope of The Registration of The Department of Industrial Works.
4. Sampling By Mr. Audomsub Jenjobjing

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....Thongchai Boonsak.....
(Mr. Thongchai Boonsak)
06/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-0902

Report No. 6609-0046

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Vacuum Pump 1 (จาก Reflux Receiver)	SAMPLE NO.	:	04417
SAMPLING DATE	:	29/08/2023	SAMPLING TIME	:	09:37-09:52
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION

Height	:	15.00	m	Type of Process :		Exhaust	
Diameter	:	0.04	m	Type of Fuel :		-	
Temperature	:	37.00	°C	Oxygen Content :		20.90	%
Air Velocity	:	1.88	m/s	Barometric Pressure :		754.00	mmHg
Flow rate[/2]	:	0.002	m^3/s	Atmospheric Temperature :		31.20	°C
Moisture Content	:	-	%				

PARAMETER	TEST METHOD	TIME	RESULT[/2]	STD[/1]	UNIT
Styrene monomer	Adsorption, Gas Chromatographic	09:37-09:52	<0.45	262.0	mg/m^3
	(U.S. EPA Method 18)		<0.11	-	ppm
			<0.000001	0.00048	g/s

REMARK:

1. [/1] ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
2. [/2] Wet Basis (Actual Condition)
3. Parameter Outside The Scope of The Registration of The Department of Industrial Works.
4. Sampling By Mr. Audomsub Jenjobjing

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By..... Thongchai Boonsak

(Mr. Thongchai Boonsak)

06/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-0902

Report No. 6609-0049

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Die-Fume Scrubber Stack of GPPS	SAMPLE NO.	:	04420
SAMPLING DATE	:	29/08/2023	SAMPLING TIME	:	10:01-10:16
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION

Height	:	15.30	m	Type of Process :	Exhaust		
Diameter	:	0.30	m	Type of Fuel :	-		
Temperature	:	41.20	°C	Oxygen Content :	20.90	%	
Air Velocity	:	1.89	m/s	Barometric Pressure :	754.00	mmHg	
Flow rate[/2]	:	0.13	m^3/s	Atmospheric Temperature :	36.20	°C	
Moisture Content	:	-	%				

PARAMETER	TEST METHOD	TIME	RESULT[/2]	STD[/1]	UNIT
Styrene monomer	Adsorption, Gas Chromatographic	10:01-10:16	<0.45	2.7	mg/m^3
	(U.S. EPA Method 18)		<0.11	-	ppm
			<0.00006	0.0020	g/s

REMARK:

1. [/1] ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
2. [/2] Wet Basis (Actual Condition)
3. Parameter Outside The Scope of The Registration of The Department of Industrial Works.
4. Sampling By Mr. Audomsub Jenjobjing

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By Thongchai Boonsak
(Mr. Thongchai Boonsak)
06/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-0902

Report No. 6609-0048

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd. Map Ta Phut Inudustrial Estate Map Ta Phut Rayong 21150			
SAMPLE SOURCE	:	GC 17 Polystyrene Plant			
SAMPLE POINT	:	Pellet Dryer of GPPS	SAMPLE NO.	:	04419
SAMPLING DATE	:	29/08/2023	SAMPLING TIME	:	10:08-10:23
RECEIVED DATE	:	04/09/2023	REPORTED DATE	:	06/09/2023
TESTED DATE	:	04-05/09/2023			

STACK DESCRIPTION

Height	:	6.00	m	Type of Process :	Exhaust		
Diameter	:	0.58	m	Type of Fuel :	-		
Temperature	:	51.80	°C	Oxygen Content :	20.90	%	
Air Velocity	:	2.26	m/s	Barometric Pressure :	754.00	mmHg	
Flow rate/2	:	0.60	m^3/s	Atmospheric Temperature :	35.50	°C	
Moisture Content	:	-	%				

PARAMETER	TEST METHOD	TIME	RESULT/2	STD/1	UNIT
Styrene monomer	Adsorption, Gas Chromatographic	10:08-10:23	<0.45	5.0	mg/m^3
	(U.S. EPA Method 18)		<0.11	-	ppm
			<0.0003	0.0057	g/s

REMARK:

1. /1 ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
2. /2 Wet Basis (Actual Condition)
3. Parameter Outside The Scope of The Registration of The Department of Industrial Works.
4. Sampling By Mr. Audomsub Jenjobjing

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By..... Thongchai Boonsak
(Mr. Thongchai Boonsak)
06/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6609024

Report No. 6609-0379 - 6609-0385

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: ริมรั้วด้านทิศเหนือของบริษัทไทยโพลีอะซีทัล จำกัด (TPAC)		
RECEIVED DATE	: 11/09/2023	SAMPLE NO.	: A66090379 - A66090385
TESTED DATE	: 11/09/2023-13/09/2023	REPORTED DATE	: 13/09/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD[/1]	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	28-29/08/2023	0.035	0.33	mg/m^3
		29-30/08/2023	0.019	0.33	mg/m^3
		30-31/08/2023	0.027	0.33	mg/m^3
		31/08/2023-01/09/2023	0.036	0.33	mg/m^3
		01-02/09/2023	0.032	0.33	mg/m^3
		02-03/09/2023	0.037	0.33	mg/m^3
		03-04/09/2023	0.020	0.33	mg/m^3

REMARK: [/1] Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Miss Thanatporn Klinsopon)

13/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6609024

Report No. 6609-0393 - 6609-0399

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: ริมรั้วด้านทิศเหนือของบริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)		
RECEIVED DATE	: 11/09/2023	SAMPLE NO.	: A66090393 - A66090399
TESTED DATE	: 11/09/2023-13/09/2023	REPORTED DATE	: 13/09/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Styrene	Sorbent Adsorption, Gas Chromatography Method	28-29/08/2023	< 0.16	mg/m^3
			< 0.04	ppm
		29-30/08/2023	< 0.16	mg/m^3
			< 0.04	ppm
		30-31/08/2023	< 0.16	mg/m^3
			< 0.04	ppm
		31/08/2023-01/09/2023	< 0.16	mg/m^3
			< 0.04	ppm
		01-02/09/2023	< 0.16	mg/m^3
			< 0.04	ppm
		02-03/09/2023	< 0.16	mg/m^3
			< 0.04	ppm
		03-04/09/2023	< 0.16	mg/m^3
			< 0.04	ppm

REMARK: * Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Miss Thanatporn Klinsopon)

13/09/2023

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Request No. ATR6609024

Report No. 6609-0386 - 6609-0392

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: ริมรั้วด้านทิศเหนือของบริษัทไทยโพลีอะซีทัล จำกัด (TPAC)		
RECEIVED DATE	: 11/09/2023	SAMPLE NO.	: A66090386 - A66090392
TESTED DATE	: 11/09/2023-13/09/2023	REPORTED DATE	: 13/09/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Ethylbenzene	Sorbent Adsorption, Gas Chromatography Method	28-29/08/2023	< 0.15	mg/m^3
			< 0.03	ppm
		29-30/08/2023	< 0.15	mg/m^3
			< 0.03	ppm
		30-31/08/2023	< 0.15	mg/m^3
			< 0.03	ppm
		31/08/2023-01/09/2023	< 0.15	mg/m^3
			< 0.03	ppm
		01-02/09/2023	< 0.15	mg/m^3
			< 0.03	ppm
		02-03/09/2023	< 0.15	mg/m^3
			< 0.03	ppm
		03-04/09/2023	< 0.15	mg/m^3
			< 0.03	ppm

REMARK: * Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Miss Thanatporn Klinsopon)

13/09/2023

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Request No. ATR6609024

Report No. 6609-0400 - 6609-0406

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17

ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150

SAMPLE SOURCE : GC17 Polystyrene Plant

SAMPLE NAME : โรงเรียนวัดหนองแฟบ

RECEIVED DATE : 11/09/2023 SAMPLE NO. : A66090400 - A66090406

TESTED DATE : 11/09/2023-13/09/2023 REPORTED DATE : 13/09/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	STD[1]	UNIT
Total Suspended Particulate (TSP)	Gravimetric Method	28-29/08/2023	0.037	0.33	mg/m^3
		29-30/08/2023	0.034	0.33	mg/m^3
		30-31/08/2023	0.039	0.33	mg/m^3
		31/08/2023-01/09/2023	0.035	0.33	mg/m^3
		01-02/09/2023	0.029	0.33	mg/m^3
		02-03/09/2023	0.030	0.33	mg/m^3
		03-04/09/2023	0.027	0.33	mg/m^3

REMARK: [1] Notification of The National Environmental Board Volume 24 B.E.2547 (2004) Standard for 24-hr Average.

* Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

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Request No. ATR6609024

Report No. 6609-0414 - 6609-0420

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: โรงเรียนวัดหนองแฟบ		
RECEIVED DATE	: 11/09/2023	SAMPLE NO.	: A66090414 - A66090420
TESTED DATE	: 11/09/2023-13/09/2023	REPORTED DATE	: 13/09/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Styrene	Sorbent Adsorption, Gas Chromatography Method	28-29/08/2023	< 0.16	mg/m^3
			< 0.04	ppm
		29-30/08/2023	< 0.16	mg/m^3
			< 0.04	ppm
		30-31/08/2023	< 0.16	mg/m^3
			< 0.04	ppm
		31/08/2023-01/09/2023	< 0.16	mg/m^3
			< 0.04	ppm
		01-02/09/2023	< 0.16	mg/m^3
			< 0.04	ppm
		02-03/09/2023	< 0.16	mg/m^3
			< 0.04	ppm
		03-04/09/2023	< 0.16	mg/m^3
			< 0.04	ppm

REMARK: * Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Miss Thanatporn Klinsopon)

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683 หมู่ 11 ถ.สุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
เว็บไซต์ : http://www.etc1992.com อี-เมล์ : info@etc1992.com

ACCREDITED LABORATORY ISO/IEC 17025

EASTERN THAI CONSULTING 1992 CO., LTD.
683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6609024

Report No. 6609-0407 - 6609-0413

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17

ADDRESS : 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150

SAMPLE SOURCE : GC17 Polystyrene Plant

SAMPLE NAME : โรงเรียนวัดหนองแฟบ

RECEIVED DATE : 11/09/2023 SAMPLE NO. : A66090407 - A66090413

TESTED DATE : 11/09/2023-13/09/2023 REPORTED DATE : 13/09/2023

PARAMETER*	TEST METHOD	SAMPLING DATE	RESULT	UNIT
Ethylbenzene	Sorbent Adsorption, Gas Chromatography Method	28-29/08/2023	< 0.15	mg/m^3
			< 0.03	ppm
		29-30/08/2023	< 0.15	mg/m^3
			< 0.03	ppm
		30-31/08/2023	< 0.15	mg/m^3
			< 0.03	ppm
		31/08/2023-01/09/2023	< 0.15	mg/m^3
			< 0.03	ppm
		01-02/09/2023	< 0.15	mg/m^3
			< 0.03	ppm
		02-03/09/2023	< 0.15	mg/m^3
			< 0.03	ppm
		03-04/09/2023	< 0.15	mg/m^3
			< 0.03	ppm

REMARK: * Parameter Outside The Scope of The Registration of The Department of Industrial Works.

(Sampling By Mr. Tummarat Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Miss Thanatporn Klinsopon)

13/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928

Report No. R6609-0750 - R6609-0756

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)			
PARAMETER*	: Sulfur Dioxide	SAMPLE NO.	: 27604-27610	
DETERMINATION METHOD	: UV-Fluorescence	SAMPLING DATE	: 28/08/2023-04/09/2023	
INSTRUMENT	: API Model T100 S/N 6457	RECEIVED DATE	: 04/09/2023	
		REPORTED DATE	: 11/09/2023	

TIME / DATE	28-29/08/2023	29-30/08/2023	30-31/08/2023	UNIT
10:00 - 11:00 /3	0.001	0.001	0.001	ppm
11:00 - 12:00	<0.001	0.001	0.001	ppm
12:00 - 13:00	<0.001	0.001	0.001	ppm
13:00 - 14:00	0.001	0.001	0.001	ppm
14:00 - 15:00	<0.001	0.002	0.001	ppm
15:00 - 16:00	0.001	0.002	0.002	ppm
16:00 - 17:00	0.001	0.001	0.002	ppm
17:00 - 18:00	0.003	0.001	<0.001	ppm
18:00 - 19:00	0.001	<0.001	<0.001	ppm
19:00 - 20:00	0.001	0.001	<0.001	ppm
20:00 - 21:00	<0.001	0.001	<0.001	ppm
21:00 - 22:00	<0.001	0.001	<0.001	ppm
22:00 - 23:00	<0.001	0.001	0.001	ppm
23:00 - 00:00	0.001	<0.001	0.001	ppm
00:00 - 01:00	0.001	<0.001	<0.001	ppm
01:00 - 02:00	0.001	<0.001	<0.001	ppm
02:00 - 03:00	<0.001	<0.001	<0.001	ppm
03:00 - 04:00	<0.001	<0.001	<0.001	ppm
04:00 - 05:00	<0.001	<0.001	<0.001	ppm
05:00 - 06:00	<0.001	<0.001	<0.001	ppm
06:00 - 07:00	<0.001	<0.001	0.001	ppm
07:00 - 08:00	<0.001	<0.001	<0.001	ppm
08:00 - 09:00	<0.001	<0.001	0.001	ppm
09:00 - 10:00	0.001	<0.001	<0.001	ppm
Maximum 1 hr.	**0.003**	**0.002**	**0.002**	**ppm**
Average 24 hr.	**0.001**	**0.001**	**0.001**	**ppm**
Standard (1 hr.) /1	**0.30**	**0.30**	**0.30**	**ppm**
Standard (Average 24 hr.) /2	**0.12**	**0.12**	**0.12**	**ppm**

REMARK :

/1 Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)

/2 Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)

/3 Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photamkhum)

Approved By.....
(MS. THANATPORN KLINSOPON)
11/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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ACCREDITED LABORATORY
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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928

Report No. R6609-0750 - R6609-0756

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GC17 Polystyrene Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model T100 S/N 6457

SAMPLE NO. : 27604-27610
SAMPLING DATE : 28/08/2023-04/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 11/09/2023

TIME / DATE	31/08/2023-01/09/2023	01-02/09/2023	02-03/09/2023	UNIT
10:00 - 11:00 /3	0.001	<0.001	0.002	ppm
11:00 - 12:00	0.001	<0.001	0.001	ppm
12:00 - 13:00	0.002	<0.001	0.001	ppm
13:00 - 14:00	0.001	0.001	0.002	ppm
14:00 - 15:00	0.001	0.001	0.002	ppm
15:00 - 16:00	0.001	0.001	0.002	ppm
16:00 - 17:00	0.001	0.001	0.001	ppm
17:00 - 18:00	<0.001	<0.001	0.002	ppm
18:00 - 19:00	0.001	0.001	0.001	ppm
19:00 - 20:00	<0.001	<0.001	0.002	ppm
20:00 - 21:00	<0.001	0.001	0.001	ppm
21:00 - 22:00	<0.001	0.001	0.001	ppm
22:00 - 23:00	<0.001	0.001	<0.001	ppm
23:00 - 00:00	<0.001	0.001	0.001	ppm
00:00 - 01:00	0.001	0.001	0.001	ppm
01:00 - 02:00	0.001	0.001	0.001	ppm
02:00 - 03:00	0.001	<0.001	0.001	ppm
03:00 - 04:00	0.001	0.001	0.001	ppm
04:00 - 05:00	<0.001	<0.001	0.001	ppm
05:00 - 06:00	0.001	0.001	0.001	ppm
06:00 - 07:00	<0.001	<0.001	0.001	ppm
07:00 - 08:00	<0.001	0.001	0.001	ppm
08:00 - 09:00	0.001	<0.001	0.001	ppm
09:00 - 10:00	<0.001	0.001	0.001	ppm
Maximum 1 hr.	**0.002**	**0.001**	**0.002**	**ppm**
Average 24 hr.	**0.001**	**0.001**	**0.001**	**ppm**
Standard (1 hr.) /1	**0.30**	**0.30**	**0.30**	**ppm**
Standard (Average 24 hr.) /2	**0.12**	**0.12**	**0.12**	**ppm**

REMARK :
/1 Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)
/2 Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MS. THANATPORN KLINSOPON)
11/09/2023

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ACCREDITED LABORATORY ISO/IEC 17025

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928

Report No. R6609-0750 - R6609-0756

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE POINT	: บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)		
PARAMETER*	: Sulfur Dioxide	SAMPLE NO.	: 27604-27610
DETERMINATION METHOD	: UV-Fluorescence	SAMPLING DATE	: 28/08/2023-04/09/2023
INSTRUMENT	: API Model T100 S/N 6457	RECEIVED DATE	: 04/09/2023
		REPORTED DATE	: 11/09/2023

TIME / DATE	03-04/09/2023	UNIT
10:00 - 11:00 /3	0.002	ppm
11:00 - 12:00	0.002	ppm
12:00 - 13:00	0.002	ppm
13:00 - 14:00	0.002	ppm
14:00 - 15:00	0.003	ppm
15:00 - 16:00	0.003	ppm
16:00 - 17:00	0.005	ppm
17:00 - 18:00	0.006	ppm
18:00 - 19:00	0.006	ppm
19:00 - 20:00	0.002	ppm
20:00 - 21:00	0.001	ppm
21:00 - 22:00	0.001	ppm
22:00 - 23:00	<0.001	ppm
23:00 - 00:00	<0.001	ppm
00:00 - 01:00	0.001	ppm
01:00 - 02:00	<0.001	ppm
02:00 - 03:00	0.001	ppm
03:00 - 04:00	0.001	ppm
04:00 - 05:00	0.001	ppm
05:00 - 06:00	0.001	ppm
06:00 - 07:00	0.001	ppm
07:00 - 08:00	0.001	ppm
08:00 - 09:00	0.001	ppm
09:00 - 10:00	0.001	ppm
Maximum 1 hr.	**0.006**	**ppm**
Average 24 hr.	**0.002**	**ppm**
Standard (1 hr.) /1	**0.30**	**ppm**
Standard (Average 24 hr.) /2	**0.12**	**ppm**

REMARK :

/1 Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)

/2 Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)

/3 Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummaru Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
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11/09/2023

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Request No. LA66-R0928

Report No. R6609-0736 - R6609-0742

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150		
SAMPLE SOURCE	:	GC17 Polystyrene Plant		
SAMPLE POINT	:	โรงเรียนบ้านหนองแฟบ	SAMPLE NO.	: 27590-27596
PARAMETER*	:	Sulfur Dioxide	SAMPLING DATE	: 28/08/2023-04/09/2023
DETERMINATION METHOD	:	UV-Fluorescence	RECEIVED DATE	: 04/09/2023
INSTRUMENT	:	API Model M100E S/N 3138	REPORTED DATE	: 11/09/2023

TIME / DATE	28-29/08/2023	29-30/08/2023	30-31/08/2023	UNIT
11:00 - 12:00 /3	0.013	0.012	0.012	ppm
12:00 - 13:00	0.014	0.012	0.012	ppm
13:00 - 14:00	0.013	0.012	0.012	ppm
14:00 - 15:00	0.013	0.012	0.011	ppm
15:00 - 16:00	0.012	0.012	0.012	ppm
16:00 - 17:00	0.012	0.012	0.012	ppm
17:00 - 18:00	0.012	0.012	0.012	ppm
18:00 - 19:00	0.012	0.012	0.012	ppm
19:00 - 20:00	0.012	0.012	0.012	ppm
20:00 - 21:00	0.012	0.012	0.012	ppm
21:00 - 22:00	0.012	0.012	0.012	ppm
22:00 - 23:00	0.012	0.012	0.012	ppm
23:00 - 00:00	0.012	0.012	0.012	ppm
00:00 - 01:00	0.012	0.012	0.012	ppm
01:00 - 02:00	0.012	0.012	0.012	ppm
02:00 - 03:00	0.012	0.011	0.012	ppm
03:00 - 04:00	0.012	0.012	0.012	ppm
04:00 - 05:00	0.012	0.012	0.012	ppm
05:00 - 06:00	0.012	0.012	0.012	ppm
06:00 - 07:00	0.012	0.012	0.012	ppm
07:00 - 08:00	0.012	0.012	0.012	ppm
08:00 - 09:00	0.012	0.012	0.012	ppm
09:00 - 10:00	0.012	0.012	0.012	ppm
10:00 - 11:00	0.012	0.012	0.012	ppm
Maximum 1 hr.	**0.014**	**0.012**	**0.012**	**ppm**
Average 24 hr.	**0.012**	**0.012**	**0.012**	**ppm**
Standard (1 hr.) /1	**0.30**	**0.30**	**0.30**	**ppm**
Standard (Average 24 hr.) /2	**0.12**	**0.12**	**0.12**	**ppm**

REMARK :

/1 Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)

/2 Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)

/3 Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhuan)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

11/09/2023

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Request No. LA66-R0928

Report No. R6609-0736 - R6609-0742

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GC17 Polystyrene Plant
SAMPLE POINT : โรงเรียนบ้านหนองแฟบ
PARAMETER* : Sulfur Dioxide
DETERMINATION METHOD : UV-Fluorescence
INSTRUMENT : API Model M100E S/N 3138

SAMPLE NO. : 27590-27596
SAMPLING DATE : 28/08/2023-04/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 11/09/2023

TIME / DATE	31/08/2023-01/09/2023	01-02/09/2023	02-03/09/2023	UNIT
11:00 - 12:00 /3	0.012	0.012	0.012	ppm
12:00 - 13:00	0.012	0.012	0.012	ppm
13:00 - 14:00	0.011	0.012	0.011	ppm
14:00 - 15:00	0.012	0.012	0.011	ppm
15:00 - 16:00	0.012	0.012	0.012	ppm
16:00 - 17:00	0.012	0.011	0.011	ppm
17:00 - 18:00	0.012	0.012	0.012	ppm
18:00 - 19:00	0.012	0.012	0.012	ppm
19:00 - 20:00	0.011	0.012	0.012	ppm
20:00 - 21:00	0.011	0.012	0.012	ppm
21:00 - 22:00	0.012	0.012	0.011	ppm
22:00 - 23:00	0.011	0.012	0.012	ppm
23:00 - 00:00	0.012	0.012	0.011	ppm
00:00 - 01:00	0.012	0.012	0.011	ppm
01:00 - 02:00	0.012	0.012	0.012	ppm
02:00 - 03:00	0.012	0.012	0.011	ppm
03:00 - 04:00	0.012	0.012	0.011	ppm
04:00 - 05:00	0.012	0.012	0.011	ppm
05:00 - 06:00	0.012	0.012	0.012	ppm
06:00 - 07:00	0.012	0.012	0.011	ppm
07:00 - 08:00	0.012	0.012	0.012	ppm
08:00 - 09:00	0.012	0.012	0.011	ppm
09:00 - 10:00	0.012	0.012	0.012	ppm
10:00 - 11:00	0.012	0.012	0.012	ppm
Maximum 1 hr.	**0.012**	**0.012**	**0.012**	**ppm**
Average 24 hr.	**0.012**	**0.012**	**0.011**	**ppm**
Standard (1 hr.) /1	**0.30**	**0.30**	**0.30**	**ppm**
Standard (Average 24 hr.) /2	**0.12**	**0.12**	**0.12**	**ppm**

REMARK :
/1 Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)
/2 Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MS. THANATPORN KLINSOPON)
11/09/2023

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โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
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ACCREDITED LABORATORY ISO/IEC 17025

EASTERN THAI CONSULTING 1992 CO., LTD.
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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928

Report No. R6609-0736 - R6609-0742

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 71-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE POINT	: โรงเรียนบ้านหนองแฟบ	SAMPLE NO.	: 27590-27596
PARAMETER*	: Sulfur Dioxide	SAMPLING DATE	: 28/08/2023-04/09/2023
DETERMINATION METHOD	: UV-Fluorescence	RECEIVED DATE	: 04/09/2023
INSTRUMENT	: API Model M100E S/N 3138	REPORTED DATE	: 11/09/2023

TIME / DATE	03-04/09/2023	UNIT
11:00 - 12:00 /3	0.011	ppm
12:00 - 13:00	0.011	ppm
13:00 - 14:00	0.011	ppm
14:00 - 15:00	0.011	ppm
15:00 - 16:00	0.012	ppm
16:00 - 17:00	0.011	ppm
17:00 - 18:00	0.011	ppm
18:00 - 19:00	0.012	ppm
19:00 - 20:00	0.012	ppm
20:00 - 21:00	0.012	ppm
21:00 - 22:00	0.012	ppm
22:00 - 23:00	0.012	ppm
23:00 - 00:00	0.011	ppm
00:00 - 01:00	0.012	ppm
01:00 - 02:00	0.012	ppm
02:00 - 03:00	0.012	ppm
03:00 - 04:00	0.012	ppm
04:00 - 05:00	0.012	ppm
05:00 - 06:00	0.011	ppm
06:00 - 07:00	0.012	ppm
07:00 - 08:00	0.012	ppm
08:00 - 09:00	0.012	ppm
09:00 - 10:00	0.012	ppm
10:00 - 11:00	0.011	ppm
Maximum 1 hr.	**0.012**	**ppm**
Average 24 hr.	**0.011**	**ppm**
Standard (1 hr.) /1	**0.30**	**ppm**
Standard (Average 24 hr.) /2	**0.12**	**ppm**

REMARK :

/1 Notification of The National Environmental Board Volume 12 B.E. 2538 (1995) and Volume 21 B.E.2544 (2001)

/2 Notification of The National Environmental Board Volume 24 B.E. 2547 (2004)

