

Request No. LA66-0905

Report No. 6609-0154

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch16
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
 Amphur Muang Rayong, Rayong 21150
 SAMPLE SOURCE : EA Plant
 SAMPLE POINT : ปล่อง Ammonia Vent Scrubber SAMPLE NO. : 04436
 SAMPLING DATE : 29/08/2023 SAMPLING TIME : 10:00-10:55
 RECEIVED DATE : 04/09/2023 REPORTED DATE : 19/09/2023
 TESTED DATE : 04-18/09/2023

STACK DESCRIPTION

Height :	14.00	m	Type of Process :	Exhaust
Diameter :	0.15	m	Type of Fuel :	-
Temperature :	30.00	°C	Oxygen Content :	20.90 %
Air Velocity :	1.56	m/s	Barometric Pressure :	757.75 mmHg
Flow rate ² :	0.03	m ³ /s	Atmospheric Temperature :	31.00 °C
Moisture Content :	4.89	%		

PARAMETER	TEST METHOD	TIME	RESULT ²	STD ¹	UNIT
Ammonia ¹	U.S.EPA Method CTM 027	10:00-10:55	1.424	35	mg/m ³
(NH ₃)			2.044	50	ppm

REMARK:

- ¹ ค่ากำหนดตามรายงานการประเมินผลกระทบสิ่งแวดล้อม (EIA)
- ² Standard Condition (Temperature 25°C, Pressure 760 mmHg) and Dry Basis
- ³ Sampling by Eastern Thai Consulting 1992 Co.,Ltd. (Mr.Teerapong Nualin)

Analysed By SECOT Co.,Ltd.

Sampling at UTM 47P 731282E 1404902N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By Thongchai Boonsak

(Mr. Thongchai Boonsak)

19/09/2023

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

Request No. LA66-R0918

Report No. R6609-0270

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
 Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 SAMPLE SOURCE : EA Plant
 SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
 PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , L_{90} & L_{dn} SAMPLE NO. : 27120
 DETERMINATION METHOD : ISO 1996-1:2016 MEASURING DATE : 28-29/08/2023
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 04/09/2023
 S/N 00230985 : Class 1 REPORTED DATE : 09/09/2023

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 ^{1/3}	63.3	88.2	60.0	dB(A)
12:00 - 13:00	62.5	79.1	59.4	dB(A)
13:00 - 14:00	64.5	92.7	61.6	dB(A)
14:00 - 15:00	65.1	91.4	61.6	dB(A)
15:00 - 16:00	61.3	84.9	59.4	dB(A)
16:00 - 17:00	61.9	91.3	59.6	dB(A)
17:00 - 18:00	62.8	92.9	58.3	dB(A)
18:00 - 19:00	60.6	80.6	59.3	dB(A)
19:00 - 20:00	63.3	98.0	58.2	dB(A)
20:00 - 21:00	60.9	90.5	58.7	dB(A)
21:00 - 22:00	58.6	65.9	58.0	dB(A)
22:00 - 23:00	58.5	66.2	57.9	dB(A)
23:00 - 00:00	58.2	69.2	57.7	dB(A)
00:00 - 01:00	58.3	61.3	57.9	dB(A)
01:00 - 02:00	58.6	63.7	58.1	dB(A)
02:00 - 03:00	58.7	64.0	58.1	dB(A)
03:00 - 04:00	58.9	62.1	58.3	dB(A)
04:00 - 05:00	58.9	63.6	58.4	dB(A)
05:00 - 06:00	59.0	66.9	58.4	dB(A)
06:00 - 07:00	59.2	69.9	58.5	dB(A)
07:00 - 08:00	60.0	74.5	58.9	dB(A)
08:00 - 09:00	61.9	80.4	59.3	dB(A)
09:00 - 10:00	65.3	89.2	60.4	dB(A)
10:00 - 11:00	63.5	92.2	58.8	dB(A)
L_{eq} 24 hr.	61.6	-	-	dB(A)
L_{dn}	66.0	-	-	dB(A)
Maximum	-	98.0	-	dB(A)
Standard	70 ^{1/1} , 70 ^{2/3}	115 ^{1/1} , 115 ^{2/2}	-	dB(A)

