

ภาคผนวก ค
รายงานผลการวิเคราะห์





TEST REPORT

Analysis No. : R25-0037
Received Date : 09/01/25
Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.
Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150
Contact : -

Report Date : 15/01/25
Analysis Date : 13-14/01/25
Job No. : S680051/Jan
Sampling By : TET
Type of Sample : Ambient Air

Sampling Point	Sample No.	Sampling Date	Result
			1,3-Butadiene ($\mu\text{g}/\text{m}^3$)
ริมรั้วด้านทิศเหนือ (47P 0731137 UTM 1402837)	2501-AA0131	07-08/01/25	0.76

Method : 1,3-Butadiene = Canister, GC/MS (US.EPA Method TO-15)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
15/01/25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
15/01/25

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1/6 Soi Ramkhamhaeng 145, Khwaeng / Khet Saphansung, Bangkok 10240

E-mail : admin@tet1995.com

1/6 ซอยรามคำแหง 145 แขวงสะพานสูง เขตสะพานสูง กรุงเทพมหานคร 10240

Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Customer Name : PTT Global Chemical Public Company Limited Report No. : 0037/2025/1-1
Address : 19, Map Ta Phut Industrial Estate, Report Date : January 14, 2025
Rong Pui Road, Map Ta Phut, Mueang Sampling Date : January 7-8, 2025
Rayong 21150 Type of Sample : WS & WD
Job No. : S670051/Jan

Item	Time	ริมรั้วด้านทิศเหนือ	
		07-08/01/25	
		WS	WD
1.	10:00	0.4	NE
2.	11:00	0.4	NNE
3.	12:00	0.9	ENE
4.	13:00	0.4	NNW
5.	14:00	1.3	ESE
6.	15:00	1.3	SW
7.	16:00	1.3	SW
8.	17:00	0.9	SSW
9.	18:00	0.4	SW
10.	19:00	1.3	W
11.	20:00	1.3	W
12.	21:00	0.4	W
13.	22:00	0.4	NW
14.	23:00	0.4	NNW
15.	00:00	0.4	NNW
16.	01:00	0.4	NNW
17.	02:00	0.4	NW
18.	03:00	0.0	NW
19.	04:00	0.0	NW
20.	05:00	0.9	NW
21.	06:00	0.4	NNW
22.	07:00	1.3	NNW
23.	08:00	1.3	N
24.	09:00	0.0	NNW
Average		0.7	-

Remark : WS = WIND SPEED (m/s)

WD = WIND DIRECTION

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

Pramual M.

Pramual Moonsarn



Wannasiri S.

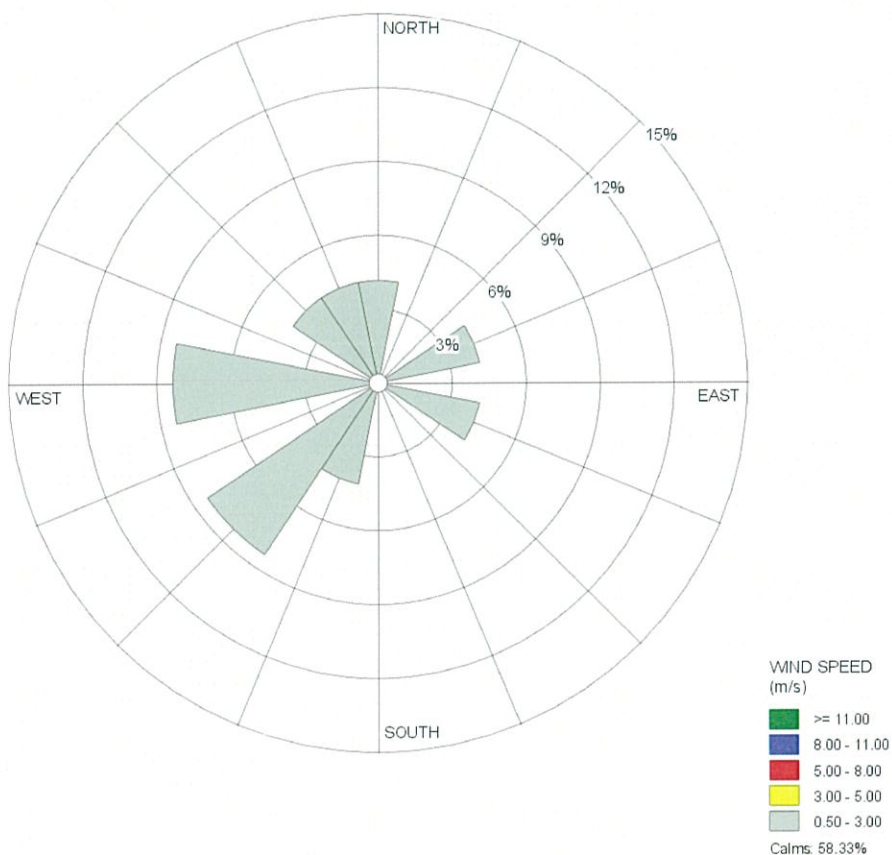
Wannasiri Suriyawong

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TET

Thai Environmental Technic Limited
บริษัท เทคโนโลยีสิ่งแวดล้อมไทย จำกัด



ผังแสดงความเร็วลมและทิศทางลม ริมรั้วด้านทิศเหนือ

ระหว่างวันที่ 7-8 มกราคม 2568

Pramual M.

Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong



TEST REPORT

Analysis No. : R25-0371
Received Date : 07/02/25
Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.
Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150
Contact : -

Report Date : 17/02/25
Analysis Date : 10/02/25
Job No. : S680051/Feb
Sampling By : TET
Type of Sample : Ambient Air

Sampling Point	Sample No.	Sampling Date	Result
			1,3-Butadiene ($\mu\text{g}/\text{m}^3$)
ริมรั้วด้านทิศเหนือ (47P 0731137 UTM 1402837)	2502-AA0262	04-05/02/25	0.66

Method : 1,3-Butadiene = Canister, GC/MS (US.EPA Method TO-15)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
17/2/25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
17/2/25

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TEST REPORT

Customer Name : PTT Global Chemical Public Company Limited Report No. : 0371/2025/1-1
Address : 19, Map Ta Phut Industrial Estate, Report Date : February 13, 2025
Rong Pui Road, Map Ta Phut, Mueang Sampling Date : February 4-5, 2025
Rayong 21150 Type of Sample : WS & WD
Job No. : S680051/Feb

Item	Time	ริมรั้วด้านทิศเหนือ	
		04-05/02/25	
		WS	WD
1.	09:00	1.8	SW
2.	10:00	1.3	WSW
3.	11:00	2.2	WSW
4.	12:00	1.8	SSW
5.	13:00	1.8	SW
6.	14:00	3.1	WSW
7.	15:00	3.1	SW
8.	16:00	2.7	SW
9.	17:00	2.2	WSW
10.	18:00	2.2	SW
11.	19:00	1.8	WSW
12.	20:00	1.3	W
13.	21:00	0.9	WNW
14.	22:00	0.9	W
15.	23:00	1.3	SW
16.	00:00	1.8	SW
17.	01:00	1.8	ENE
18.	02:00	0.9	SW
19.	03:00	1.3	WNW
20.	04:00	0.9	WNW
21.	05:00	1.3	WNW
22.	06:00	0.4	WSW
23.	07:00	0.0	WSW
24.	08:00	0.4	WNW
Average		1.6	-

Remark : WS = WIND SPEED (m/s)