/3 Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MS. THANATPORN KLINSOPON)
11/09/2023

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Request No. LA66-R0928

Report No. R6609-0757 - R6609-0763

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GC17 Polystyrene Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model M200E S/N 3998

SAMPLE NO. : 27611-27617
SAMPLING DATE : 28/08/2023-04/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 11/09/2023

TIME / DATE	28-29/08/2023	29-30/08/2023	30-31/08/2023	UNIT
10:00 - 11:00 [2]	0.006	0.005	0.007	ppm
11:00 - 12:00	0.011	0.013	0.009	ppm
12:00 - 13:00	0.013	0.022	0.015	ppm
13:00 - 14:00	0.008	0.021	0.034	ppm
14:00 - 15:00	0.015	0.029	0.042	ppm
15:00 - 16:00	0.010	0.037	0.047	ppm
16:00 - 17:00	0.011	0.043	0.052	ppm
17:00 - 18:00	0.011	0.042	0.046	ppm
18:00 - 19:00	0.012	0.039	0.048	ppm
19:00 - 20:00	0.017	0.038	0.032	ppm
20:00 - 21:00	0.016	0.042	0.025	ppm
21:00 - 22:00	0.017	0.039	0.017	ppm
22:00 - 23:00	0.013	0.038	0.013	ppm
23:00 - 00:00	0.016	0.038	0.013	ppm
00:00 - 01:00	0.021	0.040	0.012	ppm
01:00 - 02:00	0.023	0.015	0.008	ppm
02:00 - 03:00	0.021	0.028	0.008	ppm
03:00 - 04:00	0.017	0.008	0.008	ppm
04:00 - 05:00	0.007	0.008	0.008	ppm
05:00 - 06:00	0.006	0.007	0.008	ppm
06:00 - 07:00	0.006	0.007	0.008	ppm
07:00 - 08:00	0.005	0.008	0.008	ppm
08:00 - 09:00	0.005	0.007	0.009	ppm
09:00 - 10:00	0.005	0.008	0.008	ppm
Maximum 1 hr.	**0.023**	**0.043**	**0.052**	**ppm**
Average 24 hr.	**0.012**	**0.024**	**0.020**	**ppm**
Standard (1 hr.) [1]	**0.17**	**0.17**	**0.17**	**ppm**

REMARK :
[1] Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)
[2] Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

Approved By.....
(MS. THANATPORN KLINSOPON)
11/09/2023

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Request No. LA66-R0928

Report No. R6609-0757 - R6609-0763

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GC17 Polystyrene Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)
PARAMETER* : Nitrogen Dioxide
DETERMINATION METHOD : Chemiluminescence
INSTRUMENT : API Model M200E S/N 3998

SAMPLE NO. : 27611-27617
SAMPLING DATE : 28/08/2023-04/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 11/09/2023

TIME / DATE	31/08/2023-01/09/2023	01-02/09/2023	02-03/09/2023	UNIT
10:00 - 11:00 /2	0.009	0.007	0.025	ppm
11:00 - 12:00	0.015	0.007	0.046	ppm
12:00 - 13:00	0.047	0.007	0.035	ppm
13:00 - 14:00	0.031	0.007	0.044	ppm
14:00 - 15:00	0.034	0.009	0.049	ppm
15:00 - 16:00	0.011	0.018	0.049	ppm
16:00 - 17:00	0.010	0.022	0.036	ppm
17:00 - 18:00	0.009	0.014	0.031	ppm
18:00 - 19:00	0.014	0.011	0.033	ppm
19:00 - 20:00	0.009	0.007	0.038	ppm
20:00 - 21:00	0.008	0.007	0.041	ppm
21:00 - 22:00	0.008	0.006	0.008	ppm
22:00 - 23:00	0.007	0.006	0.008	ppm
23:00 - 00:00	0.008	0.007	0.009	ppm
00:00 - 01:00	0.008	0.007	0.008	ppm
01:00 - 02:00	0.012	0.007	0.008	ppm
02:00 - 03:00	0.021	0.006	0.008	ppm
03:00 - 04:00	0.016	0.006	0.008	ppm
04:00 - 05:00	0.011	0.007	0.009	ppm
05:00 - 06:00	0.016	0.007	0.008	ppm
06:00 - 07:00	0.014	0.007	0.008	ppm
07:00 - 08:00	0.008	0.008	0.007	ppm
08:00 - 09:00	0.012	0.007	0.007	ppm
09:00 - 10:00	0.009	0.008	0.007	ppm
Maximum 1 hr.	**0.047**	**0.022**	**0.049**	**ppm**
Average 24 hr.	**0.014**	**0.008**	**0.022**	**ppm**
Standard (1 hr.) /1	**0.17**	**0.17**	**0.17**	**ppm**

REMARK : /1 Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

/2 Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photanklium)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MS. THANATPORN KLINSOPON)
11/09/2023

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Request No. LA66-R0928

Report No. R6609-0757 - R6609-0763

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)			
PARAMETER*	: Nitrogen Dioxide	SAMPLE NO.	:	27611-27617
DETERMINATION METHOD	: Chemiluminescence	SAMPLING DATE	:	28/08/2023-04/09/2023
INSTRUMENT	: API Model M200E S/N 3998	RECEIVED DATE	:	04/09/2023
		REPORTED DATE	:	11/09/2023

TIME / DATE	03-04/09/2023	UNIT
10:00 - 11:00 /2	0.012	ppm
11:00 - 12:00	0.038	ppm
12:00 - 13:00	0.037	ppm
13:00 - 14:00	0.037	ppm
14:00 - 15:00	0.036	ppm
15:00 - 16:00	0.021	ppm
16:00 - 17:00	0.033	ppm
17:00 - 18:00	0.033	ppm
18:00 - 19:00	0.038	ppm
19:00 - 20:00	0.032	ppm
20:00 - 21:00	0.020	ppm
21:00 - 22:00	0.012	ppm
22:00 - 23:00	0.018	ppm
23:00 - 00:00	0.028	ppm
00:00 - 01:00	0.008	ppm
01:00 - 02:00	0.009	ppm
02:00 - 03:00	0.010	ppm
03:00 - 04:00	0.010	ppm
04:00 - 05:00	0.010	ppm
05:00 - 06:00	0.010	ppm
06:00 - 07:00	0.011	ppm
07:00 - 08:00	0.009	ppm
08:00 - 09:00	0.009	ppm
09:00 - 10:00	0.006	ppm
Maximum 1 hr.	**0.038**	**ppm**
Average 24 hr.	**0.020**	**ppm**
Standard (1 hr.) /1	**0.17**	**ppm**

REMARK :

/1 Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

/2 Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

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Request No. LA66-R0928

Report No. R6609-0743 - R6609-0749

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: โรงเรียนบ้านหนองแฟบ	SAMPLE NO.	:	27597-27603
PARAMETER*	: Nitrogen Dioxide	SAMPLING DATE	:	28/08/2023-04/09/2023
DETERMINATION METHOD	: Chemiluminescence	RECEIVED DATE	:	04/09/2023
INSTRUMENT	: API Model T200 S/N 2005	REPORTED DATE	:	11/09/2023

TIME / DATE	28-29/08/2023	29-30/08/2023	30-31/08/2023	UNIT
11:00 - 12:00 /2	0.003	0.003	0.004	ppm
12:00 - 13:00	0.003	0.003	0.003	ppm
13:00 - 14:00	0.002	0.003	0.003	ppm
14:00 - 15:00	0.002	0.004	0.004	ppm
15:00 - 16:00	0.003	0.003	0.003	ppm
16:00 - 17:00	0.003	0.003	0.004	ppm
17:00 - 18:00	0.003	0.004	0.004	ppm
18:00 - 19:00	0.004	0.004	0.004	ppm
19:00 - 20:00	0.004	0.005	0.004	ppm
20:00 - 21:00	0.005	0.004	0.004	ppm
21:00 - 22:00	0.004	0.004	0.003	ppm
22:00 - 23:00	0.004	0.003	0.003	ppm
23:00 - 00:00	0.004	0.003	0.003	ppm
00:00 - 01:00	0.004	0.003	0.003	ppm
01:00 - 02:00	0.004	0.003	0.003	ppm
02:00 - 03:00	0.004	0.003	0.003	ppm
03:00 - 04:00	0.003	0.003	0.003	ppm
04:00 - 05:00	0.003	0.003	0.003	ppm
05:00 - 06:00	0.003	0.003	0.003	ppm
06:00 - 07:00	0.003	0.003	0.003	ppm
07:00 - 08:00	0.004	0.004	0.005	ppm
08:00 - 09:00	0.004	0.006	0.006	ppm
09:00 - 10:00	0.004	0.004	0.005	ppm
10:00 - 11:00	0.003	0.004	0.004	ppm
Maximum 1 hr.	**0.005**	**0.006**	**0.006**	**ppm**
Average 24 hr.	**0.004**	**0.004**	**0.004**	**ppm**
Standard (1 hr.) /1	**0.17**	**0.17**	**0.17**	**ppm**

REMARK : /1 Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

/2 Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarat Photankaum)

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Request No. LA66-R0928

Report No. R6609-0743 - R6609-0749

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: โรงเรียนบ้านหนองแฟบ	SAMPLE NO.	:	27597-27603
PARAMETER*	: Nitrogen Dioxide	SAMPLING DATE	:	28/08/2023-04/09/2023
DETERMINATION METHOD	: Chemiluminescence	RECEIVED DATE	:	04/09/2023
INSTRUMENT	: API Model T200 S/N 2005	REPORTED DATE	:	11/09/2023

TIME / DATE	31/08/2023-01/09/2023	01-02/09/2023	02-03/09/2023	UNIT
11:00 - 12:00 /2	0.004	0.004	0.004	ppm
12:00 - 13:00	0.004	0.004	0.004	ppm
13:00 - 14:00	0.004	0.004	0.004	ppm
14:00 - 15:00	0.004	0.004	0.003	ppm
15:00 - 16:00	0.004	0.004	0.004	ppm
16:00 - 17:00	0.005	0.004	0.003	ppm
17:00 - 18:00	0.005	0.004	0.004	ppm
18:00 - 19:00	0.005	0.005	0.004	ppm
19:00 - 20:00	0.005	0.005	0.004	ppm
20:00 - 21:00	0.004	0.004	0.004	ppm
21:00 - 22:00	0.004	0.003	0.004	ppm
22:00 - 23:00	0.004	0.003	0.004	ppm
23:00 - 00:00	0.004	0.004	0.004	ppm
00:00 - 01:00	0.004	0.003	0.004	ppm
01:00 - 02:00	0.005	0.003	0.004	ppm
02:00 - 03:00	0.005	0.003	0.004	ppm
03:00 - 04:00	0.004	0.003	0.004	ppm
04:00 - 05:00	0.004	0.003	0.003	ppm
05:00 - 06:00	0.005	0.003	0.003	ppm
06:00 - 07:00	0.005	0.003	0.003	ppm
07:00 - 08:00	0.004	0.004	0.004	ppm
08:00 - 09:00	0.005	0.005	0.004	ppm
09:00 - 10:00	0.004	0.005	0.004	ppm
10:00 - 11:00	0.004	0.004	0.004	ppm
Maximum 1 hr.	**0.005**	**0.005**	**0.004**	**ppm**
Average 24 hr.	**0.004**	**0.004**	**0.004**	**ppm**
Standard (1 hr.) /1	**0.17**	**0.17**	**0.17**	**ppm**

REMARK : /1 Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

/2 Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

11/09/2023

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เว็บไซต์ : http://www.etc1992.com อี-เมล์ : info@etc1992.com

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EASTERN THAI CONSULTING 1992 CO., LTD.
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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928

Report No. R6609-0743 - R6609-0749

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: โรงเรียนบ้านหนองแฟบ	SAMPLE NO.	:	27597-27603
PARAMETER*	: Nitrogen Dioxide	SAMPLING DATE	:	28/08/2023-04/09/2023
DETERMINATION METHOD	: Chemiluminescence	RECEIVED DATE	:	04/09/2023
INSTRUMENT	: API Model T200 S/N 2005	REPORTED DATE	:	11/09/2023

TIME / DATE	03-04/09/2023	UNIT
11:00 - 12:00 /2	0.004	ppm
12:00 - 13:00	0.004	ppm
13:00 - 14:00	0.004	ppm
14:00 - 15:00	0.004	ppm
15:00 - 16:00	0.004	ppm
16:00 - 17:00	0.004	ppm
17:00 - 18:00	0.004	ppm
18:00 - 19:00	0.004	ppm
19:00 - 20:00	0.004	ppm
20:00 - 21:00	0.004	ppm
21:00 - 22:00	0.004	ppm
22:00 - 23:00	0.003	ppm
23:00 - 00:00	0.003	ppm
00:00 - 01:00	0.003	ppm
01:00 - 02:00	0.004	ppm
02:00 - 03:00	0.004	ppm
03:00 - 04:00	0.004	ppm
04:00 - 05:00	0.003	ppm
05:00 - 06:00	0.004	ppm
06:00 - 07:00	0.004	ppm
07:00 - 08:00	0.005	ppm
08:00 - 09:00	0.006	ppm
09:00 - 10:00	0.005	ppm
10:00 - 11:00	0.004	ppm
Maximum 1 hr.	**0.006**	**ppm**
Average 24 hr.	**0.004**	**ppm**
Standard (1 hr.) /1	**0.17**	**ppm**

REMARK : /1 Notification of The National Environmental Board Volume 33 B.E. 2552 (2009)

/2 Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works

(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MS. THANATPORN KLINSOPON)

11/09/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Wind Speed & Wind Direction

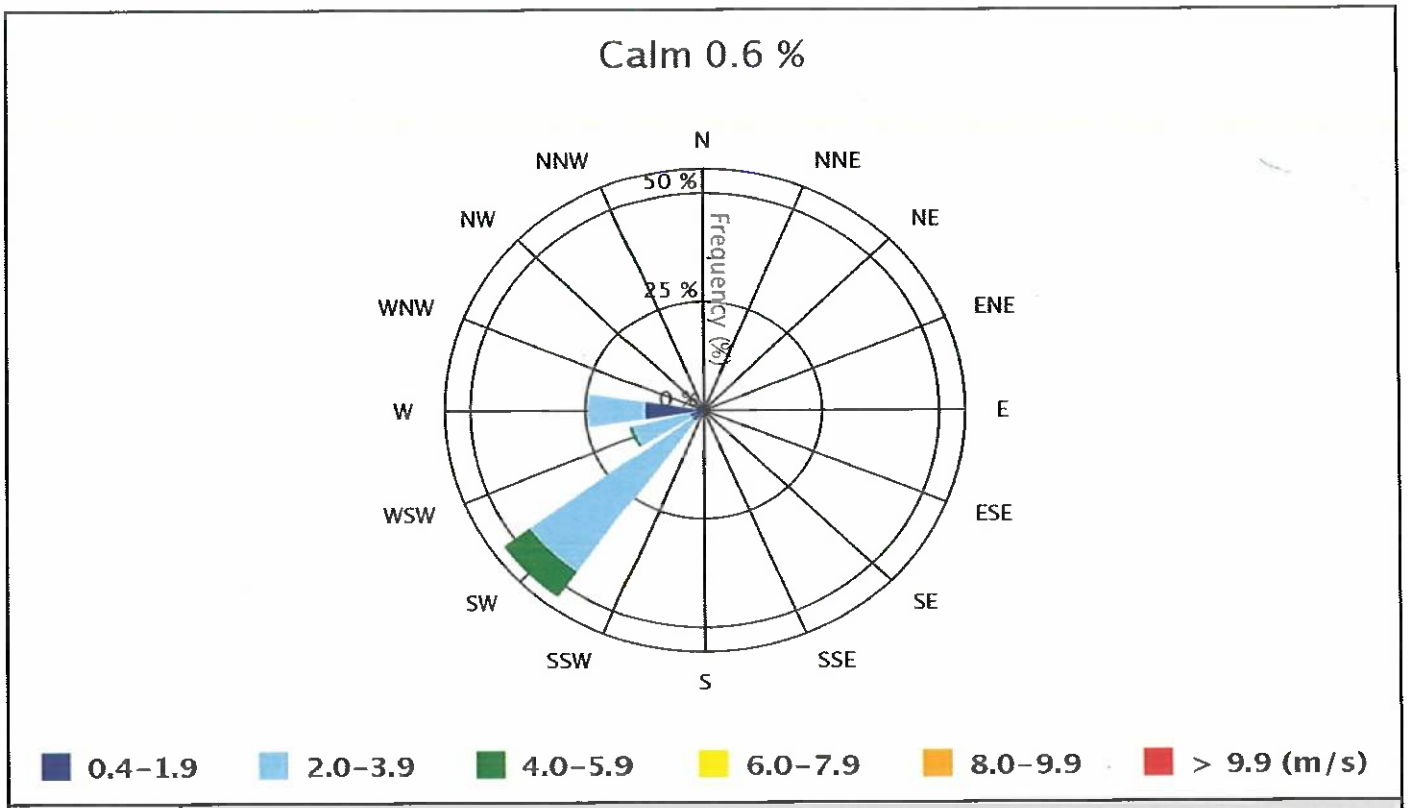
Request No. LA66-R0928

Sample No. 27619

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sampling Source : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)

Sampling Date : August 28 - September 4, 2023



WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	Total
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	2.4	0.0	0.0	0.0	0.0	0.0	2.4
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	1.2	0.0	0.0	0.0	0.0	1.2
SW	3.0	42.9	7.1	0.0	0.0	0.0	53.0
WSW	3.0	12.5	0.6	0.0	0.0	0.0	16.1
W	12.5	11.9	0.0	0.0	0.0	0.0	24.4
WNW	1.8	0.0	0.0	0.0	0.0	0.0	1.8
NW	0.6	0.0	0.0	0.0	0.0	0.0	0.6
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm	0.6						

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Wind Speed & Wind Direction

Request No. LA66-R0928

Sample No. 27619

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sampling Source : บริเวณริมรั้วด้านทิศเหนือของ บริษัท ไทยโพลีอะซีทัล จำกัด (TPAC)

Sampling Date : August 28 - September 4, 2023

Time	August 28-29, 2023		August 29-30, 2023		August 30-31, 2023		August 31-September 1, 2023		September 1-2, 2023		September 2-3, 2023		September 3-4, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
10:00-11:00	0.9	W	3.1	SW	3.1	WSW	1.3	W	0.9	W	2.2	SW	3.6	SW
11:00-12:00	1.8	WSW	3.6	SW	3.1	SW	1.8	SW	2.2	WSW	2.2	W	3.6	SW
12:00-13:00	3.6	W	4.0	SW	3.6	SW	3.1	SW	2.7	WSW	3.1	WSW	3.6	SW
13:00-14:00	4.5	SW	3.6	SW	4.0	SW	4.5	SW	3.1	W	3.1	SW	3.6	SW
14:00-15:00	4.0	SW	3.6	SW	4.0	SW	3.6	SW	4.0	SW	4.0	WSW	4.0	SW
15:00-16:00	3.6	SW	3.6	SW	3.6	SW	2.2	W	3.6	SW	4.0	SW	4.0	SW
16:00-17:00	3.6	SW	3.6	SSW	4.0	SW	2.2	W	4.0	SW	3.6	SW	3.6	SW
17:00-18:00	3.1	SW	3.1	SW	3.6	SW	2.7	SW	3.6	SW	3.6	SW	3.6	SW
18:00-19:00	3.1	SW	2.2	SW	3.1	SW	2.7	SW	2.7	SW	3.1	SW	3.6	SW
19:00-20:00	2.7	SW	1.3	SW	2.7	SSW	2.7	SW	2.7	SW	2.2	SW	3.1	SW
20:00-21:00	2.2	SW	1.8	SW	2.7	SW	2.7	SW	2.7	SW	3.1	SW	3.1	SW
21:00-22:00	2.7	SW	2.2	SW	2.2	SW	2.2	WSW	3.1	SW	3.1	W	3.1	SW
22:00-23:00	2.2	SW	2.7	SW	2.7	SW	1.8	WSW	2.7	SW	3.1	W	2.7	WSW
23:00-00:00	1.3	SW	2.7	SW	2.7	SW	2.2	W	2.7	WSW	2.2	W	2.7	W
00:00-01:00	0.9	W	2.2	SW	2.7	SW	1.3	W	3.6	WSW	1.3	W	2.7	SW
01:00-02:00	1.3	W	2.2	SW	2.2	WSW	0.9	NNE	3.6	WSW	1.8	W	2.2	W
02:00-03:00	1.3	W	2.2	SW	2.7	WSW	0.4	WNW	3.1	WSW	1.3	W	2.2	W
03:00-04:00	1.3	W	2.7	SW	2.7	WSW	0.4	NNE	3.6	WSW	1.8	W	2.2	W
04:00-05:00	1.8	W	2.2	SW	2.2	W	0.4	NNE	3.1	W	0.9	W	1.8	W
05:00-06:00	2.7	WSW	2.2	SW	2.7	WSW	0.0	-	3.1	W	0.9	WNW	2.2	W
06:00-07:00	2.7	WSW	2.7	WSW	2.7	WSW	0.4	WSW	1.3	W	1.3	WSW	2.2	W
07:00-08:00	2.7	SW	2.2	W	1.8	W	0.4	W	0.9	NW	1.3	W	2.2	W
08:00-09:00	2.7	WSW	2.2	WSW	1.3	W	0.4	NNE	0.9	WNW	2.7	SW	2.2	SW
09:00-10:00	2.7	SW	2.2	SW	1.8	WSW	0.9	W	1.3	SW	2.7	SW	3.1	SW

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Request No. LA66-R0928

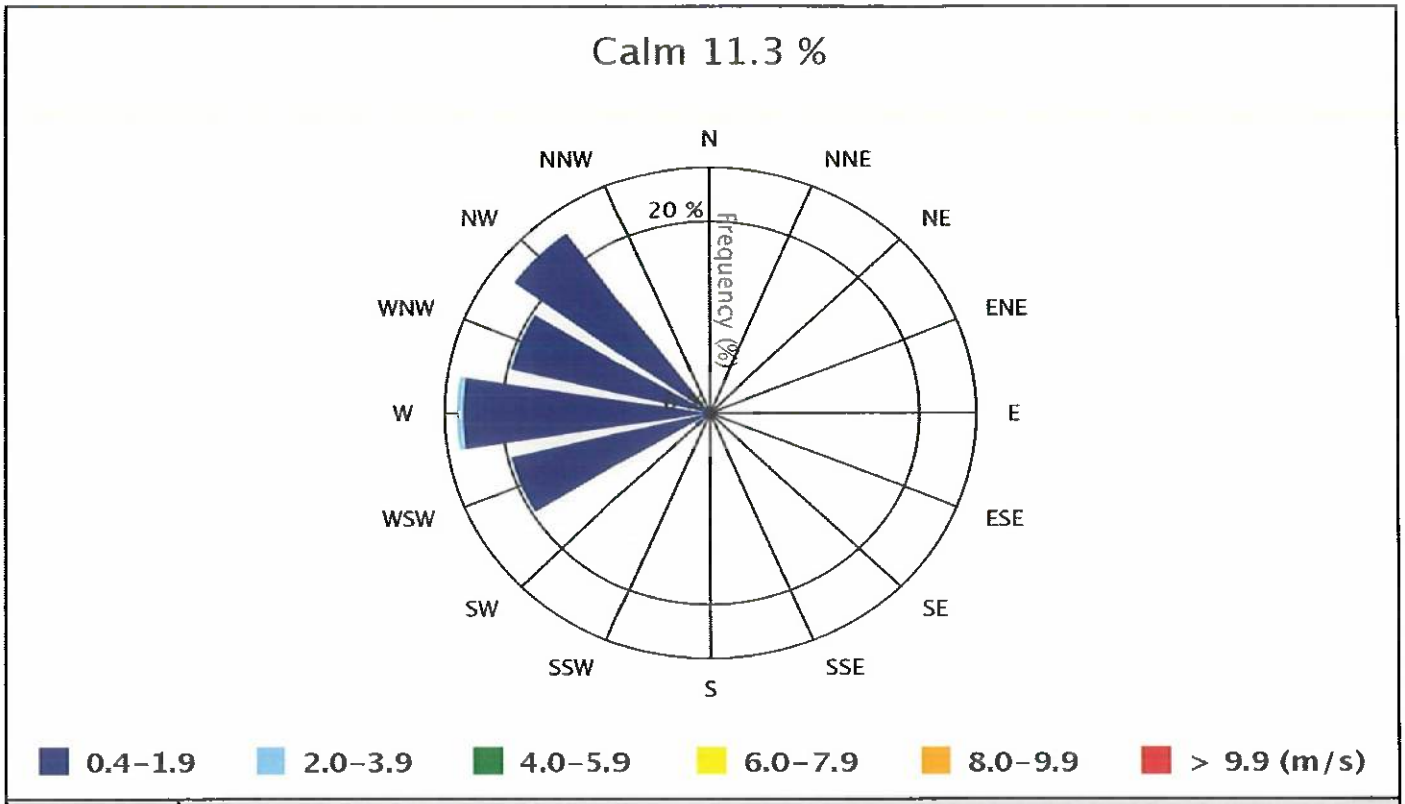
Sample No. 27618

Wind Speed & Wind Direction

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sampling Source : โรงเรียนบ้านหนองแฟบ