REMARK : ^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)^{1/2} 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 Photankhum)^{1/3} Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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

Request No. LA66-R0918

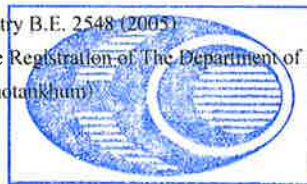
Report No. R6609-0271

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
 Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 SAMPLE SOURCE : EA Plant
 SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
 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 00230985 : Class 1

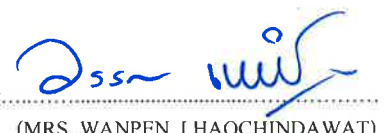
SAMPLE NO. : 27121
 MEASURING DATE : 29-30/08/2023
 RECEIVED DATE : 04/09/2023
 REPORTED DATE : 09/09/2023

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 ^{1/3}	60.7	85.2	57.6	dB(A)
12:00 - 13:00	57.7	82.7	55.6	dB(A)
13:00 - 14:00	63.9	83.4	60.1	dB(A)
14:00 - 15:00	63.1	93.1	60.2	dB(A)
15:00 - 16:00	64.0	96.8	59.5	dB(A)
16:00 - 17:00	62.8	85.0	59.7	dB(A)
17:00 - 18:00	60.5	85.1	58.2	dB(A)
18:00 - 19:00	61.8	96.3	58.2	dB(A)
19:00 - 20:00	58.7	85.0	57.7	dB(A)
20:00 - 21:00	58.9	74.1	58.0	dB(A)
21:00 - 22:00	59.2	72.2	58.6	dB(A)
22:00 - 23:00	59.5	71.6	58.8	dB(A)
23:00 - 00:00	59.1	63.1	58.5	dB(A)
00:00 - 01:00	58.9	62.2	58.4	dB(A)
01:00 - 02:00	58.7	65.5	58.1	dB(A)
02:00 - 03:00	59.0	62.5	58.3	dB(A)
03:00 - 04:00	58.8	64.2	58.2	dB(A)
04:00 - 05:00	59.1	61.3	58.5	dB(A)
05:00 - 06:00	59.2	69.3	58.6	dB(A)
06:00 - 07:00	59.2	80.6	58.6	dB(A)
07:00 - 08:00	60.3	72.1	59.3	dB(A)
08:00 - 09:00	62.8	81.7	60.4	dB(A)
09:00 - 10:00	64.8	95.7	60.8	dB(A)
10:00 - 11:00	65.9	88.0	61.1	dB(A)
L_{eq} 24 hr.	61.4	-	-	dB(A)
L_{dn}	66.1	-	-	dB(A)
Maximum	-	96.8	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

REMARK : ^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)^{1/2} 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 Photankhum)^{1/3} Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0272

TEST REPORT

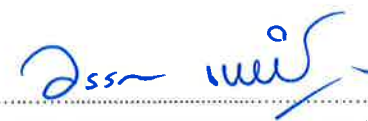
CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
 Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 SAMPLE SOURCE : EA Plant
 SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
 PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , L_{90} & L_{dn}
 DETERMINATION METHOD : ISO 1996-1:2016
 INSTRUMENT : Integrated Sound Level Meter
 S/N 00230985 : Class 1
 SAMPLE NO. : 27122
 MEASURING DATE : 30-31/08/2023
 RECEIVED DATE : 04/09/2023
 REPORTED DATE : 09/09/2023