WD = WIND DIRECTION

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

Pramual M

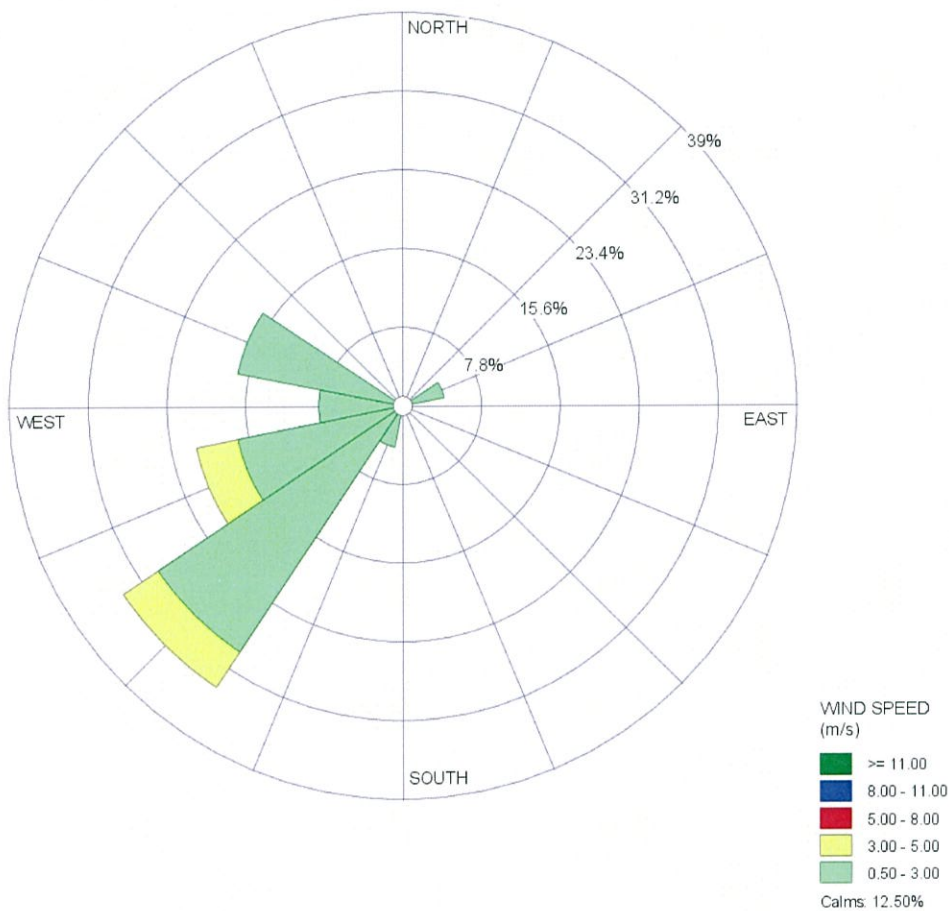
Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong

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ระหว่างวันที่ 4-5 กุมภาพันธ์ 2568

Pramual M.

Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong



TEST REPORT


Analysis No. : R25-0836
Received Date : 13/03/25
Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.
Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150
Contact : -

Report Date : 19/03/25
Analysis Date : 14/03/25
Job No. : S680051/Mar/3
Sampling By : TET
Type of Sample : Ambient Air

Sampling Point	Sample No.	Sampling Date	Result
			1,3-Butadiene ($\mu\text{g}/\text{m}^3$)
ริมรั้วด้านทิศเหนือ (47P 0731137 UTM 1402837)	2503-AA0591	11-12/03/25	0.41

Method : 1,3-Butadiene = Canister, GC/MS (US.EPA Method TO-15)

Reviewed by


Ms. Wareerut Prachumdaeng
Chief of Laboratory
19/03/25



Approved by


Mrs. Pornpip Pethshee
Laboratory Manager
19/03/25

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Customer Name : PTT Global Chemical Public Company Limited Report No. : 0836/2025/1-1
Address : 19, Map Ta Phut Industrial Estate, Report Date : March 21, 2025
Rong Pui Road, Map Ta Phut, Mueang Sampling Date : March 11-12, 2025
Rayong 21150 Type of Sample : WS & WD
Job No. : S680051/Mar/3

Item	Time	ริมรั้วด้านทิศเหนือ	
		11-12/03/25	
		WS	WD
1.	10:00	1.8	WSW
2.	11:00	1.8	WSW
3.	12:00	2.2	WSW
4.	13:00	2.7	SW
5.	14:00	2.7	SW
6.	15:00	3.1	SW
7.	16:00	3.1	SW
8.	17:00	3.1	SW
9.	18:00	2.7	SW
10.	19:00	2.7	SW
11.	20:00	1.3	E
12.	21:00	0.9	E
13.	22:00	1.3	SW
14.	23:00	1.3	SW
15.	00:00	1.3	SW
16.	01:00	0.9	SW
17.	02:00	1.8	SW
18.	03:00	1.8	SW
19.	04:00	2.2	SW
20.	05:00	2.2	SW
21.	06:00	2.2	SW
22.	07:00	2.7	SW
23.	08:00	2.2	SW
24.	09:00	2.7	SW
Average		2.1	-

Remark : WS = WIND SPEED (m/s)

WD = WIND DIRECTION

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

Pramual M.

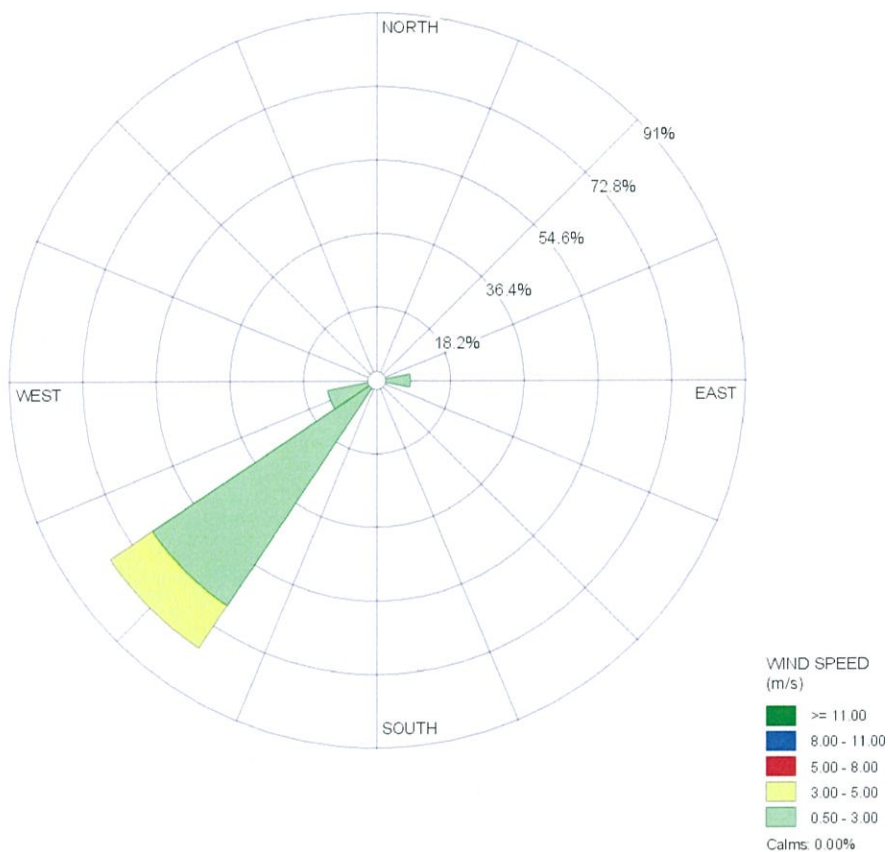
Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong

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ระหว่างวันที่ 11-12 มีนาคม 2568

Pramual M.

Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong



Thai Environmental Technic Limited
บริษัท เทคนิคสิ่งแวดล้อมไทย จำกัด

ORIGINAL

ต้นฉบับ

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Page 1 of 12

TEST REPORT

Analysis No. : R25-1406
Received Date : 08/04/25
Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.
Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150
Contact : -

Report Date : 29/04/25
Analysis Date : 28/04/25
Job No. : S680051/Apr/2
Sampling By : TET
Type of Sample : Ambient Air

Sampling Point	Sample No.	Sampling Date	Result
			1,3-Butadiene ($\mu\text{g}/\text{m}^3$)
ริมรั้วด้านทิศเหนือ (47P 0731137 UTM 1402837)	2504-AA0195	04-05/04/25	0.86

Method : 1,3-Butadiene = Canister, GC/MS (US.EPA Method TO-15)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
29/04/25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
29/04/25

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Tel : 0-2373-7799 (Auto) Fax : 0-2373-7979

TEST REPORT

Customer Name : PTT Global Chemical Public Company Limited Report No. : 1406/2025/1-1
Address : 19, Map Ta Phut Industrial Estate, Report Date : April 11, 2025
Rong Pui Road, Map Ta Phut, Mueang Sampling Date : April 4-5, 2025
Rayong 21150 Type of Sample : WS & WD
Job No. : S680051/Apr/2

Item	Time	ริมรั้วด้านทิศเหนือ	
		04-05/04/25	
		WS	WD
1.	09:00	0.2	SE
2.	10:00	0.8	SE
3.	11:00	2.2	SE
4.	12:00	1.9	E
5.	13:00	2.0	ENE
6.	14:00	1.5	E
7.	15:00	1.8	NNE
8.	16:00	1.0	ENE
9.	17:00	1.1	ENE
10.	18:00	1.1	ENE
11.	19:00	0.9	NE
12.	20:00	0.3	ENE
13.	21:00	0.7	N
14.	22:00	1.1	NE
15.	23:00	1.1	ESE
16.	00:00	0.5	ENE
17.	01:00	1.4	ENE
18.	02:00	0.3	ENE
19.	03:00	0.4	ENE
20.	04:00	0.9	ENE
21.	05:00	1.0	ENE
22.	06:00	0.7	NE
23.	07:00	0.7	ENE
24.	08:00	0.8	E
Average		1.0	-

Remark : WS = WIND SPEED (m/s)

WD = WIND DIRECTION

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

Pramual M.

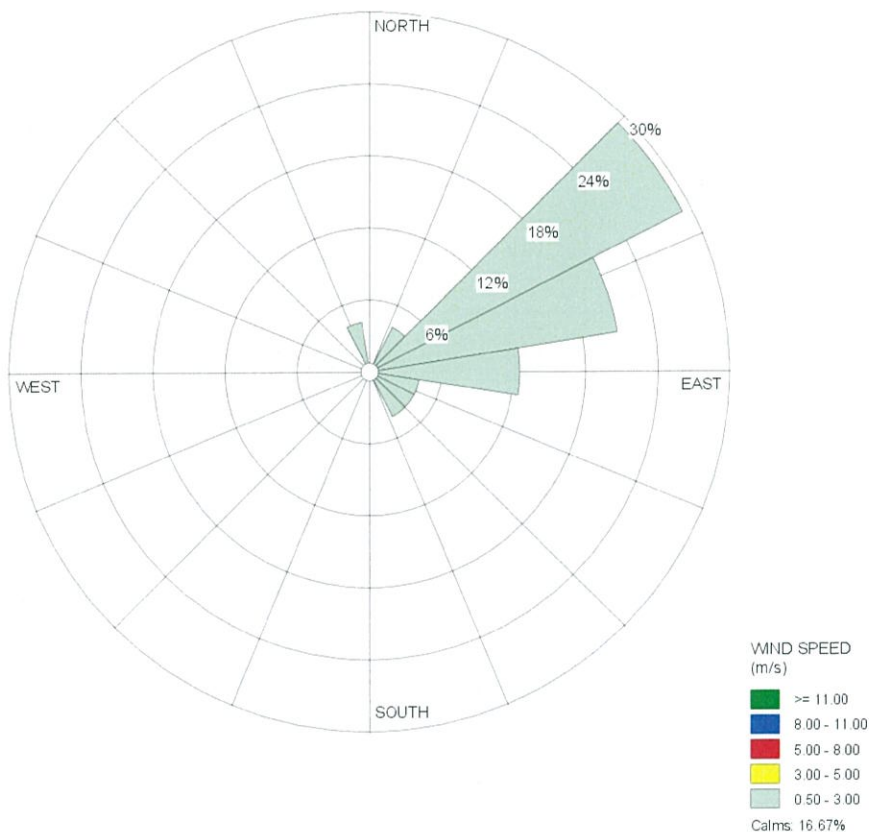
Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong

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ระหว่างวันที่ 4-5 เมษายน 2568

Pramual M.

Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong

TEST REPORT

Analysis No. : R25-1786
Received Date : 15/05/25
Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.
Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150
Contact : -

Report Date : 21/05/25
Analysis Date : 16-19/05/25
Job No. : S680051/May
Sampling By : TET
Type of Sample : Ambient Air

Sampling Point	Sample No.	Sampling Date	Result
			1,3-Butadiene ($\mu\text{g}/\text{m}^3$)
ริมรั้วด้านทิศเหนือ (47P 0731137 UTM 1402837)	2505-AA0523	13-14/05/25	1.50

Method : 1,3-Butadiene = Canister, GC/MS (US.EPA Method TO-15)

Reviewed by



Ms. Wareerut Prachumdaeng
Chief of Laboratory
21/05/25



Approved by



Mrs. Porntip Pethshee
Laboratory Manager
21/05/25

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TEST REPORT

Customer Name : PTT Global Chemical Public Company Limited Report No. : 1786/2025/1-1
Address : 19, Map Ta Phut Industrial Estate, Report Date : May 21, 2025
Rong Pui Road, Map Ta Phut, Mueang Sampling Date : May 13-14, 2025
Rayong 21150 Type of Sample : WS & WD
Job No. : S680051/May

Item	Time	ริมรั้วด้านทิศเหนือ	
		13-14/05/25	
		WS	WD
1.	09:00	0.4	E
2.	10:00	0.4	NW
3.	11:00	2.2	NW
4.	12:00	1.8	ENE
5.	13:00	1.3	ENE
6.	14:00	2.7	NNW
7.	15:00	4.0	ENE
8.	16:00	3.1	ENE
9.	17:00	3.1	ENE
10.	18:00	1.8	ENE
11.	19:00	1.3	E
12.	20:00	1.3	E
13.	21:00	0.4	E
14.	22:00	0.4	E
15.	23:00	0.0	E
16.	00:00	0.9	NW
17.	01:00	0.0	N
18.	02:00	0.9	NW
19.	03:00	0.0	N
20.	04:00	0.9	NW
21.	05:00	0.9	NW
22.	06:00	0.0	NW
23.	07:00	1.3	NW
24.	08:00	0.9	NW
Average		1.3	-

Remark : WS = WIND SPEED (m/s)

WD = WIND DIRECTION

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

Pramual M.

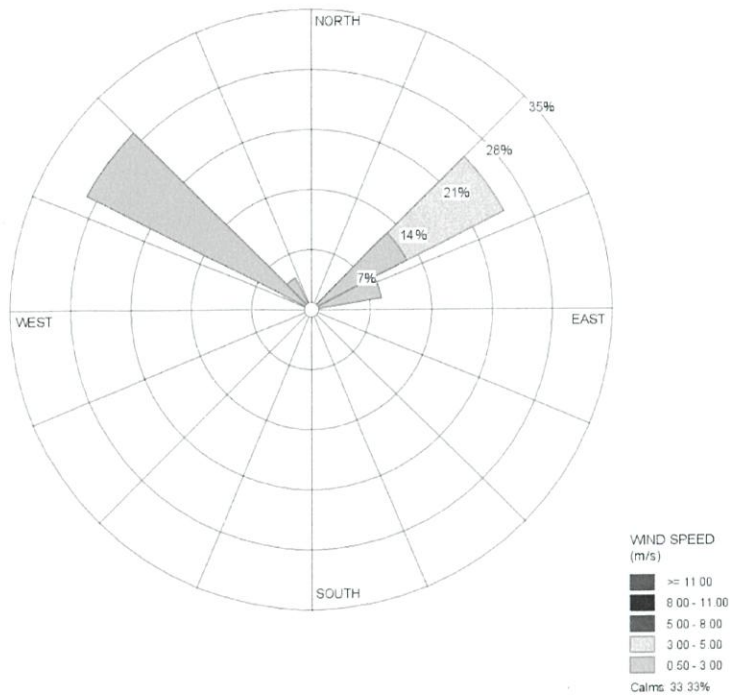
Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong

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ระหว่างวันที่ 13-14 พฤษภาคม 2568

Pramual M.

Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong

TEST REPORT

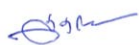
Analysis No. : R25-2080
Received Date : 09/06/25
Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.
Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150
Contact : -

Report Date : 12/06/25
Analysis Date : 10-11/06/25
Job No. : S680051/June
Sampling By : TET
Type of Sample : Ambient Air

Sampling Point	Sample No.	Sampling Date	Result
			1,3-Butadiene ($\mu\text{g}/\text{m}^3$)
ริมรั้วด้านทิศเหนือ (47P 0731137 UTM 1402837)	2506-AA0310	06-07/06/25	< 0.11

Method : 1,3-Butadiene = Canister, GC/MS (US.EPA Method TO-15)

Reviewed by



Ms. Wareerut Prachumdaeng
Chief of Laboratory
12/06/25



Approved by



Mrs. Porntip Pethshee
Laboratory Manager
12/06/25

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TEST REPORT

Customer Name : PTT Global Chemical Public Company Limited Report No. : 2080/2025/1-1
Address : 19, Map Ta Phut Industrial Estate, Report Date : June 17, 2025
Rong Pui Road, Map Ta Phut, Mueang Sampling Date : June 6-7, 2025
Rayong 21150 Type of Sample : WS & WD
Job No. : S680051/June

Item	Time	ริมรั้วด้านทิศเหนือ	
		06-07/06/25	
		WS	WD
1.	09:00	0.4	NE
2.	10:00	0.4	N
3.	11:00	0.9	NNE
4.	12:00	0.9	NNE
5.	13:00	0.4	NNE
6.	14:00	0.0	N
7.	15:00	0.9	N
8.	16:00	0.9	N
9.	17:00	0.4	NNE
10.	18:00	0.4	NNE
11.	19:00	0.0	NNE
12.	20:00	0.4	N
13.	21:00	0.4	NE
14.	22:00	0.4	N
15.	23:00	0.9	NNE
16.	00:00	0.9	NNE
17.	01:00	0.9	NE
18.	02:00	0.4	NE
19.	03:00	0.0	NE
20.	04:00	0.4	NNE
21.	05:00	0.0	N
22.	06:00	0.9	N
23.	07:00	0.4	N
24.	08:00	0.0	NNE
Average		0.5	-

Remark : WS = WIND SPEED (m/s)

WD = WIND DIRECTION

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

Pramual M.

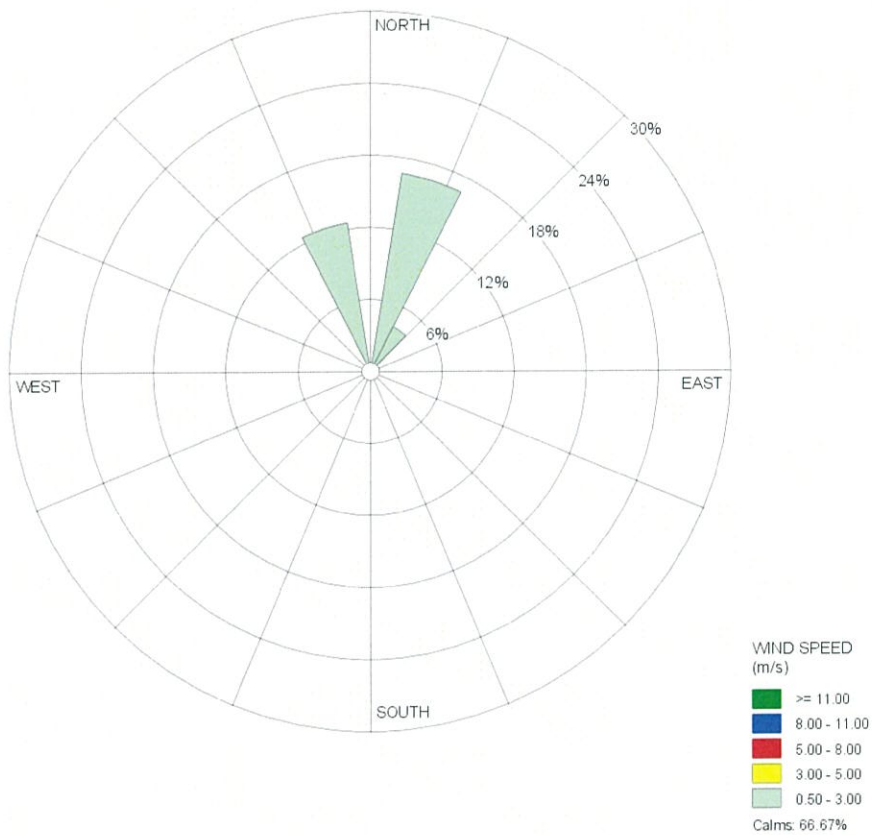
Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong

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ระหว่างวันที่ 6-7 มิถุนายน 2568

Pramual M.

Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong



TEST REPORT

Customer Name : PTT Global Chemical Public Company Limited Report No. : 2025/1-2
Address : 19, Map Ta Phut Industrial Estate, Report Date : May 8, 2025
Rong Pui Road, Map Ta Phut, Mueang Sampling Date : April 21-28, 2025
Rayong 21150 Type of Sample : Sound Level
Job No. : S680051/Apr/1

Item	Time	Result (dB (A))											
		ริมรั้วด้านทิศเหนือ											
		21-22/04/25			22-23/04/25			23-24/04/25			24-25/04/25		
		Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀
1.	09.00-10.00	60.3	71.2	56.9	57.6	67.2	54.7	56.6	67.2	54.9	54.3	63.5	52.8
2.	10.00-11.00	58.6	69.5	55.3	58.9	68.4	56.2	56.9	67.5	53.8	57.9	68.6	55.8
3.	11.00-12.00	58.9	69.6	56.9	63.2	72.6	59.4	56.5	66.0	54.7	55.8	65.7	53.1
4.	12.00-13.00	63.9	72.6	60.4	62.5	74.2	59.7	54.0	62.0	52.1	58.7	68.5	56.0
5.	13.00-14.00	58.8	69.4	57.6	63.5	75.0	61.1	57.5	67.1	54.3	63.6	75.6	60.4
6.	14.00-15.00	63.2	72.1	60.1	61.1	73.3	58.2	56.9	66.0	54.3	59.0	69.7	56.7
7.	15.00-16.00	62.1	74.0	58.0	58.6	70.6	56.7	57.3	65.8	53.9	59.2	68.1	57.1
8.	16.00-17.00	63.3	75.5	61.0	62.5	72.5	60.0	55.0	65.9	53.6	54.5	65.8	52.1
9.	17.00-18.00	61.4	71.8	58.2	63.6	72.9	61.9	61.1	73.5	58.9	54.4	65.8	52.0
10.	18.00-19.00	50.1	59.0	48.4	49.1	58.8	46.8	55.0	64.3	53.1	56.0	67.1	52.6
11.	19.00-20.00	50.5	58.4	48.3	49.2	59.0	47.2	53.4	64.6	51.7	55.0	63.6	53.7
12.	20.00-21.00	55.7	66.6	53.0	55.5	66.0	52.8	53.5	64.0	51.8	49.7	57.4	47.6
13.	21.00-22.00	51.5	61.0	49.2	50.7	58.8	49.3	52.3	63.4	50.3	53.4	64.3	50.9
14.	22.00-23.00	55.5	66.1	52.7	51.5	60.9	49.8	48.7	58.3	46.6	47.0	54.5	45.3
15.	23.00-00.00	48.8	58.1	45.9	48.7	56.5	46.7	53.1	64.0	50.6	47.3	57.1	45.3
16.	00.00-01.00	52.1	61.1	49.8	49.3	57.5	47.6	51.7	59.5	49.5	53.1	61.3	49.6
17.	01.00-02.00	47.1	54.8	44.9	51.7	61.6	48.8	51.0	59.8	49.3	52.5	63.4	50.5
18.	02.00-03.00	54.7	66.2	52.4	50.0	60.0	48.8	47.0	55.2	44.5	49.5	56.9	47.5
19.	03.00-04.00	49.9	59.0	48.0	52.4	60.6	50.0	52.4	61.2	50.8	49.1	56.8	47.9
20.	04.00-05.00	47.9	56.5	45.1	51.9	62.3	50.0	48.8	59.1	46.8	50.6	58.8	48.4
21.	05.00-06.00	52.8	62.0	50.5	51.3	60.1	48.6	51.0	61.3	48.4	49.1	59.6	47.1
22.	06.00-07.00	55.8	65.9	53.1	48.1	56.1	46.0	48.2	57.7	45.7	54.3	65.7	52.2
23.	07.00-08.00	49.2	56.6	47.7	47.0	56.8	45.1	49.6	57.7	46.6	48.5	59.0	47.1
24.	08.00-09.00	63.2	74.4	61.8	56.3	67.8	53.5	54.9	63.1	52.1	62.0	74.4	59.0
Leq 24 hr		58.6	-	-	58.2	-	-	54.8	-	-	56.3	-	-
L ₉₀		-	-	56.0	-	-	55.6	-	-	52.5	-	-	53.7
Lmax		-	75.5	-	-	75.0	-	-	73.5	-	-	75.6	-
Standard ⁽¹⁾⁽²⁾		70	115	-	70	115	-	70	115	-	70	115	-
Ldn		61.3	-	-	60.2	-	-	58.4	-	-	59.3	-	-

Standard: ⁽¹⁾ Notification of the National Environment Board No. 15 (1997) (B.E. 2540)

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

Pramual M.

Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong

- PRIVATE LABORATORY REGISTERED NO. 3-256
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Customer Name : PTT Global Chemical Public Company Limited Report No. : 2025/2-2
Address : 19, Map Ta Phut Industrial Estate, Report Date : May 8, 2025
Rong Pui Road, Map Ta Phut, Mueang Sampling Date : April 21-28, 2025
Rayong 21150 Type of Sample : Sound Level
Job No. : S680051/Apr/1

Item	Time	Result (dB (A))								
		ริมรั้วด้านทิศเหนือ								
		25-26/04/25			26-27/04/25			27-28/04/25		
		Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀	Leq	Lmax	L ₉₀
1.	09.00-10.00	60.9	70.7	59.4	63.9	74.8	60.7	57.9	66.1	54.7
2.	10.00-11.00	56.8	66.2	54.0	63.7	73.6	62.3	55.3	65.2	53.7
3.	11.00-12.00	63.8	75.9	61.7	57.2	66.7	54.8	55.1	64.4	52.7
4.	12.00-13.00	57.7	66.3	55.0	55.8	67.3	53.7	60.6	73.1	57.9
5.	13.00-14.00	57.2	68.0	55.7	55.7	64.0	53.8	57.0	68.6	53.8
6.	14.00-15.00	58.6	69.2	56.7	58.7	69.8	55.9	61.4	70.6	59.4
7.	15.00-16.00	55.1	64.4	52.8	55.8	65.5	53.5	58.6	70.3	55.6
8.	16.00-17.00	54.3	62.9	51.6	63.4	75.0	59.6	59.0	67.7	56.0
9.	17.00-18.00	63.9	76.5	60.4	63.2	73.4	60.0	59.4	71.0	57.2
10.	18.00-19.00	47.5	54.8	46.0	49.4	58.0	47.1	49.0	59.4	45.8
11.	19.00-20.00	52.8	61.6	50.2	47.5	55.8	46.3	54.2	63.8	52.1
12.	20.00-21.00	55.5	65.9	53.2	66.5	76.8	64.6	69.1	79.4	66.5
13.	21.00-22.00	51.3	60.7	49.2	66.5	74.1	64.2	66.6	74.8	65.2
14.	22.00-23.00	50.3	59.4	48.4	67.7	78.1	65.7	65.4	75.7	63.7
15.	23.00-00.00	51.8	59.7	49.3	54.1	62.8	52.4	68.5	79.2	66.4
16.	00.00-01.00	56.0	67.7	54.0	51.2	59.7	48.3	48.4	56.6	47.0
17.	01.00-02.00	50.5	58.9	48.4	53.6	64.0	52.2	47.2	57.5	45.5
18.	02.00-03.00	55.2	65.2	53.2	47.1	57.0	45.2	50.3	61.0	48.2
19.	03.00-04.00	52.0	60.2	49.3	50.5	59.8	47.9	51.5	59.9	49.3
20.	04.00-05.00	49.1	59.8	46.9	51.8	62.3	50.3	55.7	65.4	54.0
21.	05.00-06.00	48.4	58.5	46.8	52.5	61.7	49.4	53.4	63.7	50.9
22.	06.00-07.00	53.7	62.7	50.9	47.3	56.9	45.5	47.6	57.1	45.6
23.	07.00-08.00	49.2	58.5	47.1	52.3	62.6	50.2	47.9	57.7	45.7
24.	08.00-09.00	57.4	67.8	55.3	56.9	67.8	54.0	63.4	75.8	61.6
Leq 24 hr		57.0	-	-	60.7	-	-	61.5	-	-
L ₉₀		-	-	54.7	-	-	58.4	-	-	59.3
Lmax		-	76.5	-	-	78.1	-	-	79.4	-
Standard ⁽¹⁾⁽²⁾		70	115	-	70	115	-	70	115	-
Ldn		60.5	-	-	65.8	-	-	67.6	-	-

Standard: ⁽¹⁾ Notification of the National Environment Board No. 15 (1997) (B.E. 2540)

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

Pramual M.

Pramual Moonsarn



Wannasiri S.

Wannasiri Suriyawong

- PRIVATE LABORATORY REGISTERED NO. 3-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL



TEST REPORT

Analysis No. : R25-1486

Received Date : 21/04/25

Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.

Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang Rayong 21150

Contact : -

Sample Conditions : 2504-WS0433 = clear

Report Date : 15/05/25

Analysis Date : 18-28/04/25

Job No. : S680051/Apr/3

Sampling Date : 18/04/25

Sampling By : TET

Type of Sample : Seawater

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2504-WS0433 แนวสะพานเดินเรือห่างจากชายฝั่ง ประมาณ 2 กม.		
1	pH	-	Electrometric Method (SM 4500 B)	8.40	7.0-8.5	18/04/25
2	SS	mg/L	Volumetric, Dried at 103-105 °C (SM 2540 F)	5.3	5.9 ⁽¹⁾	21/04/25
3	DO	mg/L	Membrane Electrode (SM 4500 G)	4.27	≥ 4.0	18/04/25
4	BOD	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	0.8	-	23-28/04/25
5	Oil & Grease	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	< 0.1	-	23/04/25
	Oil & Grease	-	Observation Method	not visible	not visible	18/04/25
6	NH ₃ -Nitrogen	µg-N/L	Distillation/Phenate Method (SM 4500-NH ₃ F)	< 10	-	24/04/25

Remarks : แนวสะพานเดินเรือห่างจากชายฝั่งประมาณ 2 กม. = 47P 0731376 UTM 1400107

: BOD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L

(1) สารแขวนลอย (Suspended Solids) มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกินผลรวมของค่าเฉลี่ย 1 วัน หรือ 1 เดือน หรือ 1 ปี บวกกับค่าเบี่ยงเบนมาตรฐานของค่าเฉลี่ยนั้น ๆ โดยค่าเฉลี่ย 1 วัน ให้วัดทุกชั่วโมง หรืออย่างน้อย 5 ครั้ง ที่ช่วงเวลาเท่า ๆ กัน ค่าเฉลี่ย 1 เดือน ให้วัดทุกวันหรืออย่างน้อย 4 ครั้ง ที่ช่วงเวลาเท่า ๆ กัน ใน 1 เดือน ณ เวลาเดียวกัน และค่าเฉลี่ย 1 ปี ให้วัดทุกเดือน ณ วันที่และเวลาเดียวกัน

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the National Environment Board (2021) (B.E. 2564); Class 5

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
15/05/25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
15/05/25

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TEST REPORT

Analysis No. : R25-1486

Received Date : 21/04/25

Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.

Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang Rayong 21150

Contact : -

Sample Conditions : 2504-WS0433 = clear

Report Date : 15/05/25

Analysis Date : 18-28/04/25

Job No. : S680051/Apr/3

Sampling Date : 18/04/25

Sampling By : TET

Type of Sample : Seawater

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2504-WS0434		
				หน้าท่าเทียบเรือที่ 1 (Jetty 1)		
1	pH	-	Electrometric Method (SM 4500 B)	8.40	7.0-8.5	18/04/25
2	SS	mg/L	Volumetric, Dried at 103-105 °C (SM 2540 F)	2.8	3.2 ⁽¹⁾	21/04/25
3	DO	mg/L	Membrane Electrode (SM 4500 G)	4.39	≥ 4.0	18/04/25
4	BOD	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	0.7	-	23-28/04/25
5	Oil & Grease	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	< 0.1	-	23/04/25
	Oil & Grease	-	Observation Method	not visible	not visible	18/04/25
6	NH ₃ -Nitrogen	µg-N/L	Distillation/Phenate Method (SM 4500-NH ₃ F)	< 10	-	24/04/25

Remarks : หน้าท่าเทียบเรือที่ 1 (Jetty 1) = 47P 0731358 UTM 1398172

: BOD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L

(1) สารแขวนลอย (Suspended Solids) มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกินผลรวมของค่าเฉลี่ย 1 วัน หรือ 1 เดือน หรือ 1 ปี บวกกับค่าเบี่ยงเบนมาตรฐานของค่าเฉลี่ยนั้น ๆ โดยค่าเฉลี่ย 1 วัน ให้วัดทุกชั่วโมง หรืออย่างน้อย 5 ครั้ง ที่ช่วงเวลาเท่า ๆ กัน ค่าเฉลี่ย 1 เดือน ให้วัดทุกวันหรืออย่างน้อย 4 ครั้ง ที่ช่วงเวลาเท่า ๆ กัน ใน 1 เดือน ณ เวลาเดียวกัน และค่าเฉลี่ย 1 ปี ให้วัดทุกเดือน ณ วันที่และเวลาเดียวกัน

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the National Environment Board (2021) (B.E. 2564); Class 5

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
15/05/25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
15/05/25

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TEST REPORT

Analysis No. : R25-1486

Received Date : 21/04/25

Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.

Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang Rayong 21150

Contact : -

Sample Conditions : 2504-WS0433 = clear

Report Date : 15/05/25

Analysis Date : 18-28/04/25

Job No. : S680051/Apr/3

Sampling Date : 18/04/25

Sampling By : TET

Type of Sample : Seawater

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2504-WS0433		
				หน้าท่าเทียบเรือที่ 2 (Jetty 2)		
1	pH	-	Electrometric Method (SM 4500 B)	8.20	7.0-8.5	18/04/25
2	SS	mg/L	Volumetric, Dried at 103-105 °C (SM 2540 F)	5.0	5.5 ⁽¹⁾	21/04/25
3	DO	mg/L	Membrane Electrode (SM 4500 G)	4.27	≥ 4.0	18/04/25
4	BOD	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	0.8	-	23-28/04/25
5	Oil & Grease	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	< 0.1	-	23/04/25
	Oil & Grease	-	Observation Method	not visible	not visible	18/04/25
6	NH ₃ -Nitrogen	µg-N/L	Distillation/Phenate Method (SM 4500-NH ₃ F)	< 10	-	24/04/25

Remarks : หน้าท่าเทียบเรือที่ 2 (Jetty 2) = 47P 0730907 UTM 1397734

: BOD มีค่าปริมาณค่าสุดท้ายที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L

(1) สารแขวนลอย (Suspended Solids) มีค่าเปลี่ยนแปลงเพิ่มขึ้นไม่เกินผลรวมของค่าเฉลี่ย 1 วัน หรือ 1 เดือน หรือ 1 ปี บวกกับค่าเบี่ยงเบนมาตรฐานของค่าเฉลี่ยนั้น ๆ โดยค่าเฉลี่ย 1 วัน ให้วัดทุกชั่วโมง หรืออย่างน้อย 5 ครั้ง ที่ช่วงเวลาเท่า ๆ กัน ค่าเฉลี่ย 1 เดือน ให้วัดทุกวันหรืออย่างน้อย 4 ครั้ง ที่ช่วงเวลาเท่า ๆ กัน ใน 1 เดือน ณ เวลาเดียวกัน และค่าเฉลี่ย 1 ปี ให้วัดทุกเดือน ณ วันที่และเวลาเดียวกัน

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the National Environment Board (2021) (B.E. 2564); Class 5

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
15/05/25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
15/05/25

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TEST REPORT

Analysis No. : R25-1486

Received Date : 21/04/25

Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.

Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang Rayong 21150

Sample Conditions : 2504-WS0433 (1/5) - 2504-WS0433 (5/5) = clear
2504-WS0434 (1/5) - 2504-WS0434 (5/5) = clear
2504-WS0435 (1/5) - 2504-WS0435 (5/5) = clear

Report Date : 15/05/25

Analysis Date : 21/04/25

Job No. : S680051/Apr/3

Sampling Date : 18/04/25

Sampling By : TET

Type of Sample : Seawater

Item	Sample No.	Sampling Point	Result	Analysis Date
			SS (mg/L)	
		แนวสะพานเดินเรือห่างจากชายฝั่งประมาณ 2 กม.		
1	2504-WS0433 (1/5)	ครั้งที่ 1	5.9	21/04/25
2	2504-WS0433 (2/5)	ครั้งที่ 2	5.7	21/04/25
3	2504-WS0433 (3/5)	ครั้งที่ 3	5.1	21/04/25
4	2504-WS0433 (4/5)	ครั้งที่ 4	5.7	21/04/25
5	2504-WS0433 (5/5)	ครั้งที่ 5	5.5	21/04/25
		หน้าท่าเทียบเรือที่ 1 (Jetty 1)		
6	2504-WS0434 (1/5)	ครั้งที่ 1	3.2	21/04/25
7	2504-WS0434 (2/5)	ครั้งที่ 2	2.4	21/04/25
8	2504-WS0434 (3/5)	ครั้งที่ 3	2.9	21/04/25
9	2504-WS0434 (4/5)	ครั้งที่ 4	2.8	21/04/25
10	2504-WS0434 (5/5)	ครั้งที่ 5	3.0	21/04/25
		หน้าท่าเทียบเรือที่ 2 (Jetty 2)		
11	2504-WS0435 (1/5)	ครั้งที่ 1	5.4	21/04/25
12	2504-WS0435 (2/5)	ครั้งที่ 2	5.6	21/04/25
13	2504-WS0435 (3/5)	ครั้งที่ 3	5.2	21/04/25
14	2504-WS0435 (4/5)	ครั้งที่ 4	5.4	21/04/25
15	2504-WS0435 (5/5)	ครั้งที่ 5	5.0	21/04/25

Remarks : แนวสะพานเดินเรือห่างจากชายฝั่งประมาณ 2 กม. = 47P 0731376 UTM 1400107

หน้าท่าเทียบเรือที่ 1 (Jetty 1) = 47P 0731358 UTM 1398172

หน้าท่าเทียบเรือที่ 2 (Jetty 2) = 47P 0730907 UTM 1397734

Method : SS - Volumetric, Dried at 103-105 °C (SM 2540 F)

: SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
15 / 05 / 25

Approved by

Mrs. Porntip Pethshee
Laboratory Manager
15 / 05 / 25

END OF REPORT

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TEST REPORT

Analysis No. : R25-1616
Received Date : 29/04/25
Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.
Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang Rayong 21150
Contact : -
Report Date : 08/05/25
Analysis Date : 26/04-08/05/25
Job No. : S680051/Apr/4
Sampling Date * : 26/04/25
Sampling By * : TET
Type of Sample : Wastewater
Sample Conditions : 2504-WW0589 = yellow turbid/slight black sediment/covered with oil slick/smell

Item	Parameter	Unit	Method	Result	Standard ⁽¹⁾⁽²⁾	Analysis Date
				2504-WW0589		
				จุดปล่อยน้ำจากระบบ API		
1	pH *	-	Electrometric Method (SM 4500 B)	7.97	5.5-9.0	26/04/25
2	TSS *	mg/L	Dried at 103-105 °C (SM 2540 D)	< 2.5	≤ 50	30/04/25
3	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	0.9	≤ 20	30/04-05/05/25
4	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.4	≤ 5	02/05/25
5	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.04	≤ 0.2	08/05/25
6	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.05	≤ 5.0	08/05/25

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: จุดปล่อยน้ำจากระบบ API = 47P 0731241 UTM 1402403