Sampling Date : August 28 - September 4, 2023



WD/WS	Percentage of Occurrence of Wind Direct Grouped in Various Wind Speed						
	0.4-1.9 m/s	2.0-3.9 m/s	4.0-5.9 m/s	6.0-7.9 m/s	8.0-9.9 m/s	> 9.9 m/s	Total
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	1.8	0.0	0.0	0.0	0.0	0.0	1.8
WSW	19.6	0.0	0.0	0.0	0.0	0.0	19.6
W	23.8	0.6	0.0	0.0	0.0	0.0	24.4
WNW	19.6	0.0	0.0	0.0	0.0	0.0	19.6
NW	23.2	0.0	0.0	0.0	0.0	0.0	23.2
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Calm	11.3						

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Wind Speed & Wind Direction

Request No. LA66-R0928

Sample No. 27618

PTT Global Chemical Public Company Limited Branch 17 (GC 17 Polystyrene Plant)

Sampling Source : โรงเรียนบ้านหนองแฟบ

Sampling Date : August 28 - September 4, 2023

Time	August 28-29, 2023		August 29-30, 2023		August 30-31, 2023		August 31-September 1, 2023		September 1-2, 2023		September 2-3, 2023		September 3-4, 2023	
	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction	Wind Speed (m/s)	Wind Direction
11:00-12:00	0.4	WNW	0.9	WNW	0.9	WNW	0.9	NW	0.4	W	1.8	W	0.9	WSW
12:00-13:00	0.9	WNW	1.3	WNW	1.3	WNW	0.9	WNW	0.9	WSW	0.9	WSW	1.3	SW
13:00-14:00	1.3	WNW	1.3	WNW	1.3	WNW	1.3	WNW	0.9	W	1.3	WSW	1.3	WSW
14:00-15:00	1.3	WNW	1.3	WNW	1.3	WNW	0.9	NW	1.3	W	1.8	WSW	1.3	WSW
15:00-16:00	1.3	WNW	1.3	WNW	1.3	WNW	1.3	NW	1.3	WSW	1.3	WSW	1.3	WSW
16:00-17:00	1.3	WNW	0.9	W	1.3	WNW	0.4	NW	1.3	W	1.3	WSW	1.3	WSW
17:00-18:00	1.3	WNW	0.9	W	0.9	WNW	0.4	WNW	0.9	WSW	0.9	WSW	1.3	WSW
18:00-19:00	0.9	W	0.9	W	0.4	WNW	0.4	WNW	0.4	WSW	0.9	WSW	1.3	WSW
19:00-20:00	0.4	W	0.4	WSW	0.4	WNW	0.9	WNW	0.4	WSW	0.4	WSW	1.3	WSW
20:00-21:00	0.4	W	0.4	WSW	0.9	WNW	0.4	WNW	0.0	-	0.9	W	1.3	WSW
21:00-22:00	0.9	W	0.4	WNW	0.9	W	0.9	NW	0.4	W	1.8	W	0.9	W
22:00-23:00	0.9	WSW	0.4	W	0.4	W	1.3	NW	0.9	W	2.2	W	0.9	W
23:00-00:00	0.4	NW	0.4	WNW	0.4	WNW	1.3	NW	0.9	W	1.8	W	0.9	W
00:00-01:00	0.0	-	0.4	NW	0.9	NW	0.4	NW	0.9	WSW	1.8	W	0.9	W
01:00-02:00	0.0	-	0.4	NW	1.3	NW	0.0	-	0.4	SW	1.3	W	1.8	W
02:00-03:00	0.9	NW	0.4	WNW	1.3	NW	0.0	-	0.4	SW	0.9	W	1.8	W
03:00-04:00	1.3	NW	0.9	NW	1.3	NW	0.0	-	0.0	-	1.3	W	1.3	W
04:00-05:00	1.8	NW	0.9	NW	1.3	NW	0.0	-	0.0	-	0.9	W	0.9	W
05:00-06:00	1.3	NW	0.4	WNW	0.9	NW	0.0	-	0.4	WSW	0.0	-	1.3	W
06:00-07:00	0.9	NW	0.9	NW	1.3	NW	0.0	-	0.4	WSW	0.0	-	0.9	W
07:00-08:00	0.9	NW	1.3	NW	1.3	NW	0.0	-	0.0	-	0.0	-	1.3	W
08:00-09:00	0.9	NW	0.9	NW	0.9	NW	0.4	NW	0.0	-	0.9	WSW	0.9	W
09:00-10:00	0.9	NW	0.9	NW	1.3	NW	0.0	-	0.4	W	0.9	WSW	0.9	WSW
10:00-11:00	0.9	NW	0.9	NW	0.9	NW	0.0	-	1.3	W	0.9	WSW	0.9	WSW

ผลการทดสอบคุณภาพน้ำทิ้ง

ACCREDITED
ISO 9001 / ISO 14001

EASTERN THAI CONSULTING 1992 CO., LTD.

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LABORATORY ACCREDITATION BLA-DSS
TESTING
No.0159

Test Report

Request No : W6607612
Report No : 6608-0458

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polystyrene Plant**
Sample No : W 66072238
Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้ง##**
Sampling Date : 26/07/2023**
Sampling By : ETC**
Sampling Time : 9:00 AM**
Sampling Method : Grab**
Received Date : 27/07/2023
Tested Date : 27/07/2023 - 01/08/2023
Reported Date : 01/08/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.3	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	< 5	≤ 50	≤50

Physical Apperance : 1. Sample : yellow, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)*
6. ** = These data are non laboratory data. / ## บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-4377)
01/08/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-4367)
01/08/2023

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LABORATORY ACCREDITATION BLA-DSS
TESTING No.0159

Test Report

Request No : W6608251
Report No : 6608-2011

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polyethylene Plant**
Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้ง##**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 10/08/2023 - 22/08/2023

Sample No : W 66080921
Sampling Date : 09/08/2023**
Sampling Time : 1:35 PM**
Received Date : 10/08/2023
Reported Date : 22/08/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	10.7	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	92	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.5	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	32	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	14	≤ 50	≤50

Physical Apperance : 1. Sample : slightly - orange, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (ว-003-ค-0017)*

6. ** = These data are non laboratory data. / ##.บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
22/08/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
22/08/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6609429
Report No : 6609-2010

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source	: GC17 Polystyrene Plant**	Sample No	: W 66091583
Sample Name	: บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้ง##**	Sampling Date	: 15/09/2023**
Sampling By	: ETC**	Sampling Time	: 8:30 AM**
Sampling Method	: Grab**	Received Date	: 16/09/2023
Tested Date	: 16/09/2023 - 22/09/2023	Reported Date	: 27/09/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	6.7		≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	< 40		≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	23		≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	22		≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0		≤5
pH (on site) *		Electrometric Method	7.6		5.5-9.0
Temperature *	°C	Laboratory and Field Method	28		≤40

Physical Apperance : 1. Sample : yellow, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark :
1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ค-0036)*
6. ** = These data are non laboratory data. / ## บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
27/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
27/09/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6609429
Report No : 6609-2010

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polystyrene Plant**
Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้ง##**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 16/09/2023 - 22/09/2023

Sample No : W 66091583
Sampling Date : 15/09/2023**
Sampling Time : 8:30 AM**
Received Date : 16/09/2023
Reported Date : 27/09/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	5		≤50

Physical Apperance : 1. Sample : yellow, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark :
1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
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6. ** = These data are non laboratory data. / ## บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
27/09/2023

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
27/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6610128

Report No : 6610-1048

Customer : PTT Global Chemical Public Company Limited Branch 17**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GC17 Polyethylene Plant**

Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้ง##**

Sampling By : ETC**

Sampling Method : Grab**

Tested Date : 05/10/2023 - 12/10/2023

Sample No : W 66100492

Sampling Date : 04/10/2023**

Sampling Time : 11:05 AM**

Received Date : 05/10/2023

Reported Date : 12/10/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0		≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	< 40		≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20		≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20		≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0		≤5
pH (on site) *		Electrometric Method	7.4		5.5-9.0
Temperature *	°C	Laboratory and Field Method	31		≤40

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.3 L (2 Bottle)]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

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4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (ว-003-ค-0016)*

6. ** = These data are non laboratory data. / ## บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
12/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
12/10/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6610128
Report No : 6610-1048

Customer	:	PTT Global Chemical Public Company Limited Branch 17**			
Address	:	7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**			
Sampling Source	:	GC17 Polyethylene Plant**	Sample No	:	W 66100492
Sample Name	:	บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้ง##**	Sampling Date	:	04/10/2023**
Sampling By	:	ETC**	Sampling Time	:	11:05 AM**
Sampling Method	:	Grab**	Received Date	:	05/10/2023
Tested Date	:	05/10/2023 - 12/10/2023	Reported Date	:	12/10/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	6	≤ 50	≤50

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.3 L (2 Bottle)]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
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5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (ว-003-ค-0016)*

6. ** = These data are non laboratory data. / ## บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
12/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
12/10/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION BLA-DSS
TESTING No.0159

Test Report

Request No : W6611495
Report No : 6611-1994

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polystyrene Plant**
Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม. บริเวณจุดปล่อยน้ำทิ้ง##**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 21/11/2023 - 25/11/2023

Sample No : W 66111653
Sampling Date : 20/11/2023**
Sampling Time : 9:10 AM**
Received Date : 21/11/2023
Reported Date : 25/11/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.0	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	29	≤ 40	≤40

Physical Apperance : 1. Sample : yellowish, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark :
1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (ว-003-ค-0018)*
6. ** = These data are non laboratory data. /## บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
25/11/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
25/11/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
ILA-DSS
TESTING
No.0159

Test Report

Request No : W6611495

Report No : 6611-1994

Customer	:	PTT Global Chemical Public Company Limited Branch 17**			
Address	:	7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**			
Sampling Source	:	GC17 Polystyrene Plant**	Sample No	:	W 66111653
Sample Name	:	บ่อพักน้ำขนาด 3.5 ลบ.ม. บริเวณจุดปล่อยน้ำทิ้ง##**	Sampling Date	:	20/11/2023**
Sampling By	:	ETC**	Sampling Time	:	9:10 AM**
Sampling Method	:	Grab**	Received Date	:	21/11/2023
Tested Date	:	21/11/2023 - 25/11/2023	Reported Date	:	25/11/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	5	≤ 50	≤50

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
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4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (ว-003-ค-0018)*

6. ** = These data are non laboratory data. / ## บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
25/11/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
25/11/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6612138
Report No : 6612-1090

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polystyrene Plant**
Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้ง##**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 07/12/2023 - 14/12/2023

Sample No : W 66120521
Sampling Date : 06/12/2023**
Sampling Time : 1:48 PM**
Received Date : 07/12/2023
Reported Date : 14/12/2023

Parameter	Unit	Method	Result	Standard /2	Standard /1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	7.2	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	27	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	28	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.5	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤ 40	≤40

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (ว-003-ค-0031)*

6. ** = These data are non laboratory data. / ## บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
14/12/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
14/12/2023

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Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com

NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6612138
Report No : 6612-1090

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polystyrene Plant**
Sample Name : บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้ง##**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 07/12/2023 - 14/12/2023

Sample No : W 66120521
Sampling Date : 06/12/2023**
Sampling Time : 1:48 PM**
Received Date : 07/12/2023
Reported Date : 14/12/2023

Parameter	Unit	Method	Result	Standard /2	Standard /1
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤ 50	≤50

Physical Apperance : 1. Sample : yellow, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Suphararerk Phatklang (ว-003-ค-0031)*
6. ** = These data are non laboratory data. / ## บ่อพักน้ำขนาด 3.5 ลบ.ม.บริเวณจุดปล่อยน้ำทิ้งจากอาคารสำนักงานและโรงอาหาร

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
14/12/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
14/12/2023

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LABORATORY ACCREDITATION BLA-DSS
TESTING No.0159

Test Report

Request No :W6607149
Report No :6607-1666

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polyethylene Plant**
Sample Name : จุดระบายน้ำทิ้งจาก Process (Effluent From Process)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 07/07/2023 - 18/07/2023
Sample No : W 66070552
Sampling Date : 05/07/2023**
Sampling Time : 1:00 PM**
Received Date : 06/07/2023
Reported Date : 18/07/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	4.9	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	64	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	24	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	31	≤ 300	≤300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	<3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.3	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	32	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	12	≤ 50	≤50

Physical Apperance : 1. Sample : yellow, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (ว-003-ก-7280)*
6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ก-4377)
18/07/2023

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Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ก-4367)
18/07/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Test Report

Request No :W6607149

Report No :6607 - 1666

Customer : PTT Global Chemical Public Company Limited Branch 17

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source	: GC17 Polyethylene Plant	Sample No	: W 66070552
Sample Name	: จุดระบายน้ำทิ้งจาก Process (Effluent From Process)	Sampling Date	: 05/07/2023
Sampling By	: ETC	Sampling Time	: 1:00 PM
Sampling Method	: Grab	Received Date	: 06/07/2023
Tested Date	: 07/07/2023 - 18/07/2023	Reported Date	: 18/07/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Ethylbenzene #	mg/L	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/L	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/L)

5. Sampling By Mr. Parkpoom Buasawad (ว-003-ค-7280)

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Examined By : .....

(Miss Apiradee Chuen-arom)
18/07/2023

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LABORATORY ACCREDITATION BLA-DSS
TESTING
No.0159

Test Report

Request No : W6608251
Report No : 6608-2012

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source	: GC17 Polyethylene Plant**	Sample No	: W 66080922
Sample Name	: จุดระบายน้ำทิ้งจาก Process (Effluent From Process)**	Sampling Date	: 09/08/2023**
Sampling By	: ETC**	Sampling Time	: 1:20 PM**
Sampling Method	: Grab**	Received Date	: 10/08/2023
Tested Date	: 10/08/2023 - 24/08/2023	Reported Date	: 24/08/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	54	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.4	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	31	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	7	≤ 50	≤50

Physical Apperance : 1. Sample : yellowish, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (ว-003-ศ-0017)*
6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ศ-0007)
24/08/2023

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Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ศ-0005)
24/08/2023

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เว็บไซต์ : http://www.etc1992.com อี-เมล์ : info@etc1992.com

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Test Report

Request No : W6608251
Report No : 6608 - 2012

Customer : PTT Global Chemical Public Company Limited Branch 17
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source	: GC17 Polyethylene Plant	Sample No	: W 66080922
Sample Name	: จุดระบายน้ำทิ้งจาก Process (Effluent From Process)	Sampling Date	: 09/08/2023
Sampling By	: ETC	Sampling Time	: 1:20 PM
Sampling Method	: Grab	Received Date	: 10/08/2023
Tested Date	: 10/08/2023 - 24/08/2023	Reported Date	: 24/08/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Ethylbenzene #	mg/L	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/L	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellowish, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. # Tested by SECOT Co., Ltd.
4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/L)
5. Sampling By Mr. Parkpoom Buasawad

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....
(Miss Apiradee Chuen-arom)
24/08/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6609175
Report No : 6609 - 1288

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polyethylene Plant**
Sample Name : จุดระบายน้ำทิ้งจาก Process (Effluent From Process)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 07/09/2023 - 15/09/2023
Sample No : W 66090636
Sampling Date : 06/09/2023**
Sampling Time : 1:26 PM**
Received Date : 07/09/2023
Reported Date : 15/09/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	45	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.7	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	31	≤ 40	≤40

Physical Apperance : 1. Sample : yellowish, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ค-0036)*
6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
15/09/2023

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
15/09/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6609175

Report No : 6609 - 1288

Customer : PTT Global Chemical Public Company Limited Branch 17**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GC17 Polyethylene Plant**

Sample No : W 66090636

Sample Name : จุดระบายน้ำทิ้งจาก Process (Effluent From Process)**

Sampling Date : 06/09/2023**

Sampling By : ETC**

Sampling Time : 1:26 PM**

Sampling Method : Grab**

Received Date : 07/09/2023

Tested Date : 07/09/2023 - 15/09/2023

Reported Date : 15/09/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	9	≤ 50	≤50

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ค-0036)*

6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
15/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
15/09/2023

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เว็บไซต์ : http://www.etc1992.com อี-เมล์ : info@etc1992.com

ISO/IEC 17025

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Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Test Report

Request No :W6609175

Report No :6609-1288

Customer : PTT Global Chemical Public Company Limited Branch 17

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source	: GC17 Polyethylene Plant	Sample No	: W 66090636
Sample Name	: จุดระบายน้ำทิ้งจาก Process (Effluent From Process)	Sampling Date	: 06/09/2023
Sampling By	: ETC	Sampling Time	: 1:26 PM
Sampling Method	: Grab	Received Date	: 07/09/2023
Tested Date	: 07/09/2023 - 15/09/2023	Reported Date	: 15/09/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Ethylbenzene #	mg/L	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/L	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/L)

5. Sampling By Miss Pornpinan Viriyakusolkul

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)
15/09/2023

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TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6610128

Report No : 6610-1049

Customer : PTT Global Chemical Public Company Limited Branch 17**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GC17 Polyethylene Plant**

Sample Name : จุดระบายน้ำทิ้งจาก Process (Effluent From Process)**

Sampling By : ETC**

Sampling Method : Grab**

Tested Date : 05/10/2023 - 12/10/2023

Sample No : W 66100493

Sampling Date : 04/10/2023**

Sampling Time : 10:40 AM**

Received Date : 05/10/2023

Reported Date : 12/10/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.7	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤ 40	≤40

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (ว-003-ค-0016)*

6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
12/10/2023

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Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
12/10/2023

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EASTERN THAI CONSULTING 1992 CO., LTD.

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6610128

Report No : 6610-1049

Customer : PTT Global Chemical Public Company Limited Branch 17**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GC17 Polyethylene Plant**

Sample No : W 66100493

Sample Name : จุดระบายน้ำทิ้งจาก Process (Effluent From Process)**

Sampling Date : 04/10/2023**

Sampling By : ETC**

Sampling Time : 10:40 AM**

Sampling Method : Grab**

Received Date : 05/10/2023

Tested Date : 05/10/2023 - 12/10/2023

Reported Date : 12/10/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤ 50	≤50

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Test Report

Request No :W6610128

Report No :6610 - 1049

Customer	: PTT Global Chemical Public Company Limited Branch 17		
Address	: 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150		
Sampling Source	: GC17 Polyethylene Plant	Sample No	: W 66100493
Sample Name	: จุดระบายน้ำทิ้งจาก Process (Effluent From Process)	Sampling Date	: 04/10/2023
Sampling By	: ETC	Sampling Time	: 10:40 AM
Sampling Method	: Grab	Received Date	: 05/10/2023
Tested Date	: 05/10/2023 - 12/10/2023	Reported Date	: 12/10/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Ethylbenzene #	mg/L	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/L	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/L)

5. Sampling By Mr. Songpon Phiwuan

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)
12/10/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6611040
Report No : 6611-0827

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polyethylene Plant**
Sample No : W 66110200
Sample Name : จุดระบายน้ำทิ้งจาก Process (Effluent From Process)**
Sampling Date : 01/11/2023**
Sampling By : ETC**
Sampling Time : 10:40 AM**
Sampling Method : Grab**
Received Date : 02/11/2023
Tested Date : 02/11/2023 - 09/11/2023
Reported Date : 09/11/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.7	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	30	≤ 40	≤40

Physical Apperance : 1. Sample : yellowish, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L [2 Bottle]]

Remark :
1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
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4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (ว-003-ค-0017)*
6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
09/11/2023

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Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
09/11/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No :W6611040

Report No :6611-0827

Customer	:	PTT Global Chemical Public Company Limited Branch 17**			
Address	:	7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**			
Sampling Source	:	GC17 Polyethylene Plant**	Sample No	:	W 66110200
Sample Name	:	จุดระบายน้ำทิ้งจาก Process (Effluent From Process)**	Sampling Date	:	01/11/2023**
Sampling By	:	ETC**	Sampling Time	:	10:40 AM**
Sampling Method	:	Grab**	Received Date	:	02/11/2023
Tested Date	:	02/11/2023 - 09/11/2023	Reported Date	:	09/11/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤ 50	≤50

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L [2 Bottle]]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

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Examined By : .....
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09/11/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Test Report

Request No :W6611040

Report No :6611-0827

Customer : PTT Global Chemical Public Company Limited Branch 17

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source	: GC17 Polyethylene Plant	Sample No	: W 66110200
Sample Name	: จุดระบายน้ำทิ้งจาก Process (Effluent From Process)	Sampling Date	: 01/11/2023
Sampling By	: ETC	Sampling Time	: 10:40 AM
Sampling Method	: Grab	Received Date	: 02/11/2023
Tested Date	: 02/11/2023 - 09/11/2023	Reported Date	: 09/11/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Ethylbenzene #	mg/L	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/L	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L [2 Bottle]]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. # Tested by SECOT Co., Ltd.

4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/L)

5. Sampling By Mr. Parkpoom Buasawad

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By : .....

(Miss Apiradee Chuen-arom)
09/11/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6612138
Report No : 6612-1091

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polystyrene Plant** Sample No : W 66120522
Sample Name : จุดระบายน้ำทิ้งจาก Process (Effluent From Process)** Sampling Date : 06/12/2023**
Sampling By : ETC** Sampling Time : 1:25 PM**
Sampling Method : Grab** Received Date : 07/12/2023
Tested Date : 07/12/2023 - 18/12/2023 Reported Date : 18/12/2023

Parameter	Unit	Method	Result	Standard /2	Standard /1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	33	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	39	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.2	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	31	≤ 40	≤40

Physical Apperance : 1. Sample : yellow, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
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4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Suphareerk Phatklang (จ-003-ค-0031)*
6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(จ-003-ค-0007)
18/12/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
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(จ-003-ค-0005)
18/12/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6612138
Report No : 6612-1091

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polystyrene Plant**
Sample Name : จุดระบายน้ำทิ้งจาก Process (Effluent From Process)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 07/12/2023 - 18/12/2023

Sample No : W 66120522
Sampling Date : 06/12/2023**
Sampling Time : 1:25 PM**
Received Date : 07/12/2023
Reported Date : 18/12/2023

Parameter	Unit	Method	Result	Standard/2	Standard /1
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤ 50	≤50

Physical Apperance : 1. Sample : yellow, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
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6. ** = These data are non laboratory data.

Examined By : .....
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(ว-003-ค-0007)
18/12/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Test Report

Request No : W6612138
Report No : 6612 - 1091

Customer : PTT Global Chemical Public Company Limited Branch 17
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150

Sampling Source	: GC17 Polystyrene Plant	Sample No	: W 66120522
Sample Name	: จุดระบายน้ำทิ้งจาก Process (Effluent From Process)	Sampling Date	: 06/12/2023
Sampling By	: ETC	Sampling Time	: 1:25 PM
Sampling Method	: Grab	Received Date	: 07/12/2023
Tested Date	: 07/12/2023 - 18/12/2023	Reported Date	: 18/12/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Ethylbenzene #	mg/L	US EPA 5030C/8260C	ND	-	-
Styrene monomer #	mg/L	US EPA 5030C/8260C	ND	-	-

Physical Apperance : 1. Sample : yellow, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L, G 0.25 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. # Tested by SECOT Co., Ltd.
4. ND = Non-Detectable (Ethylbenzene, Styrene monomer = < 0.0002 mg/L)
5. Sampling By Mr. Supharerk Phatklang

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Examined By : .....
(Miss Apiradee Chuen-arom)
18/12/2023

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Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com

LABORATORY ACCREDITATION
TESTING
No.0159

Test Report

Request No : W6607149
Report No : 6607-1667

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polyethylene Plant**
Sample Name : Cooling Tower GPPS**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 07/07/2023 - 15/07/2023

Sample No : W 66070553
Sampling Date : 05/07/2023**
Sampling Time : 1:40 PM**
Received Date : 06/07/2023
Reported Date : 15/07/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	4.3	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	54	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	21	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.2	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	32	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	5	≤ 50	≤50

Physical Apperance : 1. Sample : yellowish, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (ว-003-ก-7280)*
6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ก-4377)
15/07/2023

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Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ก-4367)
15/07/2023

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LABORATORY ACCREDITATION BLA-DSS
TESTING
No.0159

Test Report

Request No : W6608251
Report No : 6608-2013

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source	: GC17 Polyethylene Plant**	Sample No	: W 66080923
Sample Name	: Cooling Tower GPPS**	Sampling Date	: 09/08/2023**
Sampling By	: ETC**	Sampling Time	: 2:00 PM**
Sampling Method	: Grab**	Received Date	: 10/08/2023
Tested Date	: 10/08/2023 - 22/08/2023	Reported Date	: 22/08/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.1	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Ficld Method	29	≤ 40	≤40
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	< 5	≤ 50	≤50

Physical Apperance : 1. Sample : yellowish, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (ว-003-ก-0017)*
6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ก-0007)
22/08/2023

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ก-0005)
22/08/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
ELA-DSS
TESTING
No.0159

Test Report

Request No : W6609175
Report No : 6609-1289

Customer	:	PTT Global Chemical Public Company Limited Branch 17**			
Address	:	7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**			
Sampling Source	:	GC17 Polyethylene Plant**	Sample No	:	W 66090637
Sample Name	:	Cooling Tower GPPS**	Sampling Date	:	06/09/2023**
Sampling By	:	ETC**	Sampling Time	:	1:44 PM**
Sampling Method	:	Grab**	Received Date	:	07/09/2023
Tested Date	:	07/09/2023 - 14/09/2023	Reported Date	:	14/09/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	3.3	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.2	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	32	≤ 40	≤40

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ค-0036)*
6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
14/09/2023

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Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
14/09/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6609175
Report No : 6609-1289

Customer	:	PTT Global Chemical Public Company Limited Branch 17**			
Address	:	7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**			
Sampling Source	:	GC17 Polyethylene Plant**	Sample No	:	W 66090637
Sample Name	:	Cooling Tower GPPS**	Sampling Date	:	06/09/2023**
Sampling By	:	ETC**	Sampling Time	:	1:44 PM**
Sampling Method	:	Grab**	Received Date	:	07/09/2023
Tested Date	:	07/09/2023 - 14/09/2023	Reported Date	:	14/09/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤ 50	≤50

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
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5. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ค-0036)*
6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
21/09/2014

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
14/09/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
ILA-DSS
TESTING
No.0159

Test Report

Request No : W6610128

Report No : 6610-1050

Customer : PTT Global Chemical Public Company Limited Branch 17**

Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**

Sampling Source : GC17 Polyethylene Plant**

Sample Name : Cooling Tower GPPS**

Sampling By : ETC**

Sampling Method : Grab**

Tested Date : 05/10/2023 - 12/10/2023

Sample No : W 66100494

Sampling Date : 04/10/2023**

Sampling Time : 10:50 AM**

Received Date : 05/10/2023

Reported Date : 12/10/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.7	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	28	≤ 40	≤40

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

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4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (ว-003-ค-0016)*

6. ** = These data are non laboratory data

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
12/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
12/10/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6610128

Report No : 6610-1050

Customer	:	PTT Global Chemical Public Company Limited Branch 17**			
Address	:	7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**			
Sampling Source	:	GC17 Polyethylene Plant**	Sample No	:	W 66100494
Sample Name	:	Cooling Tower GPPS**	Sampling Date	:	04/10/2023**
Sampling By	:	ETC**	Sampling Time	:	10:50 AM**
Sampling Method	:	Grab**	Received Date	:	05/10/2023
Tested Date	:	05/10/2023 - 12/10/2023	Reported Date	:	12/10/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤ 50	≤50

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L*, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark :
1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
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6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ก-0007)
12/10/2023

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ก-0005)
12/10/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6611040
Report No : 6611-0828

Customer	: PTT Global Chemical Public Company Limited Branch 17**		
Address	: 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**		
Sampling Source	: GC17 Polyethylene Plant**	Sample No	: W 66110201
Sample Name	: Cooling Tower GPPS**	Sampling Date	: 01/11/2023**
Sampling By	: ETC**	Sampling Time	: 10:55 AM**
Sampling Method	: Grab**	Received Date	: 02/11/2023
Tested Date	: 02/11/2023 - 09/11/2023	Reported Date	: 09/11/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.8	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	69	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	21	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	24	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	7.4	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	28	≤ 40	≤40

Physical Apperance : 1. Sample : yellowish, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark :
1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
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4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (ว-003-ค-0017)*
6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
09/11/2023

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Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
09/11/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6611040

Report No : 6611-0828

Customer	: PTT Global Chemical Public Company Limited Branch 17**		
Address	: 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**		
Sampling Source	: GC17 Polyethylene Plant**	Sample No	: W 66110201
Sample Name	: Cooling Tower GPPS**	Sampling Date	: 01/11/2023**
Sampling By	: ETC**	Sampling Time	: 10:55 AM**
Sampling Method	: Grab**	Received Date	: 02/11/2023
Tested Date	: 02/11/2023 - 09/11/2023	Reported Date	: 09/11/2023

Parameter	Unit	Method	Result	Standard/2	Standard/1
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤ 50	≤50

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
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5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (ว-003-ค-0017)*

6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
09/11/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
09/11/2023

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NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6612138
Report No : 6612-1092

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polystyrene Plant**
Sample Name : Cooling Tower GPPS**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 07/12/2023 - 14/12/2023

Sample No : W 66120523
Sampling Date : 06/12/2023**
Sampling Time : 1:40 PM**
Received Date : 07/12/2023
Reported Date : 14/12/2023

Parameter	Unit	Method	Result	Standard /2	Standard /1
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 20	≤20
Chemical Oxygen Demand #	mg/L	Closed Reflux,Titrimetric Method (SM:5220C)	< 40	≤ 120	≤120
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	37	≤ 300	≤300
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	30	≤ 300	≤300
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 5	≤5
pH (on site) *		Electrometric Method	8.3	5.5-9.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	31	≤ 40	≤40

Physical Apperance : 1. Sample : lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)
2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)
3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (ว-003-ค-0031)*
6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
14/12/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
14/12/2023

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ACCREDITED
ISO 9001 / ISO 14001

EASTERN THAI CONSULTING 1992 CO., LTD.
683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com

NSC-TISI-TIS 17025
TESTING 1712

LABORATORY ACCREDITATION
BLA-DSS
TESTING
No.0159

Test Report

Request No : W6612138
Report No : 6612-1092

Customer : PTT Global Chemical Public Company Limited Branch 17**
Address : 7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150**
Sampling Source : GC17 Polystyrene Plant**
Sample Name : Cooling Tower GPPS**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 07/12/2023 - 14/12/2023

Sample No : W 66120523
Sampling Date : 06/12/2023**
Sampling Time : 1:40 PM**
Received Date : 07/12/2023
Reported Date : 14/12/2023

Parameter	Unit	Method	Result	Standard /2	Standard /1
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤ 50	≤50

Physical Apperance : 1. Sample : lightly SS

2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]

Remark : 1. /1 Industrial Effluent Standard , Notification of the Ministry of Industry , B.E. 2560 (2017)

2. /2 Notification of the Ministry of Natural Resources and Environmental , B.E. 2559 (2016)

3. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

4. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

5. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Supharerk Phatklang (ว-003-ค-0031)*

6. ** = These data are non laboratory data.

Examined By : .....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
14/12/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By : .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
14/12/2023

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ผลการตรวจวัดระดับเสียงโดยทั่วไป

บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด
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ACCREDITED LABORATORY ISO/IEC 17025

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0764

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศเหนือ			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27620
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	28-29/08/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
	S/N 00230992 : Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	28-29/08/2023 (L_{eq})	28-29/08/2023 (L_{max})	28-29/08/2023 (L_{90})	UNIT
11:00 - 12:00 /3	60.3	73.9	59.4	dB(A)
12:00 - 13:00	60.1	73.4	59.2	dB(A)
13:00 - 14:00	60.4	72.9	59.6	dB(A)
14:00 - 15:00	60.9	69.9	60.1	dB(A)
15:00 - 16:00	60.8	73.5	59.9	dB(A)
16:00 - 17:00	61.0	71.4	60.2	dB(A)
17:00 - 18:00	61.1	72.6	60.3	dB(A)
18:00 - 19:00	61.1	73.1	60.3	dB(A)
19:00 - 20:00	61.3	84.7	59.8	dB(A)
20:00 - 21:00	60.5	72.0	59.8	dB(A)
21:00 - 22:00	60.9	68.8	60.3	dB(A)
22:00 - 23:00	60.3	68.0	59.7	dB(A)
23:00 - 00:00	59.4	63.8	58.9	dB(A)
00:00 - 01:00	59.0	68.4	58.5	dB(A)
01:00 - 02:00	59.7	68.9	59.2	dB(A)
02:00 - 03:00	59.8	64.1	59.3	dB(A)
03:00 - 04:00	59.1	67.2	58.6	dB(A)
04:00 - 05:00	59.3	63.0	58.8	dB(A)
05:00 - 06:00	59.2	65.9	58.6	dB(A)
06:00 - 07:00	60.1	72.6	59.2	dB(A)
07:00 - 08:00	60.1	71.1	59.1	dB(A)
08:00 - 09:00	60.3	75.3	59.1	dB(A)
09:00 - 10:00	60.6	72.0	59.7	dB(A)
10:00 - 11:00	60.5	76.7	59.7	dB(A)
L_{eq} 24 hr.	60.3	-	-	dB(A)
L_{dn}	66.2	-	-	dB(A)
Maximum	-	84.7	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photanchum)

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928

Report No. R6609-0765

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศเหนือ			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27621
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	29-30/08/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
	S/N 00230992 : Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	29-30/08/2023 (L_{eq})	29-30/08/2023 (L_{max})	29-30/08/2023 (L_{90})	UNIT
11:00 - 12:00 /3	60.0	69.7	59.1	dB(A)
12:00 - 13:00	59.3	69.1	58.5	dB(A)
13:00 - 14:00	60.5	74.6	59.4	dB(A)
14:00 - 15:00	60.8	73.6	60.0	dB(A)
15:00 - 16:00	60.6	72.9	59.6	dB(A)
16:00 - 17:00	60.4	74.3	59.6	dB(A)
17:00 - 18:00	60.7	76.3	59.8	dB(A)
18:00 - 19:00	60.7	70.2	59.9	dB(A)
19:00 - 20:00	59.9	71.7	59.1	dB(A)
20:00 - 21:00	59.8	71.2	59.2	dB(A)
21:00 - 22:00	59.9	70.6	59.3	dB(A)
22:00 - 23:00	59.9	65.4	59.4	dB(A)
23:00 - 00:00	59.4	68.1	58.9	dB(A)
00:00 - 01:00	59.3	66.4	58.8	dB(A)
01:00 - 02:00	59.3	64.3	58.8	dB(A)
02:00 - 03:00	59.3	66.8	58.9	dB(A)
03:00 - 04:00	58.8	62.7	58.4	dB(A)
04:00 - 05:00	58.9	65.2	58.4	dB(A)
05:00 - 06:00	59.4	69.6	58.8	dB(A)
06:00 - 07:00	59.9	68.3	59.0	dB(A)
07:00 - 08:00	59.8	68.5	59.0	dB(A)
08:00 - 09:00	60.2	71.6	59.0	dB(A)
09:00 - 10:00	60.4	74.7	59.5	dB(A)
10:00 - 11:00	60.8	75.6	59.9	dB(A)
L_{eq} 24 hr.	60.0	-	-	dB(A)
L_{dn}	65.9	-	-	dB(A)
Maximum	-	76.3	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum).

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928

Report No. R6609-0766

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณริมรั้วด้านทิศเหนือ			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27622
DETERMINATION METHOD	:	ISO 1996-1:2016	MEASURING DATE	:	30-31/08/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
		S/N 00230992 : Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	30-31/08/2023 (L_{eq})	30-31/08/2023 (L_{max})	30-31/08/2023 (L_{90})	UNIT
11:00 - 12:00 /3	60.6	81.5	59.4	dB(A)
12:00 - 13:00	59.5	71.9	58.8	dB(A)
13:00 - 14:00	60.5	69.3	59.8	dB(A)
14:00 - 15:00	63.8	79.8	60.4	dB(A)
15:00 - 16:00	60.6	70.4	59.8	dB(A)
16:00 - 17:00	60.8	72.3	60.0	dB(A)
17:00 - 18:00	60.7	68.3	59.8	dB(A)
18:00 - 19:00	60.4	69.4	59.6	dB(A)
19:00 - 20:00	59.8	73.0	59.1	dB(A)
20:00 - 21:00	60.4	72.2	59.6	dB(A)
21:00 - 22:00	60.2	66.6	59.5	dB(A)
22:00 - 23:00	60.2	69.3	59.6	dB(A)
23:00 - 00:00	59.8	67.2	59.3	dB(A)
00:00 - 01:00	59.7	68.7	59.2	dB(A)
01:00 - 02:00	59.0	69.2	58.5	dB(A)
02:00 - 03:00	59.4	68.2	58.9	dB(A)
03:00 - 04:00	58.8	62.4	58.3	dB(A)
04:00 - 05:00	59.4	66.4	58.9	dB(A)
05:00 - 06:00	59.1	68.7	58.6	dB(A)
06:00 - 07:00	60.2	69.2	59.2	dB(A)
07:00 - 08:00	60.1	72.7	59.1	dB(A)
08:00 - 09:00	59.9	76.4	58.7	dB(A)
09:00 - 10:00	60.0	72.1	59.0	dB(A)
10:00 - 11:00	59.9	70.7	59.1	dB(A)
L_{eq} 24 hr.	60.2	-	-	dB(A)
L_{dn}	66.1	-	-	dB(A)
Maximum	-	81.5	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

/2 Notification of Ministry of the Industry B.E. 2548 (2005)

/3 Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928

Report No. R6609-0767

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150		
SAMPLE SOURCE	:	GC17 Polystyrene Plant		
SAMPLE POINT	:	บริเวณริมรั้วด้านทิศเหนือ		
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 27623
DETERMINATION METHOD	:	ISO 1996-1:2016	MEASURING DATE	: 31/08/2023-01/09/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	: 04/09/2023
		S/N 00230992 : Class 1	REPORTED DATE	: 11/09/2023

TIME \ DATE	31/08/2023-01/09/2023 (L_{eq})	31/08/2023-01/09/2023 (L_{max})	31/08/2023-01/09/2023 (L_{90})	UNIT
11:00 - 12:00 /3	60.1	69.0	59.2	dB(A)
12:00 - 13:00	59.9	76.4	59.1	dB(A)
13:00 - 14:00	60.4	70.2	59.5	dB(A)
14:00 - 15:00	61.9	73.2	60.4	dB(A)
15:00 - 16:00	61.5	71.1	59.9	dB(A)
16:00 - 17:00	60.5	74.3	59.7	dB(A)
17:00 - 18:00	60.6	67.0	59.9	dB(A)
18:00 - 19:00	60.7	71.2	59.9	dB(A)
19:00 - 20:00	60.0	72.5	59.2	dB(A)
20:00 - 21:00	60.2	69.1	59.5	dB(A)
21:00 - 22:00	60.1	67.0	59.5	dB(A)
22:00 - 23:00	60.3	67.9	59.7	dB(A)
23:00 - 00:00	59.5	66.7	58.9	dB(A)
00:00 - 01:00	59.7	71.4	59.2	dB(A)
01:00 - 02:00	59.0	64.6	58.5	dB(A)
02:00 - 03:00	59.3	63.3	58.9	dB(A)
03:00 - 04:00	59.4	61.9	59.0	dB(A)
04:00 - 05:00	59.5	63.7	59.1	dB(A)
05:00 - 06:00	58.9	63.3	58.5	dB(A)
06:00 - 07:00	59.9	69.0	59.0	dB(A)
07:00 - 08:00	60.0	67.3	59.1	dB(A)
08:00 - 09:00	60.3	84.6	58.9	dB(A)
09:00 - 10:00	60.5	78.6	59.5	dB(A)
10:00 - 11:00	60.4	74.9	59.6	dB(A)
L_{eq} 24 hr.	60.2	-	-	dB(A)
L_{dn}	66.1	-	-	dB(A)
Maximum	-	84.6	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Request No. LA66-R0928

Report No. R6609-0768

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณริมรั้วด้านทิศเหนือ			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27624
DETERMINATION METHOD	:	ISO 1996-1:2016	MEASURING DATE	:	01-02/09/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
		S/N 00230992 : Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	01-02/09/2023 (L_{eq})	01-02/09/2023 (L_{max})	01-02/09/2023 (L_{90})	UNIT
11:00 - 12:00 /3	60.2	75.3	59.2	dB(A)
12:00 - 13:00	59.6	74.8	58.7	dB(A)
13:00 - 14:00	60.5	69.6	59.8	dB(A)
14:00 - 15:00	60.9	71.2	60.0	dB(A)
15:00 - 16:00	60.6	69.9	59.7	dB(A)
16:00 - 17:00	60.5	75.6	59.6	dB(A)
17:00 - 18:00	60.5	69.7	59.6	dB(A)
18:00 - 19:00	60.6	73.0	59.8	dB(A)
19:00 - 20:00	60.4	71.3	59.6	dB(A)
20:00 - 21:00	60.1	73.5	59.3	dB(A)
21:00 - 22:00	60.3	68.7	59.7	dB(A)
22:00 - 23:00	60.2	68.1	59.6	dB(A)
23:00 - 00:00	60.1	65.4	59.5	dB(A)
00:00 - 01:00	59.6	66.4	59.0	dB(A)
01:00 - 02:00	59.6	65.9	59.0	dB(A)
02:00 - 03:00	59.8	62.4	59.3	dB(A)
03:00 - 04:00	59.4	63.8	58.9	dB(A)
04:00 - 05:00	59.4	62.4	58.8	dB(A)
05:00 - 06:00	58.9	72.1	58.3	dB(A)
06:00 - 07:00	59.7	72.3	58.8	dB(A)
07:00 - 08:00	60.1	76.7	58.9	dB(A)
08:00 - 09:00	59.5	72.1	58.4	dB(A)
09:00 - 10:00	59.6	70.6	58.9	dB(A)
10:00 - 11:00	59.1	67.4	58.3	dB(A)
L_{eq} 24 hr.	60.0	-	-	dB(A)
L_{dn}	66.1	-	-	dB(A)
Maximum	-	76.7	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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ACCREDITED LABORATORY ISO/IEC 17025

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Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0769

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศเหนือ			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 27625	
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	: 02-03/09/2023	
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	: 04/09/2023	
	S/N 00230992 : Class 1	REPORTED DATE	: 11/09/2023	

TIME \ DATE	02-03/09/2023 (L_{eq})	02-03/09/2023 (L_{max})	02-03/09/2023 (L_{90})	UNIT
11:00 - 12:00 /3	59.3	68.8	58.5	dB(A)
12:00 - 13:00	59.7	69.1	59.0	dB(A)
13:00 - 14:00	59.8	66.3	59.1	dB(A)
14:00 - 15:00	60.3	73.7	59.6	dB(A)
15:00 - 16:00	60.0	73.6	59.2	dB(A)
16:00 - 17:00	59.7	70.4	59.0	dB(A)
17:00 - 18:00	60.2	66.5	59.5	dB(A)
18:00 - 19:00	60.3	74.6	59.5	dB(A)
19:00 - 20:00	59.7	66.9	59.0	dB(A)
20:00 - 21:00	59.7	71.3	59.1	dB(A)
21:00 - 22:00	60.0	78.9	58.9	dB(A)
22:00 - 23:00	59.4	65.6	58.9	dB(A)
23:00 - 00:00	58.9	66.0	58.4	dB(A)
00:00 - 01:00	59.1	72.8	58.6	dB(A)
01:00 - 02:00	58.9	62.2	58.5	dB(A)
02:00 - 03:00	59.2	64.0	58.7	dB(A)
03:00 - 04:00	58.8	65.8	58.4	dB(A)
04:00 - 05:00	58.9	65.9	58.5	dB(A)
05:00 - 06:00	59.3	68.6	58.7	dB(A)
06:00 - 07:00	59.9	73.7	59.2	dB(A)
07:00 - 08:00	60.1	69.5	59.2	dB(A)
08:00 - 09:00	60.3	75.1	58.9	dB(A)
09:00 - 10:00	60.3	72.2	59.5	dB(A)
10:00 - 11:00	60.5	69.7	59.8	dB(A)
L_{eq} 24 hr.	59.7	-	-	dB(A)
L_{dn}	65.7	-	-	dB(A)
Maximum	-	78.9	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928

Report No. R6609-0770

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศเหนือ			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27626
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	03-04/09/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
	S/N 00230992 : Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	03-04/09/2023 (L_{eq})	03-04/09/2023 (L_{max})	03-04/09/2023 (L_{90})	UNIT
11:00 - 12:00 [3]	60.3	73.1	59.5	dB(A)
12:00 - 13:00	59.5	67.0	58.9	dB(A)
13:00 - 14:00	60.4	69.3	59.6	dB(A)
14:00 - 15:00	60.9	72.9	60.1	dB(A)
15:00 - 16:00	60.4	70.2	59.5	dB(A)
16:00 - 17:00	60.8	69.0	60.0	dB(A)
17:00 - 18:00	61.0	68.6	60.3	dB(A)
18:00 - 19:00	60.9	79.4	60.0	dB(A)
19:00 - 20:00	60.2	64.8	59.6	dB(A)
20:00 - 21:00	60.5	70.2	59.9	dB(A)
21:00 - 22:00	60.6	65.8	60.0	dB(A)
22:00 - 23:00	60.9	78.6	60.2	dB(A)
23:00 - 00:00	60.2	69.1	59.7	dB(A)
00:00 - 01:00	59.4	65.1	58.9	dB(A)
01:00 - 02:00	59.2	67.6	58.7	dB(A)
02:00 - 03:00	59.1	63.0	58.6	dB(A)
03:00 - 04:00	59.0	67.9	58.6	dB(A)
04:00 - 05:00	59.2	66.2	58.7	dB(A)
05:00 - 06:00	59.3	73.5	58.7	dB(A)
06:00 - 07:00	60.3	69.3	59.5	dB(A)
07:00 - 08:00	60.4	70.9	59.4	dB(A)
08:00 - 09:00	60.5	75.3	59.4	dB(A)
09:00 - 10:00	60.2	83.7	59.2	dB(A)
10:00 - 11:00	59.9	72.8	58.9	dB(A)
L_{eq} 24 hr.	60.2	-	-	dB(A)
L_{dn}	66.2	-	-	dB(A)
Maximum	-	83.7	-	dB(A)
Standard	70 [1], 70 [2]	115 [1], 115 [2]	-	dB(A)

REMARK : [1] Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

[2] Notification of Ministry of the Industry B.E. 2548 (2005)

[3] Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928

Report No. R6609-0771

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณริมรั้วด้านทิศใต้			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27627
DETERMINATION METHOD	:	ISO 1996-1:2016	MEASURING DATE	:	28-29/08/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
		S/N 00230989 : Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	28-29/08/2023 (L_{eq})	28-29/08/2023 (L_{max})	28-29/08/2023 (L_{90})	UNIT
10:00 - 11:00 /3	60.1	69.9	58.8	dB(A)
11:00 - 12:00	60.7	74.7	59.3	dB(A)
12:00 - 13:00	60.8	69.4	59.5	dB(A)
13:00 - 14:00	59.9	70.7	58.5	dB(A)
14:00 - 15:00	59.9	76.3	58.6	dB(A)
15:00 - 16:00	60.0	68.5	58.6	dB(A)
16:00 - 17:00	60.3	68.9	58.9	dB(A)
17:00 - 18:00	60.1	70.5	58.8	dB(A)
18:00 - 19:00	59.6	75.7	58.3	dB(A)
19:00 - 20:00	59.5	66.3	58.4	dB(A)
20:00 - 21:00	59.4	66.6	58.2	dB(A)
21:00 - 22:00	59.2	66.3	57.9	dB(A)
22:00 - 23:00	58.8	76.7	57.7	dB(A)
23:00 - 00:00	58.0	65.7	57.2	dB(A)
00:00 - 01:00	58.1	62.7	57.2	dB(A)
01:00 - 02:00	58.7	65.5	57.6	dB(A)
02:00 - 03:00	59.0	64.3	57.8	dB(A)
03:00 - 04:00	58.9	64.3	57.7	dB(A)
04:00 - 05:00	59.2	66.3	58.0	dB(A)
05:00 - 06:00	59.3	66.6	58.2	dB(A)
06:00 - 07:00	59.6	66.8	58.4	dB(A)
07:00 - 08:00	59.9	68.8	58.6	dB(A)
08:00 - 09:00	59.9	71.4	58.5	dB(A)
09:00 - 10:00	60.3	68.4	59.0	dB(A)
L_{eq} 24 hr.	59.6	-	-	dB(A)
L_{dn}	65.5	-	-	dB(A)
Maximum	-	76.7	-	dB(A)
Standard	70 /1, 70 /2	115 /3, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankham)

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0772

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศใต้			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 27628	
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	: 29-30/08/2023	
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	: 04/09/2023	
	S/N 00230989 : Class 1	REPORTED DATE	: 11/09/2023	

TIME \ DATE	29-30/08/2023 (L_{eq})	29-30/08/2023 (L_{max})	29-30/08/2023 (L_{90})	UNIT
10:00 - 11:00[3]	60.3	71.1	59.0	dB(A)
11:00 - 12:00	60.3	66.3	58.9	dB(A)
12:00 - 13:00	60.1	69.5	58.7	dB(A)
13:00 - 14:00	59.7	69.4	58.6	dB(A)
14:00 - 15:00	59.9	69.7	58.5	dB(A)
15:00 - 16:00	60.0	66.8	58.8	dB(A)
16:00 - 17:00	60.9	68.6	59.4	dB(A)
17:00 - 18:00	60.8	72.8	59.6	dB(A)
18:00 - 19:00	59.5	72.5	58.3	dB(A)
19:00 - 20:00	59.0	71.1	58.0	dB(A)
20:00 - 21:00	59.4	75.2	58.4	dB(A)
21:00 - 22:00	59.5	64.6	58.5	dB(A)
22:00 - 23:00	59.6	65.1	58.6	dB(A)
23:00 - 00:00	59.1	63.9	58.1	dB(A)
00:00 - 01:00	59.4	63.4	58.6	dB(A)
01:00 - 02:00	59.6	65.4	58.7	dB(A)
02:00 - 03:00	59.6	63.1	58.7	dB(A)
03:00 - 04:00	59.7	66.3	58.5	dB(A)
04:00 - 05:00	59.9	65.5	58.8	dB(A)
05:00 - 06:00	59.6	68.2	58.5	dB(A)
06:00 - 07:00	59.5	75.0	58.5	dB(A)
07:00 - 08:00	59.7	70.5	58.6	dB(A)
08:00 - 09:00	59.9	66.3	58.8	dB(A)
09:00 - 10:00	59.7	74.5	58.6	dB(A)
L_{eq} 24 hr.	59.8	-	-	dB(A)
L_{dn}	66.0	-	-	dB(A)
Maximum	-	75.2	-	dB(A)
Standard	70[1], 70[2]	115[1], 115[2]	-	dB(A)

REMARK : [1] Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
[2] Notification of Ministry of the Industry B.E. 2548 (2005)
[3] Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
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11/09/2023