: BOD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard (1) Notification of the Ministry of Industry (2017) (B.E. 2560)

(2) Notification of the Ministry of Natural Resources and Environment (2016) (B.E. 2559)

Reviewed by

Ms. Wareerut Prachumdaeng

Chief of Laboratory

08/05/25



Approved by

Mrs. Porntip Pethshee

Laboratory Manager

08/05/25

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R25-1616/DIW
Received Date : 29/04/25
Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.
Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang Rayong 21150
Contact : -
Report Date : 08/05/25
Analysis Date : 26/04-05/05/25
Job No. : S680051/Apr/4
Sampling Date * : 26/04/25
Sampling By * : Mr. Kiattisak Wandee
Registration No. : ว-236-จ-0012
Type of Sample : Wastewater
Sample Conditions : 2504-WW0589 = yellow turbid/slight black sediment/covered with oil slick/smell

Item	Parameter	Unit	Method	Result	Standard	Analysis Date
				2504-WW0589		
				จุดปล่อยน้ำจากระบบ API		
1	pH *	-	Electrometric Method (SM 4500 B)	7.97	5.5-9.0	26/04/25
2	TSS *	mg/L	Dried at 103-105 °C (SM 2540 D)	< 2.5	≤ 50	30/04/25
3	BOD *	mg/L	5-Days BOD Test, Azide Modification Method (SM 5210 B)	0.9	≤ 20	30/04-05/05/25
4	Oil & Grease *	mg/L	Liquid-Liquid, Partition Gravimetric Method (SM 5520 B)	0.4	≤ 5	02/05/25
5	Pb	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.04	≤ 0.2	08/05/25
6	Zn	mg/L	Digestion, ICP-OES Method (SM 3030F and 3120B)	0.05	≤ 5.0	08/05/25

Remarks * "Test marked "Not TISI Accredited" in this Report are not included in the TISI Accreditation Schedule for our Laboratory"

: จุดปล่อยน้ำจากระบบ API = 47P 0731241 UTM 1402403
: BOD มีค่าปริมาณต่ำสุดที่สามารถรายงานเป็นตัวเลขได้ = 2 mg/L

Method : SM = Standard Method for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017

Standard : Notification of the Ministry of Industry (2017) (B.E. 2560)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
ว-236-จ-0002
08/05/25



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
ว-236-จ-0003
08/05/25

..... END OF REPORT

- PRIVATE LABORATORY REGISTERED NO. ว-236
- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R25-1590

Received Date : 28/04/25

Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.

Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang Rayong 21150

Contact : -

Report Date : 06/05/25

Analysis Date : 30/04-02/05/25

Job No. : S680051/Apr

Sampling By : TET

Type of Sample : Working Area

Sample No.	Sampling point	Parameter	Unit	Sampling Date	Result	Standard	Analysis Date
2504-AW0885	ขณะขนถ่ายสารเคมี บริเวณท่าเทียบเรือ (Jetty 2) ติดตัวบุคคล	Ethylene Dichloride	ppm	22/04/25	< 0.0012	50	30/04-02/05/25
		Ethylene Dichloride	ppm	22/04/25	< 0.0012	50	30/04-02/05/25

Method : Ethylene Dichloride - Solid Sorbent Tube, GC/FID (NIOSH 1003, Issue 3 :Mar 2003)

Standard : Notification of the Department of Labour Protection and Welfare. (2017) (B.E. 2560) (TLV-TWA)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
06/05/25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
06/05/25

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R25-1890
Received Date : 21/05/25
Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.
Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang Rayong 21150
Contact : -

Report Date : 27/05/25
Analysis Date : 22-23/05/25
Job No. : S680051/May/1
Sampling By : TET
Type of Sample : Working Area

Sample No.	Sampling point	Parameter	Unit	Sampling Date	Result	Standard	Analysis Date
2505-AW0777 (1/2)	ขณะขนถ่ายสารเคมี บริเวณท่าเทียบเรือ (Jetty 2)	Ethylene Dichloride	ppm	19/05/25	< 0.0012	50	22-23/05/25
2505-AW0777 (2/2)	ติดตัวบุคคล	Ethylene Dichloride	ppm	19/05/25	< 0.0012	50	22-23/05/25

Method : Ethylene Dichloride - Solid Sorbent Tube, GC/FID (NIOSH 1003, Issue 3 :Mar 2003)

Standard : Notification of the Department of Labour Protection and Welfare. (2017) (B.E. 2560) (TLV-TWA)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
27/05/25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
27/05/25

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R25-1267

Received Date : 02/04/25

Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.

Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150

Contact : -

Report Date : 09/04/25

Analysis Date : 03-04/04/25

Job No. : S680051/Apr/5

Sampling By : TET

Type of Sample : Working Area

Sample No.	Sampling point	Parameter	Unit	Sampling Date	Result	Standard ⁽¹⁾⁽²⁾	Analysis Date
2504-AW0062 (1/2)	ขณะขนถ่ายสารเคมี	Vinyl Chloride	ppm	01/04/25	< 0.0031	1	03-04/04/25
2504-AW0062 (2/2)	บริเวณท่าเทียบเรือ (Jetty 1)	Vinyl Chloride	ppm	01/04/25	< 0.0031	1	03-04/04/25

Method : Vinyl Chloride - Solid Sorbent Tube, GC/FID (NIOSH 1007, Issue 2 :Aug 1994)

Standard (1) Notification of the Department of Labour Protection and welfare. (2017) (B.E. 2560) (TLV-TWA)

(2) American Conference Governmental Industrial Hygienists; ACGIH (TLV-TWA)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory

09/04/25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager

09/04/25

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- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R25-1787

Received Date : 15/05/25

Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150

Contact : -

Report Date : 21/05/25

Analysis Date : 20/05/25

Job No. : S680051/May/2

Sampling By : TET

Type of Sample : Working Area

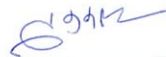
Sample No.	Sampling point	Parameter	Unit	Sampling Date	Result	Standard ⁽¹⁾⁽²⁾	Analysis Date
2505-AW0524 (1/2)	ขณะขนถ่ายสารเคมี บริเวณท่าเทียบเรือ (Jetty 1)	Vinyl Chloride	ppm	14/05/25	< 0.0031	1	20/05/25
2505-AW0524 (2/2)	ติดตัวบุคคล	Vinyl Chloride	ppm	14/05/25	< 0.0031	1	20/05/25

Method : Vinyl Chloride - Solid Sorbent Tube, GC/FID (NIOSH 1007, Issue 2 :Aug 1994)

Standard (1) Notification of the Department of Labour Protection and welfare. (2017) (B.E. 2560) (TLV-TWA)

(2) American Conference Governmental Industrial Hygienists; ACGIH (TLV-TWA)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
21/05/25

Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
21/05/25

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TEST REPORT

Analysis No. : R25-0573

Report Date : 27/02/25

Received Date : 21/02/25

Analysis Date : 25-26/02/25

Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.

Job No. : S680051/Feb/1

Sampling By : TET

Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150

Type of Sample : Working Area

Contact : -

Sample No.	Sampling point	Parameter	Unit	Sampling Date	Result	Standard	Analysis Date
2502-AW0852 (1/2)	ขณะขนถ่ายสารเคมี	1,3 Butadiene	ppm	20/02/25	< 0.009	1	25-26/02/25
2502-AW0852 (2/2)	ลานถังเก็บ 1,3 Butadiene	1,3 Butadiene	ppm	20/02/25	< 0.009	1	25-26/02/25

Method : 1,3 Butadiene - Solid Sorbent Tube, GC/FID (NIOSH 1024, Issue 2 :Aug 1994)

Standard : Notification of the Department of Labour Protection and Welfare. (2017) (B.E. 2560) (TLV-TWA)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
27/02/25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
27/02/25

..... END OF REPORT

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TEST REPORT

Analysis No. : R25-2083
Received Date : 09/06/25
Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.
Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150
Contact : -

Report Date : 12/06/25
Analysis Date : 09-10/06/25
Job No. : S680051/June/3
Sampling By : TET
Type of Sample : Working Area

Sample No.	Sampling point	Parameter	Unit	Sampling Date	Result	Standard	Analysis Date
2506-AW0313 (1/2)	ขณะขนถ่ายสารเคมี	1,3 Butadiene	ppm	06/06/25	< 0.009	1	09-10/06/25
2506-AW0313 (2/2)	ลานถังเก็บ 1,3 Butadiene	1,3 Butadiene	ppm	06/06/25	< 0.009	1	09-10/06/25

Method : 1,3 Butadiene - Solid Sorbent Tube, GC/FID (NIOSH 1024, Issue 2 :Aug 1994)

Standard : Notification of the Department of Labour Protection and Welfare. (2017) (B.E. 2560) (TLV-TWA)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
12 / 06 / 25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
12 / 06 / 25

..... END OF REPORT

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TEST REPORT

Analysis No. : R25-0575

Report Date : 27/02/25

Received Date : 21/02/25

Analysis Date : 25-26/02/25

Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.