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Request No. LA66-R0928
Report No. R6609-0773

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศใต้			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 27629	
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	: 30-31/08/2023	
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	: 04/09/2023	
	S/N 00230989 : Class 1	REPORTED DATE	: 11/09/2023	

TIME \ DATE	30-31/08/2023 (L_{eq})	30-31/08/2023 (L_{max})	30-31/08/2023 (L_{90})	UNIT
10:00 - 11:00 [3]	60.3	67.6	59.0	dB(A)
11:00 - 12:00	60.7	69.1	59.4	dB(A)
12:00 - 13:00	60.9	71.1	59.5	dB(A)
13:00 - 14:00	60.9	69.6	59.7	dB(A)
14:00 - 15:00	60.8	68.2	59.6	dB(A)
15:00 - 16:00	60.7	75.6	59.4	dB(A)
16:00 - 17:00	60.8	66.9	59.6	dB(A)
17:00 - 18:00	60.2	67.1	59.0	dB(A)
18:00 - 19:00	59.8	70.1	58.8	dB(A)
19:00 - 20:00	60.2	70.3	59.0	dB(A)
20:00 - 21:00	59.7	65.8	58.6	dB(A)
21:00 - 22:00	59.4	66.1	58.5	dB(A)
22:00 - 23:00	59.8	65.3	58.8	dB(A)
23:00 - 00:00	60.0	67.5	58.8	dB(A)
00:00 - 01:00	59.4	63.9	58.4	dB(A)
01:00 - 02:00	59.5	67.5	58.4	dB(A)
02:00 - 03:00	59.6	65.4	58.5	dB(A)
03:00 - 04:00	59.5	66.1	58.5	dB(A)
04:00 - 05:00	59.6	68.8	58.5	dB(A)
05:00 - 06:00	59.6	66.6	58.5	dB(A)
06:00 - 07:00	59.5	71.2	58.5	dB(A)
07:00 - 08:00	59.5	72.8	58.4	dB(A)
08:00 - 09:00	59.1	69.6	57.9	dB(A)
09:00 - 10:00	58.6	68.6	57.7	dB(A)
L_{eq} 24 hr.	60.0	-	-	dB(A)
L_{dn}	66.1	-	-	dB(A)
Maximum	-	75.6	-	dB(A)
Standard	70 [1], 70 [2]	115 [1], 115 [2]	-	dB(A)

REMARK : [1] Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
[2] Notification of Ministry of the Industry B.E. 2548 (2005)
[3] Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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เว็บไซต์ : http://www.etc1992.com อี-เมล์ : info@etc1992.com

ACCREDITED LABORATORY ISO/IEC 17025

EASTERN THAI CONSULTING 1992 CO., LTD.
683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0774

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศใต้			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27630
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	31/08/2023-01/09/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
	S/N 00230989 : Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	31/08/2023-01/09/2023 (L_{eq})	31/08/2023-01/09/2023 (L_{max})	31/08/2023-01/09/2023 (L_{90})	UNIT
10:00 - 11:00 /3	59.2	70.3	58.1	dB(A)
11:00 - 12:00	60.1	70.5	58.8	dB(A)
12:00 - 13:00	60.8	70.4	59.6	dB(A)
13:00 - 14:00	60.4	69.1	59.1	dB(A)
14:00 - 15:00	59.5	68.9	58.5	dB(A)
15:00 - 16:00	59.6	66.2	58.6	dB(A)
16:00 - 17:00	59.9	69.3	58.8	dB(A)
17:00 - 18:00	59.5	65.7	58.6	dB(A)
18:00 - 19:00	59.8	69.5	58.7	dB(A)
19:00 - 20:00	59.4	69.4	58.4	dB(A)
20:00 - 21:00	59.5	68.8	58.4	dB(A)
21:00 - 22:00	59.3	64.5	58.3	dB(A)
22:00 - 23:00	59.6	68.3	58.6	dB(A)
23:00 - 00:00	58.6	66.4	57.6	dB(A)
00:00 - 01:00	56.8	65.6	55.9	dB(A)
01:00 - 02:00	59.1	66.9	58.2	dB(A)
02:00 - 03:00	57.6	65.0	56.8	dB(A)
03:00 - 04:00	57.5	64.4	56.8	dB(A)
04:00 - 05:00	59.1	69.5	58.5	dB(A)
05:00 - 06:00	59.3	67.0	58.6	dB(A)
06:00 - 07:00	59.3	69.9	58.4	dB(A)
07:00 - 08:00	59.5	70.3	57.6	dB(A)
08:00 - 09:00	59.9	69.7	58.8	dB(A)
09:00 - 10:00	59.8	77.5	58.8	dB(A)
L_{eq} 24 hr.	59.4	-	-	dB(A)
L_{dn}	65.2	-	-	dB(A)
Maximum	-	77.5	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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ACCREDITED LABORATORY ISO/IEC 17025

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0775

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศใต้			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 27631	
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	: 01-02/09/2023	
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	: 04/09/2023	
	S/N 00230989 : Class 1	REPORTED DATE	: 11/09/2023	

TIME \ DATE	01-02/09/2023 (L_{eq})	01-02/09/2023 (L_{max})	01-02/09/2023 (L_{90})	UNIT
10:00 - 11:00 [3]	59.7	74.9	58.7	dB(A)
11:00 - 12:00	60.0	70.1	58.7	dB(A)
12:00 - 13:00	60.2	71.2	58.8	dB(A)
13:00 - 14:00	60.4	70.4	59.1	dB(A)
14:00 - 15:00	60.5	71.8	59.3	dB(A)
15:00 - 16:00	60.8	72.7	59.6	dB(A)
16:00 - 17:00	60.6	69.3	59.6	dB(A)
17:00 - 18:00	60.3	69.2	59.3	dB(A)
18:00 - 19:00	60.4	70.5	59.1	dB(A)
19:00 - 20:00	61.3	71.6	59.5	dB(A)
20:00 - 21:00	60.8	71.9	59.4	dB(A)
21:00 - 22:00	60.4	68.3	59.1	dB(A)
22:00 - 23:00	60.1	68.4	58.8	dB(A)
23:00 - 00:00	60.2	65.8	59.0	dB(A)
00:00 - 01:00	60.2	67.3	58.9	dB(A)
01:00 - 02:00	60.1	67.3	58.9	dB(A)
02:00 - 03:00	60.2	65.7	58.9	dB(A)
03:00 - 04:00	60.0	68.9	58.8	dB(A)
04:00 - 05:00	59.9	66.8	58.8	dB(A)
05:00 - 06:00	59.2	68.9	58.1	dB(A)
06:00 - 07:00	59.1	67.6	58.1	dB(A)
07:00 - 08:00	59.3	68.0	58.2	dB(A)
08:00 - 09:00	59.1	69.6	58.1	dB(A)
09:00 - 10:00	59.3	68.0	58.1	dB(A)
L_{eq} 24 hr.	60.1	-	-	dB(A)
L_{dn}	66.4	-	-	dB(A)
Maximum	-	74.9	-	dB(A)
Standard	70 [1], 70 [2]	115 [1], 115 [2]	-	dB(A)

REMARK : [1] Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
[2] Notification of Ministry of the Industry B.E. 2548 (2005)
[3] Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0776

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศใต้			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27632
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	02-03/09/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
	S/N 00230989 : Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	02-03/09/2023 (L_{eq})	02-03/09/2023 (L_{max})	02-03/09/2023 (L_{90})	UNIT
10:00 - 11:00 [3]	58.2	67.4	57.2	dB(A)
11:00 - 12:00	59.6	66.4	58.4	dB(A)
12:00 - 13:00	60.2	69.2	59.0	dB(A)
13:00 - 14:00	60.4	71.3	59.0	dB(A)
14:00 - 15:00	60.5	70.3	59.3	dB(A)
15:00 - 16:00	60.3	71.3	59.1	dB(A)
16:00 - 17:00	60.0	74.4	58.9	dB(A)
17:00 - 18:00	60.2	65.7	59.0	dB(A)
18:00 - 19:00	59.9	74.9	58.5	dB(A)
19:00 - 20:00	60.1	68.8	58.7	dB(A)
20:00 - 21:00	60.1	66.4	58.7	dB(A)
21:00 - 22:00	59.5	65.8	58.2	dB(A)
22:00 - 23:00	59.7	68.1	58.4	dB(A)
23:00 - 00:00	59.2	66.4	58.0	dB(A)
00:00 - 01:00	59.4	69.3	58.2	dB(A)
01:00 - 02:00	59.2	65.0	58.2	dB(A)
02:00 - 03:00	59.1	63.6	58.0	dB(A)
03:00 - 04:00	59.1	65.1	58.1	dB(A)
04:00 - 05:00	59.0	64.3	58.1	dB(A)
05:00 - 06:00	59.0	67.9	58.2	dB(A)
06:00 - 07:00	59.2	72.4	58.3	dB(A)
07:00 - 08:00	59.9	69.1	58.8	dB(A)
08:00 - 09:00	59.6	71.2	58.4	dB(A)
09:00 - 10:00	59.6	68.6	58.3	dB(A)
L_{eq} 24 hr.	59.7	-	-	dB(A)
L_{dn}	65.7	-	-	dB(A)
Maximum	-	74.9	-	dB(A)
Standard	70 [1], 70 [2]	115 [1], 115 [2]	-	dB(A)

REMARK : [1] Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
[2] Notification of Ministry of the Industry B.E. 2548 (2005)
[3] Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Request No. LA66-R0928
Report No. R6609-0777

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศใต้			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 27633	
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	: 03-04/09/2023	
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	: 04/09/2023	
	S/N 00230989 : Class 1	REPORTED DATE	: 11/09/2023	

TIME \ DATE	03-04/09/2023 (L_{eq})	03-04/09/2023 (L_{max})	03-04/09/2023 (L_{90})	UNIT
10:00 - 11:00 /3	60.0	73.4	58.6	dB(A)
11:00 - 12:00	60.0	71.0	58.7	dB(A)
12:00 - 13:00	62.0	79.7	59.0	dB(A)
13:00 - 14:00	59.8	70.8	58.4	dB(A)
14:00 - 15:00	59.8	73.6	58.5	dB(A)
15:00 - 16:00	59.5	68.3	58.2	dB(A)
16:00 - 17:00	59.8	70.4	58.5	dB(A)
17:00 - 18:00	60.0	66.4	58.8	dB(A)
18:00 - 19:00	60.3	70.6	59.1	dB(A)
19:00 - 20:00	60.4	66.7	59.2	dB(A)
20:00 - 21:00	60.3	65.7	59.0	dB(A)
21:00 - 22:00	60.3	68.8	58.9	dB(A)
22:00 - 23:00	60.0	65.6	58.7	dB(A)
23:00 - 00:00	59.8	65.2	58.6	dB(A)
00:00 - 01:00	59.3	66.6	58.0	dB(A)
01:00 - 02:00	59.3	66.0	58.1	dB(A)
02:00 - 03:00	59.0	65.9	58.0	dB(A)
03:00 - 04:00	58.9	76.7	57.8	dB(A)
04:00 - 05:00	59.0	64.5	57.9	dB(A)
05:00 - 06:00	59.1	69.9	58.1	dB(A)
06:00 - 07:00	59.4	67.8	58.2	dB(A)
07:00 - 08:00	59.3	71.1	58.0	dB(A)
08:00 - 09:00	59.8	68.7	58.5	dB(A)
09:00 - 10:00	59.5	68.4	58.2	dB(A)
L_{eq} 24 hr.	59.8	-	-	dB(A)
L_{dn}	65.9	-	-	dB(A)
Maximum	-	79.7	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Request No. LA66-R0928

Report No. R6609-0778

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศตะวันออก			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 27635	
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	: 28-29/08/2023	
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	: 04/09/2023	
	S/N 00230995 : Class 1	REPORTED DATE	: 11/09/2023	

TIME \ DATE	28-29/08/2023 (L_{eq})	28-29/08/2023 (L_{max})	28-29/08/2023 (L_{90})	UNIT
10:00 - 11:00 [3]	66.1	80.3	58.9	dB(A)
11:00 - 12:00	66.0	82.9	57.8	dB(A)
12:00 - 13:00	65.1	84.0	57.0	dB(A)
13:00 - 14:00	66.3	85.2	58.3	dB(A)
14:00 - 15:00	66.1	89.6	58.6	dB(A)
15:00 - 16:00	66.9	87.5	59.4	dB(A)
16:00 - 17:00	65.8	86.7	58.1	dB(A)
17:00 - 18:00	66.1	86.5	58.4	dB(A)
18:00 - 19:00	65.9	82.1	57.7	dB(A)
19:00 - 20:00	64.8	87.4	56.3	dB(A)
20:00 - 21:00	64.8	86.8	56.4	dB(A)
21:00 - 22:00	62.4	79.8	55.7	dB(A)
22:00 - 23:00	63.0	85.5	55.3	dB(A)
23:00 - 00:00	60.8	78.0	54.8	dB(A)
00:00 - 01:00	58.3	77.0	54.5	dB(A)
01:00 - 02:00	59.2	77.9	55.2	dB(A)
02:00 - 03:00	59.2	77.6	55.2	dB(A)
03:00 - 04:00	58.8	78.3	54.7	dB(A)
04:00 - 05:00	58.9	79.5	55.0	dB(A)
05:00 - 06:00	59.8	76.2	55.2	dB(A)
06:00 - 07:00	64.3	82.1	57.6	dB(A)
07:00 - 08:00	66.5	88.6	58.8	dB(A)
08:00 - 09:00	67.4	86.9	61.1	dB(A)
09:00 - 10:00	65.9	81.6	59.6	dB(A)
L_{eq} 24 hr.	64.6	-	-	dB(A)
L_{dn}	68.4	-	-	dB(A)
Maximum	-	89.6	-	dB(A)
Standard	70 [1], 70 [2]	115 [1], 115 [2]	-	dB(A)

REMARK : [1] Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)

[2] Notification of Ministry of the Industry B.E. 2548 (2005)

[3] Start Time

* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0779

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150		
SAMPLE SOURCE	:	GC17 Polystyrene Plant		
SAMPLE POINT	:	บริเวณริมรั้วด้านทิศตะวันออก		
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 27636
DETERMINATION METHOD	:	ISO 1996-1:2016	MEASURING DATE	: 29-30/08/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	: 04/09/2023
		S/N 00230995 : Class 1	REPORTED DATE	: 11/09/2023

TIME \ DATE	29-30/08/2023 (L_{eq})	29-30/08/2023 (L_{max})	29-30/08/2023 (L_{90})	UNIT
10:00 - 11:00 /3	66.5	84.7	59.5	dB(A)
11:00 - 12:00	66.4	86.4	58.5	dB(A)
12:00 - 13:00	65.6	92.2	57.9	dB(A)
13:00 - 14:00	67.1	84.4	60.5	dB(A)
14:00 - 15:00	66.9	87.0	60.3	dB(A)
15:00 - 16:00	65.6	83.5	59.0	dB(A)
16:00 - 17:00	66.7	82.0	60.4	dB(A)
17:00 - 18:00	66.2	83.5	60.2	dB(A)
18:00 - 19:00	66.0	84.5	59.1	dB(A)
19:00 - 20:00	64.2	82.2	57.1	dB(A)
20:00 - 21:00	63.1	80.4	56.8	dB(A)
21:00 - 22:00	61.2	79.4	57.1	dB(A)
22:00 - 23:00	62.1	80.7	58.4	dB(A)
23:00 - 00:00	61.1	75.4	59.0	dB(A)
00:00 - 01:00	60.9	75.2	58.2	dB(A)
01:00 - 02:00	61.2	76.4	58.5	dB(A)
02:00 - 03:00	60.3	75.7	58.5	dB(A)
03:00 - 04:00	59.8	77.4	58.6	dB(A)
04:00 - 05:00	59.9	74.2	58.6	dB(A)
05:00 - 06:00	61.2	79.6	59.4	dB(A)
06:00 - 07:00	65.3	84.4	59.9	dB(A)
07:00 - 08:00	67.1	86.1	61.1	dB(A)
08:00 - 09:00	66.1	85.6	60.9	dB(A)
09:00 - 10:00	65.7	81.4	61.1	dB(A)
L_{eq} 24 hr.	64.7	-	-	dB(A)
L_{dn}	69.0	-	-	dB(A)
Maximum	-	92.2	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0780

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศตะวันออก			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 27637	
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	: 30-31/08/2023	
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	: 04/09/2023	
	S/N 00230995 : Class 1	REPORTED DATE	: 11/09/2023	

TIME \ DATE	30-31/08/2023 (L_{eq})	30-31/08/2023 (L_{max})	30-31/08/2023 (L_{90})	UNIT
10:00 - 11:00 /3	66.2	85.5	60.8	dB(A)
11:00 - 12:00	65.9	83.7	60.2	dB(A)
12:00 - 13:00	64.8	83.4	59.1	dB(A)
13:00 - 14:00	66.2	82.0	62.4	dB(A)
14:00 - 15:00	65.3	86.8	59.5	dB(A)
15:00 - 16:00	65.7	80.4	59.9	dB(A)
16:00 - 17:00	66.1	81.7	60.1	dB(A)
17:00 - 18:00	66.3	84.6	59.7	dB(A)
18:00 - 19:00	65.3	84.2	58.5	dB(A)
19:00 - 20:00	64.3	86.9	56.8	dB(A)
20:00 - 21:00	64.5	85.2	57.4	dB(A)
21:00 - 22:00	60.2	82.2	56.8	dB(A)
22:00 - 23:00	60.2	80.5	57.9	dB(A)
23:00 - 00:00	59.9	75.4	58.7	dB(A)
00:00 - 01:00	60.7	76.1	59.5	dB(A)
01:00 - 02:00	60.0	75.5	58.9	dB(A)
02:00 - 03:00	59.9	71.6	59.2	dB(A)
03:00 - 04:00	59.4	79.1	57.8	dB(A)
04:00 - 05:00	59.4	75.7	58.0	dB(A)
05:00 - 06:00	60.0	77.6	57.7	dB(A)
06:00 - 07:00	64.5	83.5	58.9	dB(A)
07:00 - 08:00	66.8	84.2	59.7	dB(A)
08:00 - 09:00	66.2	85.8	59.3	dB(A)
09:00 - 10:00	65.0	81.6	59.1	dB(A)
L_{eq} 24 hr.	64.2	-	-	dB(A)
L_{dn}	68.2	-	-	dB(A)
Maximum	-	86.9	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0781

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศตะวันออก			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27638
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	31/08/2023-01/09/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
	S/N 00230995 : Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	31/08/2023-01/09/2023 (L_{eq})	31/08/2023-01/09/2023 (L_{max})	31/08/2023-01/09/2023 (L_{90})	UNIT
10:00 - 11:00 /3	65.6	84.3	59.1	dB(A)
11:00 - 12:00	65.6	82.9	58.7	dB(A)
12:00 - 13:00	64.3	80.0	57.9	dB(A)
13:00 - 14:00	66.2	83.9	59.2	dB(A)
14:00 - 15:00	65.9	82.4	60.6	dB(A)
15:00 - 16:00	67.2	85.1	59.9	dB(A)
16:00 - 17:00	66.2	85.1	59.5	dB(A)
17:00 - 18:00	65.5	86.1	59.2	dB(A)
18:00 - 19:00	65.5	88.5	57.2	dB(A)
19:00 - 20:00	63.8	93.3	55.8	dB(A)
20:00 - 21:00	64.0	85.7	57.7	dB(A)
21:00 - 22:00	60.6	83.0	57.6	dB(A)
22:00 - 23:00	62.2	88.1	58.6	dB(A)
23:00 - 00:00	60.1	79.3	58.5	dB(A)
00:00 - 01:00	59.9	77.2	58.3	dB(A)
01:00 - 02:00	59.3	75.2	58.1	dB(A)
02:00 - 03:00	58.3	74.5	57.7	dB(A)
03:00 - 04:00	59.1	76.2	58.4	dB(A)
04:00 - 05:00	61.0	87.6	58.0	dB(A)
05:00 - 06:00	60.3	80.0	57.6	dB(A)
06:00 - 07:00	64.7	84.9	58.8	dB(A)
07:00 - 08:00	65.9	88.7	59.9	dB(A)
08:00 - 09:00	67.5	86.4	61.3	dB(A)
09:00 - 10:00	65.7	85.2	59.3	dB(A)
L_{eq} 24 hr.	64.3	-	-	dB(A)
L_{dn}	68.4	-	-	dB(A)
Maximum	-	93.3	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Phoolchum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0782

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150		
SAMPLE SOURCE	:	GC17 Polystyrene Plant		
SAMPLE POINT	:	บริเวณริมรั้วด้านทิศตะวันออก		
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 27639
DETERMINATION METHOD	:	ISO 1996-1:2016	MEASURING DATE	: 01-02/09/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	: 04/09/2023
		S/N 00230995 : Class 1	REPORTED DATE	: 11/09/2023

TIME \ DATE	01-02/09/2023 (L_{eq})	01-02/09/2023 (L_{max})	01-02/09/2023 (L_{90})	UNIT
10:00 - 11:00 /3	66.8	85.9	60.2	dB(A)
11:00 - 12:00	66.4	84.6	59.7	dB(A)
12:00 - 13:00	65.3	84.4	58.2	dB(A)
13:00 - 14:00	67.0	88.4	60.1	dB(A)
14:00 - 15:00	65.4	83.4	59.1	dB(A)
15:00 - 16:00	66.6	89.1	60.0	dB(A)
16:00 - 17:00	66.7	84.0	60.4	dB(A)
17:00 - 18:00	66.4	84.0	60.2	dB(A)
18:00 - 19:00	65.2	83.8	57.7	dB(A)
19:00 - 20:00	64.1	84.6	57.1	dB(A)
20:00 - 21:00	64.1	89.1	57.5	dB(A)
21:00 - 22:00	59.7	78.6	57.3	dB(A)
22:00 - 23:00	61.7	84.9	57.9	dB(A)
23:00 - 00:00	60.6	77.2	58.6	dB(A)
00:00 - 01:00	60.7	77.2	58.8	dB(A)
01:00 - 02:00	59.6	74.5	58.4	dB(A)
02:00 - 03:00	59.7	82.4	58.3	dB(A)
03:00 - 04:00	59.2	75.1	58.4	dB(A)
04:00 - 05:00	58.9	71.3	57.9	dB(A)
05:00 - 06:00	59.9	79.0	57.8	dB(A)
06:00 - 07:00	64.5	82.7	58.7	dB(A)
07:00 - 08:00	66.9	88.2	59.1	dB(A)
08:00 - 09:00	65.1	87.2	58.6	dB(A)
09:00 - 10:00	64.6	82.8	58.5	dB(A)
L_{eq} 24 hr.	64.4	-	-	dB(A)
L_{dn}	68.4	-	-	dB(A)
Maximum	-	89.1	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photanklium)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0783

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GC17 Polystyrene Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00230995 : Class 1

SAMPLE NO. : 27640
MEASURING DATE : 02-03/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 11/09/2023

TIME \ DATE	02-03/09/2023 (L_{eq})	02-03/09/2023 (L_{max})	02-03/09/2023 (L_{90})	UNIT
10:00 - 11:00 /3	64.4	79.8	58.5	dB(A)
11:00 - 12:00	65.4	82.1	58.9	dB(A)
12:00 - 13:00	64.4	82.9	58.8	dB(A)
13:00 - 14:00	64.8	84.1	59.3	dB(A)
14:00 - 15:00	65.0	82.3	59.9	dB(A)
15:00 - 16:00	65.6	92.8	59.4	dB(A)
16:00 - 17:00	65.3	82.5	60.0	dB(A)
17:00 - 18:00	65.8	81.1	60.2	dB(A)
18:00 - 19:00	66.3	88.9	59.3	dB(A)
19:00 - 20:00	64.8	83.9	58.9	dB(A)
20:00 - 21:00	64.2	84.2	58.5	dB(A)
21:00 - 22:00	60.5	76.3	58.6	dB(A)
22:00 - 23:00	62.0	81.7	59.4	dB(A)
23:00 - 00:00	61.5	78.7	59.7	dB(A)
00:00 - 01:00	61.5	78.9	60.0	dB(A)
01:00 - 02:00	60.4	75.6	59.7	dB(A)
02:00 - 03:00	60.2	74.3	59.6	dB(A)
03:00 - 04:00	60.3	71.9	59.5	dB(A)
04:00 - 05:00	60.7	87.7	58.7	dB(A)
05:00 - 06:00	60.8	83.4	58.5	dB(A)
06:00 - 07:00	63.3	85.7	58.7	dB(A)
07:00 - 08:00	64.6	84.1	58.2	dB(A)
08:00 - 09:00	66.2	90.2	59.0	dB(A)
09:00 - 10:00	66.1	84.9	58.4	dB(A)
L_{eq} 24 hr.	64.0	-	-	dB(A)
L_{dn}	68.5	-	-	dB(A)
Maximum	-	92.8	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankham)
/3 Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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ACCREDITED LABORATORY ISO/IEC 17025

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Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0784

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GC17 Polystyrene Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันออก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00230995 : Class 1

SAMPLE NO. : 27641
MEASURING DATE : 03-04/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 11/09/2023

TIME \ DATE	03-04/09/2023 (L_{eq})	03-04/09/2023 (L_{max})	03-04/09/2023 (L_{90})	UNIT
10:00 - 11:00 /3	64.3	82.5	57.9	dB(A)
11:00 - 12:00	65.1	88.9	58.2	dB(A)
12:00 - 13:00	62.9	81.5	56.2	dB(A)
13:00 - 14:00	64.1	82.4	57.7	dB(A)
14:00 - 15:00	64.4	88.7	57.6	dB(A)
15:00 - 16:00	61.9	79.2	56.9	dB(A)
16:00 - 17:00	63.9	89.9	57.0	dB(A)
17:00 - 18:00	61.0	83.1	56.4	dB(A)
18:00 - 19:00	62.1	93.4	56.5	dB(A)
19:00 - 20:00	62.2	90.4	56.5	dB(A)
20:00 - 21:00	62.3	82.4	56.9	dB(A)
21:00 - 22:00	60.1	75.0	56.6	dB(A)
22:00 - 23:00	61.3	85.0	57.0	dB(A)
23:00 - 00:00	61.4	78.0	56.8	dB(A)
00:00 - 01:00	60.5	78.9	56.8	dB(A)
01:00 - 02:00	60.1	77.1	56.8	dB(A)
02:00 - 03:00	60.3	77.5	56.9	dB(A)
03:00 - 04:00	60.2	79.1	56.1	dB(A)
04:00 - 05:00	59.5	78.0	54.8	dB(A)
05:00 - 06:00	60.5	75.9	55.4	dB(A)
06:00 - 07:00	64.4	85.8	56.5	dB(A)
07:00 - 08:00	66.1	84.7	58.4	dB(A)
08:00 - 09:00	66.1	92.1	59.0	dB(A)
09:00 - 10:00	66.0	91.6	58.7	dB(A)
L_{eq} 24 hr.	63.0	-	-	dB(A)
L_{dn}	68.1	-	-	dB(A)
Maximum	-	93.4	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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เว็บไซต์ : http://www.etc1992.com อี-เมล์ : info@etc1992.com

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Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0785

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GC17 Polystyrene Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00230993 : Class 1

SAMPLE NO. : 27642
MEASURING DATE : 28-29/08/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 11/09/2023

TIME \ DATE	28-29/08/2023 (L_{eq})	28-29/08/2023 (L_{max})	28-29/08/2023 (L_{90})	UNIT
11:00 - 12:00 /3	64.6	69.2	64.3	dB(A)
12:00 - 13:00	64.6	72.7	64.3	dB(A)
13:00 - 14:00	64.6	69.2	64.3	dB(A)
14:00 - 15:00	64.7	72.0	64.4	dB(A)
15:00 - 16:00	64.6	70.0	64.3	dB(A)
16:00 - 17:00	64.7	67.4	64.4	dB(A)
17:00 - 18:00	64.8	71.2	64.5	dB(A)
18:00 - 19:00	64.9	70.6	64.6	dB(A)
19:00 - 20:00	64.7	68.7	64.4	dB(A)
20:00 - 21:00	64.6	67.4	64.3	dB(A)
21:00 - 22:00	65.0	67.7	64.7	dB(A)
22:00 - 23:00	64.8	67.8	64.5	dB(A)
23:00 - 00:00	64.6	67.5	64.3	dB(A)
00:00 - 01:00	64.5	70.8	64.2	dB(A)
01:00 - 02:00	64.7	71.0	64.5	dB(A)
02:00 - 03:00	64.7	65.7	64.4	dB(A)
03:00 - 04:00	64.5	70.4	64.2	dB(A)
04:00 - 05:00	64.5	67.0	64.2	dB(A)
05:00 - 06:00	64.6	66.3	64.3	dB(A)
06:00 - 07:00	64.7	70.7	64.4	dB(A)
07:00 - 08:00	64.5	67.0	64.3	dB(A)
08:00 - 09:00	64.7	75.8	64.3	dB(A)
09:00 - 10:00	65.0	73.5	64.6	dB(A)
10:00 - 11:00	65.0	75.8	64.5	dB(A)
L_{eq} 24 hr.	64.7	-	-	dB(A)
L_{dn}	71.0	-	-	dB(A)
Maximum	-	75.8	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankham)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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ACCREDITED LABORATORY ISO/IEC 17025

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0786

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	:	71-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150		
SAMPLE SOURCE	:	GC17 Polystyrene Plant		
SAMPLE POINT	:	บริเวณริมรั้วด้านทิศตะวันตก		
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	: 27643
DETERMINATION METHOD	:	ISO 1996-1:2016	MEASURING DATE	: 29-30/08/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	: 04/09/2023
		S/N 00230993 : Class 1	REPORTED DATE	: 11/09/2023

TIME \ DATE	29-30/08/2023 (L_{eq})	29-30/08/2023 (L_{max})	29-30/08/2023 (L_{90})	UNIT
11:00 - 12:00 /3	64.7	70.2	64.3	dB(A)
12:00 - 13:00	64.6	69.1	64.2	dB(A)
13:00 - 14:00	64.9	72.6	64.5	dB(A)
14:00 - 15:00	64.9	73.6	64.5	dB(A)
15:00 - 16:00	64.8	76.5	64.4	dB(A)
16:00 - 17:00	64.9	71.1	64.5	dB(A)
17:00 - 18:00	65.3	68.2	65.0	dB(A)
18:00 - 19:00	65.3	69.1	65.1	dB(A)
19:00 - 20:00	65.1	66.4	64.9	dB(A)
20:00 - 21:00	65.0	67.7	64.7	dB(A)
21:00 - 22:00	65.1	67.3	64.8	dB(A)
22:00 - 23:00	65.1	67.5	64.9	dB(A)
23:00 - 00:00	65.0	72.3	64.7	dB(A)
00:00 - 01:00	65.0	66.0	64.8	dB(A)
01:00 - 02:00	65.0	66.2	64.8	dB(A)
02:00 - 03:00	65.0	69.7	64.8	dB(A)
03:00 - 04:00	65.0	68.7	64.8	dB(A)
04:00 - 05:00	65.0	68.7	64.7	dB(A)
05:00 - 06:00	65.1	66.3	64.8	dB(A)
06:00 - 07:00	65.1	67.2	64.8	dB(A)
07:00 - 08:00	65.0	71.3	64.7	dB(A)
08:00 - 09:00	65.0	68.2	64.7	dB(A)
09:00 - 10:00	65.3	71.0	65.0	dB(A)
10:00 - 11:00	65.3	72.7	65.0	dB(A)
L_{eq} 24 hr.	65.0	-	-	dB(A)
L_{dn}	71.4	-	-	dB(A)
Maximum	-	76.5	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photanklium)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
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11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0787

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณริมรั้วด้านทิศตะวันตก			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27644
DETERMINATION METHOD	:	ISO 1996-1:2016	MEASURING DATE	:	30-31/08/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
		S/N 00230993 ; Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	30-31/08/2023 (L_{eq})	30-31/08/2023 (L_{max})	30-31/08/2023 (L_{90})	UNIT
11:00 - 12:00 /3	65.3	78.0	64.9	dB(A)
12:00 - 13:00	65.1	72.2	64.7	dB(A)
13:00 - 14:00	65.4	72.0	65.0	dB(A)
14:00 - 15:00	65.5	75.1	65.1	dB(A)
15:00 - 16:00	65.3	71.9	65.0	dB(A)
16:00 - 17:00	65.4	78.7	65.0	dB(A)
17:00 - 18:00	65.3	71.0	65.0	dB(A)
18:00 - 19:00	65.3	71.1	64.9	dB(A)
19:00 - 20:00	65.1	67.6	64.8	dB(A)
20:00 - 21:00	65.4	72.8	65.1	dB(A)
21:00 - 22:00	65.3	67.5	65.0	dB(A)
22:00 - 23:00	65.3	70.3	65.0	dB(A)
23:00 - 00:00	65.2	66.4	64.9	dB(A)
00:00 - 01:00	65.2	67.6	64.9	dB(A)
01:00 - 02:00	65.0	66.6	64.7	dB(A)
02:00 - 03:00	65.1	66.3	64.8	dB(A)
03:00 - 04:00	65.0	66.1	64.7	dB(A)
04:00 - 05:00	65.0	66.5	64.8	dB(A)
05:00 - 06:00	65.0	67.1	64.7	dB(A)
06:00 - 07:00	65.1	69.3	64.8	dB(A)
07:00 - 08:00	65.0	67.2	64.7	dB(A)
08:00 - 09:00	65.0	69.1	64.7	dB(A)
09:00 - 10:00	65.1	68.6	64.8	dB(A)
10:00 - 11:00	65.2	67.9	64.9	dB(A)
L_{eq} 24 hr.	65.2	-	-	dB(A)
L_{dn}	71.5	-	-	dB(A)
Maximum	-	78.7	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK : /1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Pholankhum)

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0788

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศตะวันตก			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27645
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	31/08/2023-01/09/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
	S/N 00230993 : Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	31/08/2023-01/09/2023 (L_{eq})	31/08/2023-01/09/2023 (L_{max})	31/08/2023-01/09/2023 (L_{90})	UNIT
11:00 - 12:00 /3	65.1	70.2	64.8	dB(A)
12:00 - 13:00	65.1	68.0	64.8	dB(A)
13:00 - 14:00	65.1	72.2	64.8	dB(A)
14:00 - 15:00	66.2	72.2	65.8	dB(A)
15:00 - 16:00	66.3	68.0	66.0	dB(A)
16:00 - 17:00	66.3	68.7	66.0	dB(A)
17:00 - 18:00	66.4	70.8	66.0	dB(A)
18:00 - 19:00	66.4	67.8	66.1	dB(A)
19:00 - 20:00	66.2	67.9	65.9	dB(A)
20:00 - 21:00	66.3	67.6	66.0	dB(A)
21:00 - 22:00	66.3	69.8	66.0	dB(A)
22:00 - 23:00	66.4	69.0	66.1	dB(A)
23:00 - 00:00	66.2	70.5	66.0	dB(A)
00:00 - 01:00	66.1	67.6	65.9	dB(A)
01:00 - 02:00	66.1	69.4	65.8	dB(A)
02:00 - 03:00	66.0	69.4	65.8	dB(A)
03:00 - 04:00	66.1	68.1	65.8	dB(A)
04:00 - 05:00	66.1	67.6	65.8	dB(A)
05:00 - 06:00	66.1	67.5	65.8	dB(A)
06:00 - 07:00	66.1	69.8	65.8	dB(A)
07:00 - 08:00	66.0	72.4	65.8	dB(A)
08:00 - 09:00	66.1	75.6	65.8	dB(A)
09:00 - 10:00	66.3	70.2	66.0	dB(A)
10:00 - 11:00	66.3	72.2	66.0	dB(A)
L_{eq} 24 hr.	66.1	-	-	dB(A)
L_{dn}	72.5	-	-	dB(A)
Maximum	-	75.6	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

Approved By.....
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11/09/2023

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Request No. LA66-R0928

Report No. R6609-0789

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณริมรั้วด้านทิศตะวันตก			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27646
DETERMINATION METHOD	:	ISO 1996-1:2016	MEASURING DATE	:	01-02/09/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
		S/N 00230993 : Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	01-02/09/2023 (L_{eq})	01-02/09/2023 (L_{max})	01-02/09/2023 (L_{90})	UNIT
11:00 - 12:00 [3]	66.2	73.9	65.9	dB(A)
12:00 - 13:00	66.2	73.0	65.9	dB(A)
13:00 - 14:00	66.3	70.4	66.0	dB(A)
14:00 - 15:00	66.3	73.7	66.0	dB(A)
15:00 - 16:00	66.2	73.8	65.9	dB(A)
16:00 - 17:00	66.2	73.6	65.9	dB(A)
17:00 - 18:00	66.2	68.3	65.9	dB(A)
18:00 - 19:00	66.2	69.8	65.9	dB(A)
19:00 - 20:00	66.2	68.3	65.9	dB(A)
20:00 - 21:00	66.2	69.3	65.9	dB(A)
21:00 - 22:00	66.2	68.4	66.0	dB(A)
22:00 - 23:00	66.2	67.5	65.9	dB(A)
23:00 - 00:00	66.2	68.1	65.9	dB(A)
00:00 - 01:00	66.2	73.3	65.9	dB(A)
01:00 - 02:00	66.2	67.5	65.9	dB(A)
02:00 - 03:00	66.2	67.9	65.9	dB(A)
03:00 - 04:00	66.2	67.6	65.9	dB(A)
04:00 - 05:00	66.2	68.1	65.9	dB(A)
05:00 - 06:00	66.1	68.3	65.8	dB(A)
06:00 - 07:00	66.1	69.8	65.8	dB(A)
07:00 - 08:00	66.1	70.1	65.9	dB(A)
08:00 - 09:00	66.1	69.9	65.8	dB(A)
09:00 - 10:00	66.2	74.8	65.9	dB(A)
10:00 - 11:00	66.2	73.0	65.8	dB(A)
L_{eq} 24 hr.	66.2	-	-	dB(A)
L_{dn}	72.6	-	-	dB(A)
Maximum	-	74.8	-	dB(A)
Standard	70 [1], 70 [2]	115 [1], 115 [2]	-	dB(A)

REMARK :
[1] Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
[2] Notification of Ministry of the Industry B.E. 2548 (2005)
[3] Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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เว็บไซต์ : http://www.etc1992.com อี-เมล์ : info@etc1992.com

ACCREDITED LABORATORY ISO/IEC 17025

EASTERN THAI CONSULTING 1992 CO., LTD.
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Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0790

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 17
ADDRESS : 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150
SAMPLE SOURCE : GC17 Polystyrene Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก
PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}
DETERMINATION METHOD : ISO 1996-1:2016
INSTRUMENT : Integrated Sound Level Meter
S/N 00230993 : Class 1

SAMPLE NO. : 27647
MEASURING DATE : 02-03/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 11/09/2023

TIME \ DATE	02-03/09/2023 (L_{eq})	02-03/09/2023 (L_{max})	02-03/09/2023 (L_{90})	UNIT
11:00 - 12:00 /3	66.2	73.1	65.9	dB(A)
12:00 - 13:00	66.2	71.3	65.9	dB(A)
13:00 - 14:00	66.3	70.2	66.0	dB(A)
14:00 - 15:00	66.4	78.0	66.1	dB(A)
15:00 - 16:00	66.3	73.1	66.0	dB(A)
16:00 - 17:00	66.2	71.9	65.9	dB(A)
17:00 - 18:00	66.3	78.6	65.9	dB(A)
18:00 - 19:00	66.2	80.0	65.8	dB(A)
19:00 - 20:00	66.1	70.6	65.8	dB(A)
20:00 - 21:00	66.3	70.0	65.9	dB(A)
21:00 - 22:00	66.2	71.5	65.8	dB(A)
22:00 - 23:00	66.2	72.0	65.8	dB(A)
23:00 - 00:00	66.1	69.7	65.8	dB(A)
00:00 - 01:00	66.1	71.5	65.8	dB(A)
01:00 - 02:00	66.1	67.5	65.8	dB(A)
02:00 - 03:00	66.1	68.3	65.8	dB(A)
03:00 - 04:00	66.0	67.5	65.8	dB(A)
04:00 - 05:00	66.0	72.2	65.8	dB(A)
05:00 - 06:00	66.1	67.3	65.8	dB(A)
06:00 - 07:00	66.2	68.4	65.9	dB(A)
07:00 - 08:00	66.2	68.1	65.9	dB(A)
08:00 - 09:00	66.3	75.9	65.9	dB(A)
09:00 - 10:00	66.5	74.7	66.1	dB(A)
10:00 - 11:00	66.6	68.0	66.2	dB(A)
L_{eq} 24 hr.	66.2	-	-	dB(A)
L_{dn}	72.5	-	-	dB(A)
Maximum	-	80.0	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
/3 Start Time
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankhum)

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0928
Report No. R6609-0791

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	: 7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	: GC17 Polystyrene Plant			
SAMPLE POINT	: บริเวณริมรั้วด้านทิศตะวันตก			
PARAMETER*	: L_{eq} 1 hr., L_{eq} 24 hr., L_{max}, L_{90} & L_{dn}	SAMPLE NO.	:	27648
DETERMINATION METHOD	: ISO 1996-1:2016	MEASURING DATE	:	03-04/09/2023
INSTRUMENT	: Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
	S/N 00230993 : Class 1	REPORTED DATE	:	11/09/2023

TIME \ DATE	03-04/09/2023 (L_{eq})	03-04/09/2023 (L_{max})	03-04/09/2023 (L_{90})	UNIT
11:00 - 12:00 /3	66.6	73.1	66.2	dB(A)
12:00 - 13:00	66.5	68.8	66.1	dB(A)
13:00 - 14:00	66.6	79.4	66.2	dB(A)
14:00 - 15:00	66.6	73.2	66.2	dB(A)
15:00 - 16:00	66.4	68.0	66.0	dB(A)
16:00 - 17:00	66.4	68.7	66.0	dB(A)
17:00 - 18:00	66.5	77.3	66.1	dB(A)
18:00 - 19:00	66.4	79.0	66.0	dB(A)
19:00 - 20:00	66.4	71.4	66.0	dB(A)
20:00 - 21:00	66.4	68.4	66.1	dB(A)
21:00 - 22:00	66.4	69.1	66.0	dB(A)
22:00 - 23:00	66.4	70.4	66.1	dB(A)
23:00 - 00:00	66.4	68.3	66.1	dB(A)
00:00 - 01:00	66.3	67.7	66.0	dB(A)
01:00 - 02:00	66.2	70.5	65.9	dB(A)
02:00 - 03:00	66.1	67.3	65.8	dB(A)
03:00 - 04:00	66.1	67.4	65.9	dB(A)
04:00 - 05:00	66.1	67.3	65.8	dB(A)
05:00 - 06:00	66.1	70.2	65.8	dB(A)
06:00 - 07:00	66.2	80.9	65.9	dB(A)
07:00 - 08:00	66.1	67.8	65.8	dB(A)
08:00 - 09:00	66.3	67.9	65.9	dB(A)
09:00 - 10:00	66.2	68.7	65.9	dB(A)
10:00 - 11:00	65.8	67.9	65.5	dB(A)
L_{eq} 24 hr.	66.3	-	-	dB(A)
L_{dn}	72.6	-	-	dB(A)
Maximum	-	80.9	-	dB(A)
Standard	70 /1, 70 /2	115 /1, 115 /2	-	dB(A)

REMARK :
/1 Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)
/2 Notification of Ministry of the Industry B.E. 2548 (2005)
* Parameter Outside The Scope of The Registration of The Department of Industrial Works (Measurement By Mr. Tummarut Photankham)
/3 Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(MRS. WANPEN LHAOCHINDAWAT)
11/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No : W6609285

Report No. 6610-0068

TEST REPORT

Customer	:	PTT Global Chemical Public Company Limited Branch 17			
Address	:	7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150			
Sampling Source	:	GC17 Polystyrene Plant	Sample No.	:	W 66091117
Sample Name	:	MW 05 (เหนือน้ำ) (น้ำใต้ดิน)	Sampling Date	:	11/09/2023
Sampling By	:	ETC	Sampling Time	:	9:30 AM
Sampling Method	:	Grab	Received Date	:	12/09/2023
Tested Date	:	12/09/2023 – 30/09/2023	Reported Date	:	04/10/2023

Parameter	Unit	Method	Result	Standard /1
Ethylbenzene	mg/L	Purge and Trap Capillary-Column / GC – MS (SM:6200B)	< 0.00050	≤ 2
Styrene monomer	mg/L	Purge and Trap Capillary-Column / GC – MS (SM:6200B)	< 0.00100	≤ 24

Physical Apperance : 1. Sample : Orange, turbid

2. Container : Normal [PE 2.0 L]

Remark :
1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
3. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ค-0036)

Examined By.....
(Miss Apiradee Chuen-arom)
(ว-003-ค-0007)
04/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....
(Miss Nunnaphat Bakhuntod)
(ว-003-ค-0005)
04/10/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No : W6609285

Report No. 6610-0069

TEST REPORT

Customer	:	PTT Global Chemical Public Company Limited Branch 17			
Address	:	7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150			
Sampling Source	:	GC17 Polystyrene Plant	Sample No.	:	W 66091118
Sample Name	:	MW 02 (ท้ายน้ำ) (น้ำใต้ดิน)	Sampling Date	:	11/09/2023
Sampling By	:	ETC	Sampling Time	:	10:05 AM
Sampling Method	:	Grab	Received Date	:	12/09/2023
Tested Date	:	12/09/2023 – 30/09/2023	Reported Date	:	04/10/2023

Parameter	Unit	Method	Result	Standard /1
Ethylbenzene	mg/L	Purge and Trap Capillary-Column / GC – MS (SM:6200B)	< 0.00050	≤ 2
Styrene	mg/L	Purge and Trap Capillary-Column / GC – MS (SM:6200B)	< 0.00100	≤ 24

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 2.0 L]

Remark :

1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
3. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ค-0036)

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

04/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-0005)

04/10/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No : W6609285

Report No. 6610-0070

TEST REPORT

Customer	:	PTT Global Chemical Public Company Limited Branch 17			
Address	:	7 I-1 Rd., Map Ta Phut Industrial Estate Map Ta Phut Rayong 21150			
Sampling Source	:	GC17 Polystyrene Plant	Sample No.	:	W 66091119
Sample Name	:	MW 03 (ท้ายน้ำ) (น้ำใต้ดิน)	Sampling Date	:	11/09/2023
Sampling By	:	ETC	Sampling Time	:	9:50 AM
Sampling Method	:	Grab	Received Date	:	12/09/2023
Tested Date	:	12/09/2023 – 30/09/2023	Reported Date	:	04/10/2023

Parameter	Unit	Method	Result	Standard /1
Ethylbenzene	mg/L	Purge and Trap Capillary-Column / GC – MS (SM:6200B)	< 0.00050	≤ 2
Styrene monomer	mg/L	Purge and Trap Capillary-Column / GC – MS (SM:6200B)	< 0.00100	≤ 24

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [PE 2.0 L]

Remark :

1. /1 Soil and Groundwater Contamination Standard, Notification of the Ministry of Industry , B.E. 2559 (2016)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.
3. Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ค-0036)

Examined By.....

(Miss Apiradee Chuen-arom)

(ว-003-ค-0007)

04/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(Miss Nunnaphat Bakhuntod)

(ว-003-ค-0005)

04/10/2023

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การตรวจสอบระดับน้ำและทิศทางการไหลของน้ำใต้ดิน

รายงานผลการสำรวจระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดิน วันที่ 11 กันยายน พ.ศ.2566

ชื่อโครงการ	โรงโพลีสไตรีน
ที่ตั้งโครงการ	เลขที่ 7 ถนนไอหนึ่ง นิคมอุตสาหกรรมมาบตาพุด อำเภอเมืองระยอง จังหวัดระยอง
ชื่อเจ้าของโครงการ	บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17
สถานที่ติดต่อ	เลขที่ 555/1 ศูนย์เอนเนอร์ยี่คอมเพล็กซ์ อาคารเอ ชั้น 15 ถนนวิภาวดีรังสิต แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร โทรศัพท์ 02-265-8400

จัดทำโดย
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เลขที่ 239 ถนนริมคลองประปา แขวงบางซื่อ เขตบางซื่อ กรุงเทพมหานคร 10800
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1. ชื่อโครงการ	โรงโพลีสไตรีน
2. ที่ตั้งโครงการ	เลขที่ 7 ถนนไอหนึ่ง นิคมอุตสาหกรรมมาบตาพุด อำเภอเมืองระยอง จังหวัดระยอง
3. ชื่อเจ้าของโครงการ	บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17
4. สถานที่ติดต่อ	เลขที่ 555/1 ศูนย์เอนเนอร์ยี่คอมเพล็กซ์ อาคารเอ ชั้น 15 ถนนวิภาวดีรังสิต แขวงจตุจักร เขตจตุจักร กรุงเทพมหานคร โทรศัพท์ : 02-265-8400
5. จัดทำโดย	บริษัท ซีคอท จำกัด

บริษัท ซีคอท จำกัด
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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

หนังสือรับรองการจัดทำรายงานผลการสำรวจระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดิน โรงโพลีสไตรีน บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17

วันที่ 1 พฤศจิกายน พ.ศ.2566

หนังสือฉบับนี้ขอรับรองว่า บริษัท ซีคอท จำกัด เป็นผู้จัดทำรายงานผลการสำรวจระดับน้ำภายในบ่อสังเกตการณ์และทิศทางการไหลของน้ำใต้ดิน โรงโพลีสไตรีน ตั้งอยู่ที่เลขที่ 7 ถนนไอหนึ่ง นิคมอุตสาหกรรมมาบตาพุด อำเภอเมืองระยอง จังหวัดระยอง ของบริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17

โดยมีคณะผู้จัดทำรายงาน ดังต่อไปนี้

นายศักดา	จันเดชชนะวงศ์
นางสาวลดาวัลย์	วงศ์เจริญ
นางสาวศศิธร	พรหมประเสริฐ

.....