Job No. : S680051/Feb/4

Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150

Sampling By : TET

Type of Sample : Working Area

Contact : -

Sample No.	Sampling point	Parameter	Unit	Sampling Date	Result	Standard	Analysis Date
2502-AW0854 (1/2)	ขณะขนถ่ายสารเคมี	1,3 Butadiene	ppm	20/02/25	< 0.009	1	25-26/02/25
2502-AW0854 (2/2)	สถานีขนถ่าย 1,3 Butadiene สรงรถบรรทุก	1,3 Butadiene	ppm	20/02/25	< 0.009	1	25-26/02/25

Method : 1,3 Butadiene - Solid Sorbent Tube, GC/FID (NIOSH 1024, Issue 2 :Aug 1994)

Standard : Notification of the Department of Labour Protection and Welfare. (2017) (B.E. 2560) (TLV-TWA)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
27/2/25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
27/2/25

..... END OF REPORT

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TEST REPORT

Analysis No. : R25-2082
Received Date : 09/06/25
Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.
Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150
Contact : -

Report Date : 12/06/25
Analysis Date : 09-10/06/25
Job No. : S680051/June/1
Sampling By : TET
Type of Sample : Working Area

Sample No.	Sampling point	Parameter	Unit	Sampling Date	Result	Standard	Analysis Date
2506-AW0312 (1/2)	ขณะขนถ่ายสารเคมี	1,3 Butadiene	ppm	06/06/25	< 0.009	1	09-10/06/25
2506-AW0312 (2/2)	สถานีขนถ่าย 1,3 Butadiene ลงรถบรรทุก ติดตัวบุคคล	1,3 Butadiene	ppm	06/06/25	< 0.009	1	09-10/06/25

Method : 1,3 Butadiene - Solid Sorbent Tube, GC/FID (NIOSH 1024, Issue 2 :Aug 1994)

Standard : Notification of the Department of Labour Protection and Welfare. (2017) (B.E. 2560) (TLV-TWA)

Reviewed by



Ms. Wareerut Prachumdaeng
Chief of Laboratory
12 / 06 / 25



Approved by



Mrs. Porntip Pethshee
Laboratory Manager
12 / 06 / 25

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R25-0574

Report Date : 27/02/25

Received Date : 21/02/25

Analysis Date : 25-26/02/25

Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.

Job No. : S680051/Feb/2

Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150

Sampling By : TET

Type of Sample : Working Area

Contact : -

Sample No.	Sampling point	Parameter	Unit	Sampling Date	Result	Standard	Analysis Date
2502-AW0853 (1/2)	ขณะขนถ่ายสารเคมี บริเวณท่าเทียบเรือ (Jetty 1)	1,3 Butadiene	ppm	20/02/25	< 0.009	1	25-26/02/25
2502-AW0853 (2/2)	ติดตัวบุคคล	1,3 Butadiene	ppm	20/02/25	< 0.009	1	25-26/02/25

Method : 1,3 Butadiene - Solid Sorbent Tube, GC/FID (NIOSH 1024, Issue 2 :Aug 1994)

Standard : Notification of the Department of Labour Protection and Welfare. (2017) (B.E. 2560) (TLV-TWA)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
27/2/25



Approved by

Mrs. Porntip Pethshee
Laboratory Manager
27/2/25

..... END OF REPORT

- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL

TEST REPORT

Analysis No. : R25-2258
 Received Date : 17/06/25
 Customer : Technical Division of Thai Environmental Technic Limited
 For PTT Global Chemical Public Company Limited.
 Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
 Map Ta Phut, Mueang, Rayong 21150
 Contact : -

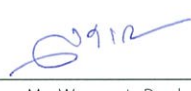
Report Date : 20/06/25
 Analysis Date : 17-18/06/25
 Job No. : S680051/June/4
 Sampling By : TET
 Type of Sample : Working Area

Sample No.	Sampling point	Parameter	Unit	Sampling Date	Result	Standard	Analysis Date
2506-AW0779 (1/2)	ขณะขนถ่ายสารเคมี บริเวณท่าเทียบเรือ (Jetty 1)	1,3 Butadiene	ppm	16/06/25	< 0.009	1	17-18/06/25
2506-AW0779 (2/2)	ติดตัวบุคคล	1,3 Butadiene	ppm	16/06/25	< 0.009	1	17-18/06/25

Method : 1,3 Butadiene - Solid Sorbent Tube, GC/FID (NIOSH 1024, Issue 2 :Aug 1994)


Standard : Notification of the Department of Labour Protection and Welfare. (2017) (B.E. 2560) (TLV-TWA)

Reviewed by


 Ms. Wareerut Prachumdaeng
 Chief of Laboratory
 16 / 06 / 25



Approved by


 Mrs. Pornpip Pethshee
 Laboratory Manager
 16 / 06 / 25

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- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R25-0576
Received Date : 21/02/25
Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.
Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150
Contact : -

Report Date : 27/02/25
Analysis Date : 25-26/02/25
Job No. : S680051/Feb/5
Sampling By : TET
Type of Sample : Working Area

Sample No.	Sampling point	Parameter	Unit	Sampling Date	Result	Standard	Analysis Date
2502-AW0855 (1/2)	ขณะขนถ่ายสารเคมี	1,3 Butadiene	ppm	20/02/25	< 0.009	1	25-26/02/25
2502-AW0855 (2/2)	ลานถังเก็บ Multi-Purpose	1,3 Butadiene	ppm	20/02/25	< 0.009	1	25-26/02/25

Method : 1,3 Butadiene - Solid Sorbent Tube, GC/FID (NIOSH 1024, Issue 2 :Aug 1994)

Standard : Notification of the Department of Labour Protection and Welfare. (2017) (B.E. 2560) (TLV-TWA)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
17/02/25



Approved by

Mrs. Pornpip Pethshee
Laboratory Manager
17/02/25

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- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
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TEST REPORT

Analysis No. : R25-2081

Report Date : 12/06/25

Received Date : 09/06/25

Analysis Date : 09-10/06/25

Customer : Technical Division of Thai Environmental Technic Limited
For PTT Global Chemical Public Company Limited.

Job No. : S680051/June/2

Address : 19, Map Ta Phut Industrial Estate, Rong Pui Road,
Map Ta Phut, Mueang, Rayong 21150

Sampling By : TET

Type of Sample : Working Area

Contact : -

Sample No.	Sampling point	Parameter	Unit	Sampling Date	Result	Standard	Analysis Date
2506-AW0311 (1/2)	ขณะขนถ่ายสารเคมี	1,3 Butadiene	ppm	06/06/25	< 0.009	1	09-10/06/25
2506-AW0311 (2/2)	ลานถังเก็บ Multi-Purpose	1,3 Butadiene	ppm	06/06/25	< 0.009	1	09-10/06/25

Method : 1,3 Butadiene - Solid Sorbent Tube, GC/FID (NIOSH 1024, Issue 2 :Aug 1994)

Standard : Notification of the Department of Labour Protection and Welfare. (2017) (B.E. 2560) (TLV-TWA)

Reviewed by

Ms. Wareerut Prachumdaeng
Chief of Laboratory
12 / 06 / 25

Approved by

Mrs. Porntip Pethshee
Laboratory Manager
12 / 06 / 25

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- REPORTED RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY
- DO NOT COPY PARTIAL OF THIS ANALYSIS REPORT WITHOUT OFFICIAL APPROVAL