(นายขรรชัย เกรียงไกรอุดม)

กรรมการผู้จัดการ

รายงานผลการสำรวจระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดิน โรงโพลีสไตรีน บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17

บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17 ได้มอบหมายให้บริษัท ซีคอท จำกัด ดำเนินการตรวจวัดระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดิน ในวันที่ 11 กันยายน พ.ศ.2566 ของโรงโพลิสไตรีน ซึ่งมีรายละเอียดดังต่อไปนี้

1. วัตถุประสงค์

เพื่อตรวจวัดค่าระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดิน โรงโพลีสไตรีน บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17

2. ขอบเขตของการตรวจวัด

ดำเนินการตรวจวัดค่าระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดิน โรงโพลีสไตรีน บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17 จำนวน 5 บริเวณ ได้แก่ บ่อสังเกตการณ์ที่ 1 (MW-01) บ่อสังเกตการณ์ที่ 2 (MW-02) บ่อสังเกตการณ์ที่ 3 (MW-03) บ่อสังเกตการณ์ที่ 4 (MW-04) และบ่อสังเกตการณ์ที่ 5 (MW-05) (ตำแหน่งการตรวจวัด ดังแสดงในรูปที่ 1)

3. วิธีการตรวจวัดและวิเคราะห์

ดำเนินการตรวจวัดระดับน้ำใต้ดินโดยหย่อนหัววัด (Water Level Meter) ลงไปในบ่อสังเกตการณ์ ซึ่งบริเวณหัววัดจะมีอุปกรณ์ตรวจจับสัญญาณ (Sensor) เมื่อสัมผัสกับน้ำในบ่อสังเกตการณ์จะส่งสัญญาณเสียงให้ทราบ และอ่านค่าได้จากความลึกของสายที่หย่อนลงไปในบ่อเทียบกับระดับปากท่อ

จากนั้นนำค่าระดับน้ำใต้ดินที่ได้ของแต่ละบ่อมาคำนวณอ้างอิงที่ระดับน้ำทะเลปานกลาง (MSL) ที่ได้ทำการถ่ายระดับมาไว้ที่ปากบ่อสังเกตการณ์ และนำมาพลอตลงในแผนที่ตามตำแหน่งที่ตรวจวัด และนำมาสร้างเส้นชั้นความสูงของน้ำใต้ดิน ด้วยโปรแกรม Surfer เพื่อทำให้ทราบทิศทางการไหลของน้ำใต้ดิน



รูปที่ 1 **ตำแหน่งการสำรวจระดับน้ำใต้ดิน และทิศทางการไหลของน้ำใต้ดิน**
โรงโพลีสไตรีน
บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17

4. ผลการตรวจวัด

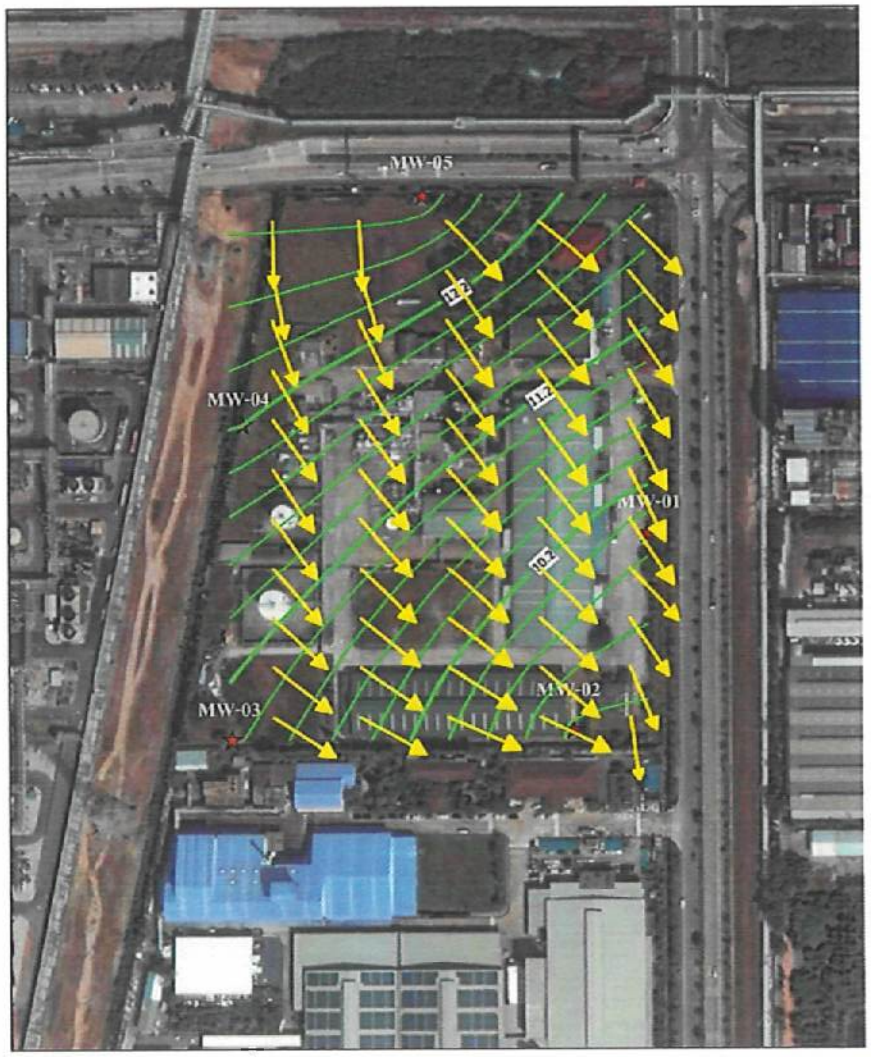
ผลการตรวจวัดค่าระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดิน ภายในพื้นที่ของโรงโพลีสไตรีน บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17 ซึ่งดำเนินการตรวจวัดโดย บริษัท ซีคอท จำกัด ในวันที่ 11 กันยายน พ.ศ.2566 จำนวน 5 บริเวณ ได้แก่ บ่อสังเกตการณ์ที่ 1 (MW-01) บ่อสังเกตการณ์ที่ 2 (MW-02) บ่อสังเกตการณ์ที่ 3 (MW-03) บ่อสังเกตการณ์ที่ 4 (MW-04) และบ่อสังเกตการณ์ที่ 5 (MW-05)โดยมีค่าระดับน้ำภายในบ่อสังเกตการณ์ ดังแสดงในตารางที่ 1 ค่าระดับน้ำใต้ดินเทียบกับระดับ MSL มีค่าระหว่าง 9.37-12.93 เมตร และทิศทางการไหลของน้ำใต้ดิน ดังแสดงในรูปที่ 2

ตารางที่ 1 ผลการสำรวจค่าระดับน้ำภายในบ่อสังเกตการณ์

สถานีตรวจวัด	พิกัด	Zone	ระดับน้ำใต้ดิน (เมตร)		
			ความสูงของปากบ่อจากระดับน้ำทะเลปานกลาง (Elevation)	ระยะปากบ่อถึงระดับน้ำใต้ดิน (Water Level)	ค่าระดับน้ำใต้ดินเทียบกับระดับ MSL
บ่อสังเกตการณ์ที่ 1 (MW-01)	731636E, 1403623N	47P	10.83	0.96	9.87
บ่อสังเกตการณ์ที่ 2 (MW-02)	731597E, 1403519N	47P	11.86	2.49	9.37
บ่อสังเกตการณ์ที่ 3 (MW-03)	731419E, 1403514N	47P	12.06	1.00	11.06
บ่อสังเกตการณ์ที่ 4 (MW-04)	731425E, 1403680N	47P	13.68	1.47	12.21
บ่อสังเกตการณ์ที่ 5 (MW-05)	731521E, 1403801N	47P	14.38	1.45	12.93

หมายเหตุ : MSL หมายถึง Mean Sea Level ค่าระดับน้ำทะเลปานกลาง

ชื่อผู้ตรวจวัด	: นายนิติพงศ์ จิ้มลิ้ม
ชื่อผู้บันทึก	: นายนิติพงศ์ จิ้มลิ้ม
ชื่อผู้ตรวจสอบ/ควบคุม	: นางสาวปรีดา สมใจ
ชื่อบริษัทผู้ตรวจวัดและวิเคราะห์ตัวอย่าง	: บริษัท ซีคอท จำกัด
ชื่อผู้วิเคราะห์	: นางสาวเกศรินทร์ วรเดชวิทยา
เลขที่ทะเบียนผู้วิเคราะห์	: -
เบอร์โทรศัพท์	: 02-959-3600



สัญลักษณ์
- ทิศทางการไหลของน้ำใต้ดิน
- บ่อสังเกตการณ์น้ำใต้ดิน

ทิศทางการไหลของน้ำใต้ดินไหลจากทิศตะวันตกเฉียงเหนือไปทางทิศตะวันออกเฉียงใต้

รูปที่ 2 **ทิศทางการไหลของน้ำใต้ดิน เมื่อวันที่ 11 กันยายน พ.ศ.2566**

บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17

5. สรุปผลการตรวจวัด

จากการตรวจวัดค่าระดับน้ำภายในบ่อสังเกตการณ์ และทิศทางการไหลของน้ำใต้ดินภายในพื้นที่ของโรงโพลีสไตรีน บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17 ในวันที่ 11 กันยายน พ.ศ.2566 จำนวน 5 บริเวณ ได้แก่ บ่อสังเกตการณ์ที่ 1 (MW-01) บ่อสังเกตการณ์ที่ 2 (MW-02) บ่อสังเกตการณ์ที่ 3 (MW-03) บ่อสังเกตการณ์ที่ 4 (MW-04) และบ่อสังเกตการณ์ที่ 5 (MW-05) พบว่ามีค่าระดับน้ำใต้ดิน เทียบกับระดับ MSL อยู่ระหว่าง 9.37-12.93 เมตร และทิศทางการไหลของน้ำใต้ดินไหลจากทิศตะวันตกเฉียงเหนือไปทางทิศตะวันออกเฉียงใต้

ภาคผนวก

ภาพถ่ายการตรวจวัด





บริเวณบ่อสังเกตการณ์ที่ 1 (MW-01)





บริเวณบ่อสังเกตการณ์ที่ 2 (MW-02)





บริเวณบ่อสังเกตการณ์ที่ 3 (MW-03)

ภาพถ่ายการสำรวจระดับน้ำใต้ดิน และทิศทางการไหลของน้ำใต้ดิน
บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17





บริเวณบ่อสังเกตการณ์ที่ 4 (MW-04)





บริเวณบ่อสังเกตการณ์ที่ 5 (MW-05)

ภาพถ่ายการสำรวจระดับน้ำใต้ดิน และทิศทางการไหลของน้ำใต้ดิน (ต่อ)
บริษัท พีทีที โกลบอล เคมิคอล จำกัด (มหาชน) สาขา 17

ผลการทดสอบคุณภาพอากาศในบริเวณการทำงาน

บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด
683 หมู่ 11 ถ.สุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
เว็บไซต์ : http://www.etc1992.com อี-เมล์ : info@etc1992.com

ACCREDITED LABORATORY ISO/IEC 17025

EASTERN THAI CONSULTING 1992 CO., LTD.
683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6609004

Report No. 6609-0009

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: ปริเวณ Pelletizer 1		
SAMPLING DATE	: 31/08/2023	SAMPLE NO.	: A66090009
RECEIVED DATE	: 01/09/2023	SAMPLING TIME	: 09:39-11:39
SAMPLING INSTRUMENT	: Personal Pump Flow rate 2.00 L/min Serial No. 20200403062	TESTED DATE REPORTED DATE	: 01/09/2023-02/09/2023 : 05/09/2023

PARAMETER*	TEST METHOD	RESULT	STD /1	STD /2	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m^3

REMARK:

/1 Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

/2 American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter not have License Registeration of Department of Labour Protection and Welfare.

(Sampling By Mr. Suttha Songthaninai)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

05/09/2023

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โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
เว็บไซต์ : http://www.etc1992.com อี-เมล์ : info@etc1992.com

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Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6612016

Report No. 6612-0443

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Pelletizer 1		
SAMPLING DATE	: 08/12/2023	SAMPLE NO.	: A66120443
RECEIVED DATE	: 11/12/2023	SAMPLING TIME	: 09:00-11:00
SAMPLING INSTRUMENT	: Personal Pump Flow rate 1.00 L/min Serial No. 20200403071	TESTED DATE REPORTED DATE	: 11/12/2023-13/12/2023 : 21/12/2023

PARAMETER*	TEST METHOD	RESULT	STD[1]	STD[2]	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	0.9	15	10	mg/m^3

REMARK:

[1] Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

[2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter not have License Registeration of Department of Labour Protection and Welfare.

(Sampling By Mr. Aocha Khwansirimongkon)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

21/12/2023

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683 หมู่ 11 ถ.สุขาภิบาล 8 ต.หนองขาม อ.ศรีราชา จ.ชลบุรี 20230
โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
เว็บไซต์ : http://www.etc1992.com อี-เมล์ : info@etc1992.com

ACCREDITED LABORATORY ISO/IEC 17025

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683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6609004

Report No. 6609-0010

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Pelletizer 1		
SAMPLING DATE	: 31/08/2023	SAMPLE NO.	: A66090010
RECEIVED DATE	: 01/09/2023	SAMPLING TIME	: 09:39-11:39
SAMPLING INSTRUMENT	: Personal Pump Flow rate 0.10 L/min Serial No. 218391	TESTED DATE REPORTED DATE	: 01/09/2023-05/09/2023 : 05/09/2023

PARAMETER*	TEST METHOD	RESULT	STD[/1]	STD[/2]	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m^3
		< 0.89	100	10	ppm

REMARK:

[/1] Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

[/2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter have License Registeration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By .....
(Miss Thanatporn Klinsopon)
05/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....
(Mr. Kawee Suthasub)
05/09/2023

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ACCREDITED LABORATORY ISO/IEC 17025

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Tel. 0-3848-1197, 0-3876-3031-2 Fax : 0-3848-2095
Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6612016

Report No. 6612-0444

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Pelletizer 1		
SAMPLING DATE	: 08/12/2023	SAMPLE NO.	: A66120444
RECEIVED DATE	: 11/12/2023	SAMPLING TIME	: 09:00-11:00
SAMPLING INSTRUMENT	: Personal Pump Flow rate 0.10 L/min Serial No. 218383	TESTED DATE REPORTED DATE	: 11/12/2023-14/12/2023 : 21/12/2023

PARAMETER*	TEST METHOD	RESULT	STD[1]	STD[2]	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m^3
		< 0.89	100	10	ppm

REMARK:

[1] Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

[2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter have License Registeration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Aocha Khwansirimongkon)

Examined By .....
(Miss Thanatporn Klinsopon)
21/12/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....
(Mr. Kawee Suthasub)
21/12/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6609004

Report No. 6609-0011

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Pelletizer 1		
SAMPLING DATE	: 31/08/2023	SAMPLE NO.	: A66090011
RECEIVED DATE	: 01/09/2023	SAMPLING TIME	: 09:39-11:39
SAMPLING INSTRUMENT	: Personal Pump Flow rate 0.10 L/min Serial No. 218385	TESTED DATE REPORTED DATE	: 01/09/2023-05/09/2023 : 05/09/2023

PARAMETER*	TEST METHOD	RESULT	STD[/1]	STD[/2]	UNIT
Ethylbenzene	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.63	435	87	mg/m^3
		< 0.83	100	20	ppm

REMARK:

[/1] Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

[/2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter have License Registeration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By .....
(Miss Thanatporn Klinsopon)
05/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....
(Mr. Kawee Suthasub)
05/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6612016

Report No. 6612-0445

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Pelletizer 1		
SAMPLING DATE	: 08/12/2023	SAMPLE NO.	: A66120445
RECEIVED DATE	: 11/12/2023	SAMPLING TIME	: 09:00-11:00
SAMPLING INSTRUMENT	: Personal Pump Flow rate 0.10 L/min	TESTED DATE	: 11/12/2023-14/12/2023
	Serial No. 218383	REPORTED DATE	: 21/12/2023

PARAMETER*	TEST METHOD	RESULT	STD[/1]	STD[/2]	UNIT
Ethylbenzene	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.63	435	87	mg/m^3
		< 0.83	100	20	ppm

REMARK:

[/1] Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

[/2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter have License Registeration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Aocha Khwansirimongkon)

Examined By .....
(Miss Thanatporn Klinsopon)
21/12/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....
(Mr. Kawee Suthasub)
21/12/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6609004

Report No. 6609-0012

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Pelletizer 2		
SAMPLING DATE	: 31/08/2023	SAMPLE NO.	: A66090012
RECEIVED DATE	: 01/09/2023	SAMPLING TIME	: 09:27-11:27
SAMPLING INSTRUMENT	: Personal Pump Flow rate 2.00 L/min	TESTED DATE	: 01/09/2023-02/09/2023
	Serial No. 20200403072	REPORTED DATE	: 05/09/2023

PARAMETER*	TEST METHOD	RESULT	STD[1]	STD[2]	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m^3

REMARK:

[1] Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

[2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter not have License Registeration of Department of Labour Protection and Welfare.

(Sampling By Mr. Suttha Songthaninai)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

05/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6612016

Report No. 6612-0446

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Pelletizer 2		
SAMPLING DATE	: 08/12/2023	SAMPLE NO.	: A66120446
RECEIVED DATE	: 11/12/2023	SAMPLING TIME	: 09:10-11:10
SAMPLING INSTRUMENT	: Personal Pump Flow rate 1.00 L/min Serial No. 20200403065	TESTED DATE REPORTED DATE	: 11/12/2023-13/12/2023 : 21/12/2023

PARAMETER*	TEST METHOD	RESULT	STD[1]	STD[2]	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	1.2	15	10	mg/m^3

REMARK:

[1] Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

[2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter not have License Registeration of Department of Labour Protection and Welfare.

(Sampling By Mr. Aocha Khwansirimongkon)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

21/12/2023

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Request No. ATR6609004

Report No. 6609-0013

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Pelletizer 2		
SAMPLING DATE	: 31/08/2023	SAMPLE NO.	: A66090013
RECEIVED DATE	: 01/09/2023	SAMPLING TIME	: 09:27-11:27
SAMPLING INSTRUMENT	: Personal Pump Flow rate 0.10 L/min Serial No. 218383	TESTED DATE REPORTED DATE	: 01/09/2023-05/09/2023 : 05/09/2023

PARAMETER*	TEST METHOD	RESULT	STD/1	STD/2	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m^3
		< 0.89	100	10	ppm

REMARK:

/1 Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

/2 American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter have License Registeration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By .....
(Miss Thanatporn Klinsopon)
05/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....
(Mr. Kawee Suthasub)
05/09/2023

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Request No. ATR6612016

Report No. 6612-0447

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Pelletizer 2		
SAMPLING DATE	: 08/12/2023	SAMPLE NO.	: A66120447
RECEIVED DATE	: 11/12/2023	SAMPLING TIME	: 09:10-11:10
SAMPLING INSTRUMENT	: Personal Pump Flow rate 0.10 L/min Serial No. 218445	TESTED DATE REPORTED DATE	: 11/12/2023-14/12/2023 : 21/12/2023

PARAMETER*	TEST METHOD	RESULT	STD[1]	STD[2]	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m^3
		< 0.89	100	10	ppm

REMARK:

[1] Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

[2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter have License Registeration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Aocha Khwansirimongkon)

Examined By .....
(Miss Thanatporn Klinsopon)
21/12/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....
(Mr. Kawee Suthasub)
21/12/2023

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Request No. ATR6609004

Report No. 6609-0014

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Zn Loading at Plant 1		
SAMPLING DATE	: 31/08/2023	SAMPLE NO.	: A66090014
RECEIVED DATE	: 01/09/2023	SAMPLING TIME	: 11:00-13:00
SAMPLING INSTRUMENT	: Personal Pump Flow rate 2.00 L/min	TESTED DATE	: 01/09/2023-02/09/2023
	Serial No. 20211102097	REPORTED DATE	: 05/09/2023

PARAMETER*	TEST METHOD	RESULT	STD[/1]	STD[/2]	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m^3

REMARK:

[/1] Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

[/2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter not have License Registeration of Department of Labour Protection and Welfare.

(Sampling By Mr. Suttha Songthaninai)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

05/09/2023

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Request No. ATR6612016

Report No. 6612-0448

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Zn Loading at Plant 1		
SAMPLING DATE	: 08/12/2023	SAMPLE NO.	: A66120448
RECEIVED DATE	: 11/12/2023	SAMPLING TIME	: 12:10-14:10
SAMPLING INSTRUMENT	: Personal Pump Flow rate 1.00 L/min Serial No. 20200403064	TESTED DATE REPORTED DATE	: 11/12/2023-13/12/2023 : 21/12/2023

PARAMETER*	TEST METHOD	RESULT	STD[/1]	STD[/2]	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m^3

REMARK:

[/1] Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

[/2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter not have License Registeration of Department of Labour Protection and Welfare.

(Sampling By Mr. Aocha Khwansirimongkon)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

21/12/2023

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Request No. ATR6609004

Report No. 6609-0015

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Zn Loading at Plant 2		
SAMPLING DATE	: 31/08/2023	SAMPLE NO.	: A66090015
RECEIVED DATE	: 01/09/2023	SAMPLING TIME	: 11:03-13:03
SAMPLING INSTRUMENT	: Personal Pump Flow rate 2.00 L/min	TESTED DATE	: 01/09/2023-02/09/2023
	Serial No. 20200403063	REPORTED DATE	: 05/09/2023

PARAMETER*	TEST METHOD	RESULT	STD /1	STD /2	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m^3

REMARK:

/1 Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

/2 American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter not have License Registeration of Department of Labour Protection and Welfare.

(Sampling By Mr. Suttha Songthaninai)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

05/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6612016

Report No. 6612-0449

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Zn Loading at Plant 2		
SAMPLING DATE	: 08/12/2023	SAMPLE NO.	: A66120449
RECEIVED DATE	: 11/12/2023	SAMPLING TIME	: 12:10-14:10
SAMPLING INSTRUMENT	: Personal Pump Flow rate 1.00 L/min	TESTED DATE	: 11/12/2023-13/12/2023
	Serial No. 20211102103	REPORTED DATE	: 21/12/2023

PARAMETER*	TEST METHOD	RESULT	STD[1]	STD[2]	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	1.5	15	10	mg/m^3

REMARK:

[1] Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

[2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter not have License Registeration of Department of Labour Protection and Welfare.

(Sampling By Mr. Aocha Khwansirimongkon)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

21/12/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6609004

Report No. 6609-0016

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Bagging Unit		
SAMPLING DATE	: 31/08/2023	SAMPLE NO.	: A66090016
RECEIVED DATE	: 01/09/2023	SAMPLING TIME	: 09:22-11:22
SAMPLING INSTRUMENT	: Personal Pump Flow rate 2.00 L/min	TESTED DATE	: 01/09/2023-02/09/2023
	Serial No. 20200403074	REPORTED DATE	: 05/09/2023

PARAMETER*	TEST METHOD	RESULT	STD/1	STD/2	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	< 0.8	15	10	mg/m^3

REMARK:

/1 Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

/2 American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter not have License Registeration of Department of Labour Protection and Welfare.

(Sampling By Mr. Suttha Songthaninai)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

05/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6612016

Report No. 6612-0450

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ Bagging Unit		
SAMPLING DATE	: 08/12/2023	SAMPLE NO.	: A66120450
RECEIVED DATE	: 11/12/2023	SAMPLING TIME	: 08:45-10:45
SAMPLING INSTRUMENT	: Personal Pump Flow rate 1.00 L/min Serial No. 20200403074	TESTED DATE REPORTED DATE	: 11/12/2023-13/12/2023 : 21/12/2023

PARAMETER*	TEST METHOD	RESULT	STD[1]	STD[2]	UNIT
Particulates Not Otherwise Regulated (PNOR)					
Total Dust	Gravimetric	0.9	15	10	mg/m^3

REMARK:

[1] Occupational Safety and Health Administration (OSHA) ; Standard Number 1910.1000 Table Z-1 Limits for Air Contaminants.

[2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter not have License Registeration of Department of Labour Protection and Welfare.

(Sampling By Mr. Aocha Khwansirimongkon)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Mr. Kawee Suthasub)

21/12/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6609004

Report No. 6609-0017

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณห้องตัดยาง		
SAMPLING DATE	: 31/08/2023	SAMPLE NO.	: A66090017
RECEIVED DATE	: 01/09/2023	SAMPLING TIME	: 09:34-11:34
SAMPLING INSTRUMENT	: Personal Pump Flow rate 0.10 L/min	TESTED DATE	: 01/09/2023-05/09/2023
	Serial No. 218403	REPORTED DATE	: 05/09/2023

PARAMETER*	TEST METHOD	RESULT	STD[1]	STD[2]	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m^3
		< 0.89	100	10	ppm

REMARK:

[1] Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

[2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter have License Registeration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By .....
(Miss Thanatporn Klinsopon)
05/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....
(Mr. Kawee Suthasub)
05/09/2023

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Request No. ATR6612016

Report No. 6612-0451

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณห้องตัดยาง		
SAMPLING DATE	: 08/12/2023	SAMPLE NO.	: A66120451
RECEIVED DATE	: 11/12/2023	SAMPLING TIME	: 09:07-11:07
SAMPLING INSTRUMENT	: Personal Pump Flow rate 0.10 L/min Serial No. 218405	TESTED DATE REPORTED DATE	: 11/12/2023-14/12/2023 : 21/12/2023

PARAMETER*	TEST METHOD	RESULT	STD[1]	STD[2]	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m^3
		< 0.89	100	10	ppm

REMARK:

[1] Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

[2] American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter have License Registeration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Aocha Khwansirimongkon)

Examined By .....
(Miss Thanatporn Klinsopon)
21/12/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....
(Mr. Kawee Suthasub)
21/12/2023

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Request No. ATR6609018

Report No. 6609-0307

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: PTT Global Chemical Public Company Limited Branch 17		
SAMPLE NAME	: บริเวณ SM Truck Loading		
SAMPLING DATE	: 04/09/2023	SAMPLE NO.	: A66090307
RECEIVED DATE	: 08/09/2023	SAMPLING TIME	: 09:30-10:30
SAMPLING INSTRUMENT	: Personal Pump Flow rate 0.10 L/min Serial No. 218403	TESTED DATE REPORTED DATE	: 08/09/2023-19/09/2023 : 21/09/2023

PARAMETER**	TEST METHOD	RESULT	STD /1	STD /2	UNIT
Styrene Monomer	NIOSH 1501	0.27	426	42	mg/m^3
		0.06	100	10	ppm

REMARK:

/1 Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

/2 American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

** Parameter have License Registeration of Department of Labour Protection and Welfare No.0201-03-2564-0008

Sampling By Eastern Thai Consulting 1992 Co.,Ltd. (Mr. Aocha Khwansirimongkhon)

Analysed By SECOT Co.,Ltd.

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Thanatporn Klinsopon)

21/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6611042

Report No. 6611-0590

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC17 Polystyrene Plant		
SAMPLE NAME	: บริเวณ SM Truck Loading		
SAMPLING DATE	: 21/11/2023	SAMPLE NO.	: A66110590
RECEIVED DATE	: 22/11/2023	SAMPLING TIME	: 09:00-10:00
SAMPLING INSTRUMENT	: Personal Pump Flow rate 0.10 L/min	TESTED DATE	: 22/11/2023-01/12/2023
	Serial No. 218412	REPORTED DATE	: 01/12/2023

PARAMETER*	TEST METHOD	RESULT	STD[1]	STD[2]	UNIT
Styrene monomer	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.78	426	42	mg/m^3
		< 0.89	100	10	ppm

REMARK:

[1] Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

[2] American Conference of Government Industrial Hygienists (ACGIH) B.E 2565 (2022)

* Parameter have License Registeration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Witchawan Singto)

Examined By .....
(Miss Thanatporn Klinsopon)
01/12/2023

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Approved By .....
(Mr. Kawee Suthasub)
01/12/2023

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Request No. ATR6610016

Report No. 6610-0279

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC 17 Polystyrene Plant		
SAMPLE NAME	: บริเวณจุดขนถ่าย Ethylbenzene		
SAMPLING DATE	: 10/10/2023	SAMPLE NO.	: A66100279
RECEIVED DATE	: 11/10/2023	SAMPLING TIME	: 14:10-15:10
SAMPLING INSTRUMENT	: Personal Pump Flow rate 0.10 L/min	TESTED DATE	: 11/10/2023-18/10/2023
	Serial No. 218383	REPORTED DATE	: 20/10/2023

PARAMETER*	TEST METHOD	RESULT	STD[1]	STD[2]	UNIT
Ethylbenzene	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.63	435	87	mg/m^3
		< 0.83	100	20	ppm

REMARK:

[1] Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

[2] American Conference of Government Industrial Hygienists (ACGIH) B.E 2565 (2022)

* Parameter have License Registeration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

Examined By .....

(Miss Thanatporn Klinsopon)

20/10/2023

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Approved By .....

(Mr. Kawee Suthasub)

20/10/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. ATR6610064

Report No. 6610-0991

TEST REPORT

CUSTOMER	: PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	: 7,I-1 Road, Map Ta Phut Industrial Estate, Map Ta Phut, Muang Rayong, Rayong, 21150		
SAMPLE SOURCE	: GC 17 Polystyrene Plant		
SAMPLE NAME	: บริเวณจุดขนถ่าย Ethylbenzene		
SAMPLING DATE	: 25/10/2023	SAMPLE NO.	: A66100991
RECEIVED DATE	: 30/10/2023	SAMPLING TIME	: 14:30-15:30
SAMPLING INSTRUMENT	: Personal Pump Flow rate 0.10 L/min Serial No. 218406	TESTED DATE REPORTED DATE	: 30/10/2023-31/10/2023 : 06/11/2023

PARAMETER*	TEST METHOD	RESULT	STD /1	STD /2	UNIT
Ethylbenzene	Sorbent Adsorption, Gas Chromatography/NIOSH 1501	< 3.63	435	87	mg/m^3
		< 0.83	100	20	ppm

REMARK:

/1 Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

/2 American Conference of Government Industrial Hygienists (ACGIH) B.E. 2565 (2022)

* Parameter have License Registeration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Aocha Khwansirimongkon)

Examined By .....
(Miss Thanatporn Klinsopon)
06/11/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....
(Mr. Kawee Suthasub)
06/11/2023

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Request No. LA66-R0917

Report No. R6609-0261

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	ห้องตัดเม็ด (X-133)			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 12 hr. & L_{max}	SAMPLE NO.	:	27111
DETERMINATION METHOD	:	ISO 11202:2010	MEASURING DATE	:	04/09/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
		S/N 00322754 : Class 2	REPORTED DATE	:	09/09/2023

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
07:00-08:00	73.4	86.0	dB(A)
08:00-09:00	67.0	72.3	dB(A)
09:00-10:00	66.8	72.5	dB(A)
10:00-11:00	67.2	68.0	dB(A)
11:00-12:00	66.7	70.6	dB(A)
12:00-13:00	67.1	72.6	dB(A)
13:00-14:00	66.9	69.6	dB(A)
14:00-15:00	67.3	76.5	dB(A)
15:00-16:00	66.8	71.7	dB(A)
16:00-17:00	67.0	71.8	dB(A)
17:00-18:00	66.7	75.3	dB(A)
18:00-19:00	84.4	86.3	dB(A)
L_{eq} 12 hr.	74.6	–	dB(A)
Standard	87[1]	140[1], 115[2]	dB(A)

REMARK :

[1] Notification of The Ministry of Industry B.E. 2546 (2003)

[2] Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Pornnapa Phongphet

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0917

Report No. R6609-0262

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	ห้องตัดเม็ด (2X-233)			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 12 hr. & L_{max}	SAMPLE NO.	:	27112
DETERMINATION METHOD	:	ISO 11202:2010	MEASURING DATE	:	04/09/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
		S/N 00222593 : Class 2	REPORTED DATE	:	09/09/2023

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
07:00-08:00	85.1	89.9	dB(A)
08:00-09:00	72.7	74.8	dB(A)
09:00-10:00	70.7	72.6	dB(A)
10:00-11:00	71.3	73.1	dB(A)
11:00-12:00	71.2	73.1	dB(A)
12:00-13:00	72.0	74.4	dB(A)
13:00-14:00	70.8	72.4	dB(A)
14:00-15:00	72.4	75.1	dB(A)
15:00-16:00	73.9	75.2	dB(A)
16:00-17:00	72.3	73.7	dB(A)
17:00-18:00	72.7	74.9	dB(A)
18:00-19:00	86.7	90.3	dB(A)
L_{eq} 12 hr.	79.0	-	dB(A)
Standard	87[1]	140[1], 115[2]	dB(A)

REMARK : [1] Notification of The Ministry of Industry B.E. 2546 (2003)

[2] Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Pornnapa Phongphet

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0917

Report No. R6609-0258

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	Bagging Unit			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 8 hr. & L_{max}	SAMPLE NO.	:	27108
DETERMINATION METHOD	:	ISO 11202:2010	MEASURING DATE	:	04/09/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
		S/N 00322744 : Class 2	REPORTED DATE	:	09/09/2023

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
08:30-09:30	72.0	82.2	dB(A)
09:30-10:30	75.3	82.8	dB(A)
10:30-11:30	76.9	90.8	dB(A)
11:30-12:30	68.9	92.1	dB(A)
12:30-13:30	80.0	100.5	dB(A)
13:30-14:30	77.8	82.7	dB(A)
14:30-15:30	77.7	82.6	dB(A)
15:30-16:30	76.5	82.3	dB(A)
L_{eq} 8 hr.	76.7	–	dB(A)
Standard	90[/1]	140[/1], 115[/2]	dB(A)

REMARK : [/1] Notification of The Ministry of Industry B.E. 2546 (2003)

[/2] Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Pornnapa Phongphet

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0917

Report No. R6609-0260

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	Vacuum Pump			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 12 hr. & L_{max}	SAMPLE NO.	:	27110
DETERMINATION METHOD	:	ISO 11202:2010	MEASURING DATE	:	04/09/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
		S/N 00322757 : Class 2	REPORTED DATE	:	09/09/2023

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
07:00-08:00	80.0	87.7	dB(A)
08:00-09:00	78.9	84.6	dB(A)
09:00-10:00	79.1	87.7	dB(A)
10:00-11:00	78.9	88.8	dB(A)
11:00-12:00	79.7	90.3	dB(A)
12:00-13:00	82.1	100.1	dB(A)
13:00-14:00	82.2	99.8	dB(A)
14:00-15:00	80.4	92.4	dB(A)
15:00-16:00	78.7	84.5	dB(A)
16:00-17:00	78.9	93.6	dB(A)
17:00-18:00	78.9	86.1	dB(A)
18:00-19:00	78.7	79.0	dB(A)
L_{eq} 12 hr.	79.9	–	dB(A)
Standard	87[1]	140[1], 115[2]	dB(A)

REMARK : [1] Notification of The Ministry of Industry B.E. 2546 (2003)

[2] Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Pornnapa Phongphet

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Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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Request No. LA66-R0917

Report No. R6609-0259

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	ห้องตัดยาง			
PARAMETER*	:	L_{eq} 1 hr., L_{eq} 12 hr. & L_{max}	SAMPLE NO.	:	27109
DETERMINATION METHOD	:	ISO 11202:2010	MEASURING DATE	:	04/09/2023
INSTRUMENT	:	Integrated Sound Level Meter	RECEIVED DATE	:	04/09/2023
		S/N 00322751 : Class 2	REPORTED DATE	:	09/09/2023

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
07:00-08:00	85.8	91.6	dB(A)
08:00-09:00	82.0	83.0	dB(A)
09:00-10:00	82.0	84.0	dB(A)
10:00-11:00	81.8	83.6	dB(A)
11:00-12:00	81.7	84.1	dB(A)
12:00-13:00	81.6	82.6	dB(A)
13:00-14:00	81.6	83.4	dB(A)
14:00-15:00	81.7	84.2	dB(A)
15:00-16:00	81.6	82.2	dB(A)
16:00-17:00	81.5	83.3	dB(A)
17:00-18:00	81.6	82.2	dB(A)
18:00-19:00	88.6	91.1	dB(A)
L_{eq} 12 hr.	83.3	–	dB(A)
Standard	87[/1]	140[/1], 115[/2]	dB(A)

REMARK :

[/1] Notification of The Ministry of Industry B.E. 2546 (2003)

[/2] Regulation of The Ministry of Labour B.E. 2559 (2016)

* Measurement By Ms. Pornnapa Phongphet

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By .....

(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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ผลการตรวจวัดระดับเสียงสะสม (Noise Dose)

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Request No. LA66-R0931

Report No. R6609-0810

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150		
SAMPLE SOURCE	:	GC17 Polystyrene Plant		
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณชัยวัฒน์ หมูแก้วเครือ ID 26004537)		
MEASURING DATE	:	08/09/2023	SAMPLE NO.	: 27667
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	: 07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0640	REPORTED DATE	: 19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	81.8	83 /1	dB(A)
L_{max} 12 hr	98.3	115 /3	dB(A)
12 Hour dose	71.90	100 /2	%
Time weighted average level (8-hr TWA)#	83.6	85 /1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Request No. LA66-R0931

Report No. R6609-0811

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณปรีชา อ่อนนามวงศ์ ID 26004526)			
MEASURING DATE	:	08/09/2023	SAMPLE NO.	:	27668
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0641	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)[≠]	58.0	83[/1]	dB(A)
L_{max} 12 hr	84.7	115[/3]	dB(A)
12 Hour dose	0.30	100[/2]	%
Time weighted average level (8-hr TWA)[≠]	59.8	85[/1]	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

≠ Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Request No. LA66-R0931

Report No. R6609-0812

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150		
SAMPLE SOURCE	:	GC17 Polystyrene Plant		
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณนันทวัฒน์ จิตรเอื้อ ID 26004560)		
MEASURING DATE	:	08/09/2023	SAMPLE NO.	: 27669
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	: 07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0642	REPORTED DATE	: 19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	63.7	83 /1	dB(A)
L_{max} 12 hr	85.3	115 /3	dB(A)
12 Hour dose	1.10	100 /2	%
Time weighted average level (8-hr TWA)#	65.4	85 /1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0931

Report No. R6609-0813

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150		
SAMPLE SOURCE	:	GC17 Polystyrene Plant		
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณอธิปัทม์ อึ้งพยัคฆ์เดช ID 26008372)		
MEASURING DATE	:	08/09/2023	SAMPLE NO.	: 27670
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	: 07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0644	REPORTED DATE	: 19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)[#]	62.3	83[1]	dB(A)
L_{max} 12 hr	81.2	115[3]	dB(A)
12 Hour dose	0.80	100[2]	%
Time weighted average level (8-hr TWA)[#]	64.0	85[1]	dB(A)

REMARK :

[1] Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

[2] Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

[3] Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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(MRS. WANPEN LHAOCHINDAWAT)

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0931

Report No. R6609-0814

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณอิทธิพล วาดถนน ID 26004571)			
MEASURING DATE	:	08/09/2023	SAMPLE NO.	:	27671
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0643	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	61.7	83/1	dB(A)
L_{max} 12 hr	85.8	115/3	dB(A)
12 Hour dose	0.70	100/2	%
Time weighted average level (8-hr TWA)=	63.5	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0931

Report No. R6609-0815

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift A (Morning Shift) (คุณสุรเชษฐ์ ศรีสุวรรณ ID 26004543)			
MEASURING DATE	:	08/09/2023	SAMPLE NO.	:	27672
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0954	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	70.9	83/1	dB(A)
L_{max} 12 hr	90.4	115/3	dB(A)
12 Hour dose	5.90	100/2	%
Time weighted average level (8-hr TWA)#	72.7	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0956

Report No. R6609-1742

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณพิภพ สุขแสง ID 26004540)			
MEASURING DATE	:	14/09/2023	SAMPLE NO.	:	28611
RECEIVED DATE	:	14/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0641	REPORTED DATE	:	21/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	60.2	83/1	dB(A)
L_{max} 12 hr	82.7	115/3	dB(A)
12 Hour dose	0.50	100/2	%
Time weighted average level (8-hr TWA)#	62.0	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

\# Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

21/09/2023

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Request No. LA66-R0956

Report No. R6609-1743

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณสมเกียรติ ทองทวีทรัพย์ ID 26004536)			
MEASURING DATE	:	14/09/2023	SAMPLE NO.	:	28612
RECEIVED DATE	:	14/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0642	REPORTED DATE	:	21/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	72.8	83/1	dB(A)
L_{max} 12 hr	90.5	115/3	dB(A)
12 Hour dose	9.00	100/2	%
Time weighted average level (8-hr TWA)#	74.5	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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(MRS. WANPEN LHAOCHINDAWAT)

21/09/2023

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Request No. LA66-R0956

Report No. R6609-1744

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณนเรศ น่วมบัว ID 26004552)			
MEASURING DATE	:	14/09/2023	SAMPLE NO.	:	28613
RECEIVED DATE	:	14/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0640	REPORTED DATE	:	21/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	67.4	83/1	dB(A)
L_{max} 12 hr	90.3	115/3	dB(A)
12 Hour dose	2.60	100/2	%
Time weighted average level (8-hr TWA)#	69.1	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

21/09/2023

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Request No. LA66-R0956

Report No. R6609-1745

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17		
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150		
SAMPLE SOURCE	:	GC17 Polystyrene Plant		
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณนิวาส ใจจิตร์ ID 26004557)		
MEASURING DATE	:	14/09/2023	SAMPLE NO.	: 28614
RECEIVED DATE	:	14/09/2023	SAMPLING TIME	: 07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0644	REPORTED DATE	: 21/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	76.3	83/1	dB(A)
L_{max} 12 hr	92.4	115/3	dB(A)
12 Hour dose	20.10	100/2	%
Time weighted average level (8-hr TWA)=	78.0	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

\# Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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(MRS. WANPEN LHAOCHINDAWAT)

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Request No. LA66-R0956

Report No. R6609-1746

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift B (Morning Shift) (คุณกฤษฎา พรหมกุลจันทร์ ID 26004547)			
MEASURING DATE	:	14/09/2023	SAMPLE NO.	:	28615
RECEIVED DATE	:	14/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0643	REPORTED DATE	:	21/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	67.0	83/1	dB(A)
L_{max} 12 hr	88.2	115/3	dB(A)
12 Hour dose	2.40	100/2	%
Time weighted average level (8-hr TWA)#	68.8	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

21/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0931

Report No. R6609-0803

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณปวนิตย์ รัตนภูผา ID 26004533)			
MEASURING DATE	:	07/09/2023	SAMPLE NO.	:	27660
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0958	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	70.5	83/1	dB(A)
L_{max} 12 hr	91.1	115/3	dB(A)
12 Hour dose	5.30	100/2	%
Time weighted average level (8-hr TWA)≠	72.2	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

≠ Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Request No. LA66-R0931

Report No. R6609-0804

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณยศพนธ์ พิสภา ID 26004532)			
MEASURING DATE	:	07/09/2023	SAMPLE NO.	:	27661
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0954	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	78.1	83/1	dB(A)
L_{max} 12 hr	94.7	115/3	dB(A)
12 Hour dose	30.50	100/2	%
Time weighted average level (8-hr TWA)#	79.8	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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โทร. 0-3848-1197, 0-3876-3031-2 แฟกซ์ : 0-3848-2095
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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0931

Report No. R6609-0805

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณเดชา ไพบูลย์ ID 26004524)			
MEASURING DATE	:	07/09/2023	SAMPLE NO.	:	27662
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0957	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	58.0	83 /1	dB(A)
L_{max} 12 hr	85.9	115 /3	dB(A)
12 Hour dose	0.30	100 /2	%
Time weighted average level (8-hr TWA)#	59.8	85 /1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0931

Report No. R6609-0806

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณสันติ คงสาคร ID 26004561)			
MEASURING DATE	:	07/09/2023	SAMPLE NO.	:	27663
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB1497	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	67.9	83 /1	dB(A)
L_{max} 12 hr	89.7	115 /3	dB(A)
12 Hour dose	2.90	100 /2	%
Time weighted average level (8-hr TWA)#	69.6	85 /1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0931

Report No. R6609-0807

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift C (Morning Shift) (คุณชาญวิทย์ อภิรัชตกุล ID 26004569)			
MEASURING DATE	:	07/09/2023	SAMPLE NO.	:	27664
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB1498	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	76.6	83/1	dB(A)
L_{max} 12 hr	96.6	115/3	dB(A)
12 Hour dose	21.60	100/2	%
Time weighted average level (8-hr TWA)=	78.3	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0944

Report No. R6609-1058

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณชัยวัฒน์ ภมรคณเสวิต ID 26004535)			
MEASURING DATE	:	11/09/2023	SAMPLE NO.	:	27923
RECEIVED DATE	:	12/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB1499	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	62.3	83/1	dB(A)
L_{max} 12 hr	88.0	115/3	dB(A)
12 Hour dose	0.80	100/2	%
Time weighted average level (8-hr TWA)#	64.0	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Pornnapa Phongphet)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Request No. LA66-R0944

Report No. R6609-1059

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณสุพจน์ มหาเขตร์ ID 26004539)			
MEASURING DATE	:	11/09/2023	SAMPLE NO.	:	27924
RECEIVED DATE	:	12/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB1500	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	59.3	83 /1	dB(A)
L_{max} 12 hr	86.3	115 /3	dB(A)
12 Hour dose	0.40	100 /2	%
Time weighted average level (8-hr TWA)#	61.0	85 /1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Pornnapa Phongphet)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

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Request No. LA66-R0944

Report No. R6609-1060

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณจักรกริสน์ สมพรชัยกิจ ID 26004563)			
MEASURING DATE	:	11/09/2023	SAMPLE NO.	:	27925
RECEIVED DATE	:	12/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB1498	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	66.9	83/1	dB(A)
L_{max} 12 hr	88.0	115/3	dB(A)
12 Hour dose	2.30	100/2	%
Time weighted average level (8-hr TWA)#	68.6	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Pornnapa Phongphet)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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19/09/2023

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Request No. LA66-R0944

Report No. R6609-1061

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณมินทดา วาณิชย์เชาวลิตกุล ID 26010092)			
MEASURING DATE	:	11/09/2023	SAMPLE NO.	:	27926
RECEIVED DATE	:	12/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB1365	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	76.9	83/1	dB(A)
L_{max} 12 hr	96.6	115/3	dB(A)
12 Hour dose	23.20	100/2	%
Time weighted average level (8-hr TWA)#	78.7	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Pornnapa Phongphet)

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0944

Report No. R6609-1062

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณณรงค์ สว่างดี ID 26004574)			
MEASURING DATE	:	11/09/2023	SAMPLE NO.	:	27927
RECEIVED DATE	:	12/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB1497	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	61.7	83/1	dB(A)
L_{max} 12 hr	85.7	115/3	dB(A)
12 Hour dose	0.70	100/2	%
Time weighted average level (8-hr TWA)=	63.5	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Pornnapa Phongphet)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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Website : http://www.etc1992.com E-mail : info@etc1992.com

Request No. LA66-R0944

Report No. R6609-1063

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต Shift D (Morning Shift) (คุณสถิตย์ พรหมศร ID 26004556)			
MEASURING DATE	:	12/09/2023	SAMPLE NO.	:	27928
RECEIVED DATE	:	12/09/2023	SAMPLING TIME	:	07:00-19:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB1497	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (12-hr TWA)#	64.0	83/1	dB(A)
L_{max} 12 hr	88.2	115/3	dB(A)
12 Hour dose	1.20	100/2	%
Time weighted average level (8-hr TWA)#	65.8	85/1	dB(A)

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Pornnapa Phongphet)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

19/09/2023

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ACCREDITED LABORATORY ISO/IEC 17025

EASTERN THAI CONSULTING 1992 CO., LTD.
683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230
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Request No. LA66-R1218

Report No. R6612-0451

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	Bagging Unit (GPPS) (คุณบัญญัติ โกมลเพชร ID 30664894)			
MEASURING DATE	:	08/12/2023	SAMPLE NO.	:	34296
RECEIVED DATE	:	08/12/2023	SAMPLING TIME	:	08:00-17:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0643	REPORTED DATE	:	11/12/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (8-hr TWA)#	72.0	85[1]	dB(A)
L_{max} 8 hr	89.5	115[3]	dB(A)
8 Hour dose	5.00	100[2]	%

REMARK :

[1] Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

[2] Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

[3] Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Measurement By Ms. Jutarat Suksaget)

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Request No. LA66-R0931

Report No. R6609-0809

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	Bagging Unit (HIPS, GPPS) (คุณเกรียงไกร สำราญ ID 30663532)			
MEASURING DATE	:	07/09/2023	SAMPLE NO.	:	27666
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	:	08:00-17:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB1500	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (8-hr TWA)#	77.3	85/1	dB(A)
L_{max} 8 hr	90.0	115/3	dB(A)
8 Hour dose	17.00	100/2	%

REMARK :

/1 Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

/2 Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

/3 Regulation of The Ministry of Labour B.E. 2559 (2016)

Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Measurement By Ms. Savita Kittinoavarat)

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Request No. LA66-R1218

Report No. R6612-0452

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	Bagging Unit (HIPS) (คุณสิทธิกร เมืองชมพร ID 30657101)			
MEASURING DATE	:	08/12/2023	SAMPLE NO.	:	34297
RECEIVED DATE	:	08/12/2023	SAMPLING TIME	:	08:00-17:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB0640	REPORTED DATE	:	11/12/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (8-hr TWA)#	68.0	85[1]	dB(A)
L_{max} 8 hr	91.3	115[3]	dB(A)
8 Hour dose	2.00	100[2]	%

REMARK :

[1] Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

[2] Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

[3] Regulation of The Ministry of Labour B.E. 2559 (2016)

\# Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009

(Measurement By Ms. Jutarat Suksaget)

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Request No. LA66-R0931

Report No. R6609-0808

TEST REPORT

CUSTOMER	:	PTT Global Chemical Public Company Limited Branch 17			
ADDRESS	:	7 I-1 Rd., Map Ta Phut Industrial Estate, Map Ta Phut, Rayong 21150			
SAMPLE SOURCE	:	GC17 Polystyrene Plant			
SAMPLE POINT	:	บริเวณพื้นที่กระบวนการผลิต (Morning Shift) ผู้ช่วยช่าง (คุณอุดม ชื่นอารมย์ ID OOGI02181)			
MEASURING DATE	:	07/09/2023	SAMPLE NO.	:	27665
RECEIVED DATE	:	08/09/2023	SAMPLING TIME	:	08:00-17:00
SAMPLING INSTRUMENT	:	Noise dosimeter : S/N CB1499	REPORTED DATE	:	19/09/2023

PARAMETER*	RESULT	STANDARD	UNIT
Time weighted average level (8-hr TWA)[#]	82.2	85[1]	dB(A)
L_{max} 8 hr	108.2	115[3]	dB(A)
8 Hour dose	52.70	100[2]	%

REMARK :

[1] Notification of The Department of Labour Protection and Welfare B.E. 2561 (2018)

[2] Standard of National Institute for Occupational Safety and Health, Occupational Noise Exposure Revised Criteria 1998

[3] Regulation of The Ministry of Labour B.E. 2559 (2016)

[#] Based on Criteria 85 dB(A) ; 3 dB Exchange Rate

* Parameter have License Registration of Department of Labour Protection and Welfare No. 0403-03-2564-0009 (Measurement By Ms. Savita Kittinoavarat)

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