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 ¹³	62.8	84.2	59.4	dB(A)
12:00 - 13:00	61.3	81.4	59.0	dB(A)
13:00 - 14:00	65.0	89.7	61.3	dB(A)
14:00 - 15:00	64.6	95.7	61.9	dB(A)
15:00 - 16:00	61.7	86.3	59.6	dB(A)
16:00 - 17:00	62.2	87.3	59.2	dB(A)
17:00 - 18:00	60.2	88.4	58.4	dB(A)
18:00 - 19:00	58.2	72.9	57.5	dB(A)
19:00 - 20:00	58.7	69.8	57.9	dB(A)
20:00 - 21:00	58.6	66.2	57.9	dB(A)
21:00 - 22:00	58.6	63.7	57.9	dB(A)
22:00 - 23:00	58.6	63.2	58.0	dB(A)
23:00 - 00:00	58.8	65.4	58.2	dB(A)
00:00 - 01:00	58.6	62.5	58.1	dB(A)
01:00 - 02:00	58.8	71.8	58.1	dB(A)
02:00 - 03:00	59.0	63.0	58.5	dB(A)
03:00 - 04:00	59.1	78.2	58.5	dB(A)
04:00 - 05:00	58.9	63.5	58.4	dB(A)
05:00 - 06:00	59.1	64.1	58.6	dB(A)
06:00 - 07:00	59.1	74.7	58.2	dB(A)
07:00 - 08:00	61.1	84.1	58.9	dB(A)
08:00 - 09:00	61.1	79.6	59.1	dB(A)
09:00 - 10:00	63.8	86.4	60.5	dB(A)
10:00 - 11:00	60.3	69.5	59.5	dB(A)
L_{eq} 24 hr.	60.9	-	-	dB(A)
L_{dn}	65.8	-	-	dB(A)
Maximum	-	95.7	-	dB(A)
Standard	70 ¹¹ , 70 ¹²	115 ¹¹ , 115 ¹²	-	dB(A)

REMARK : ¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)¹² 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 Photankhum)¹³ Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0273

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
 Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 SAMPLE SOURCE : EA Plant
 SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
 PARAMETER* : L_{eq} 1 hr., L_{eq} 24 hr., L_{max} , L_{90} & L_{dn} SAMPLE NO. : 27123
 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 00230985 : Class 1 REPORTED DATE : 09/09/2023

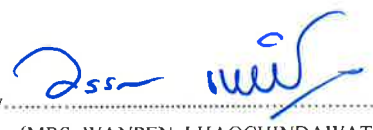
TIME \ DATE	31/08/2023-01/09/2023 (L_{eq})	31/08/2023-01/09/2023 (L_{max})	31/08/2023-01/09/2023 (L_{90})	UNIT
11:00 - 12:00 ³	59.5	72.6	58.5	dB(A)
12:00 - 13:00	59.3	68.2	58.5	dB(A)
13:00 - 14:00	59.4	70.7	58.5	dB(A)
14:00 - 15:00	58.4	67.4	57.8	dB(A)
15:00 - 16:00	61.9	80.1	57.9	dB(A)
16:00 - 17:00	60.0	85.6	58.1	dB(A)
17:00 - 18:00	58.2	65.7	57.5	dB(A)
18:00 - 19:00	59.0	73.4	58.1	dB(A)
19:00 - 20:00	58.9	73.8	58.2	dB(A)
20:00 - 21:00	58.8	67.4	58.2	dB(A)
21:00 - 22:00	58.7	65.8	58.2	dB(A)
22:00 - 23:00	58.6	66.1	58.1	dB(A)
23:00 - 00:00	58.1	71.2	57.6	dB(A)
00:00 - 01:00	57.2	68.9	56.6	dB(A)
01:00 - 02:00	58.3	66.6	57.8	dB(A)
02:00 - 03:00	56.7	64.2	56.3	dB(A)
03:00 - 04:00	57.2	62.7	56.8	dB(A)
04:00 - 05:00	58.4	60.7	58.1	dB(A)
05:00 - 06:00	58.6	61.8	58.2	dB(A)
06:00 - 07:00	58.6	76.9	57.6	dB(A)
07:00 - 08:00	58.3	71.0	57.2	dB(A)
08:00 - 09:00	63.5	86.2	60.1	dB(A)
09:00 - 10:00	63.5	82.5	60.7	dB(A)
10:00 - 11:00	64.0	86.7	60.8	dB(A)
L_{eq} 24 hr.	59.8	-	-	dB(A)
L_{dn}	64.9	-	-	dB(A)
Maximum	-	86.7	-	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)
 * 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)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0274

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
 Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 SAMPLE SOURCE : EA Plant
 SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
 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 00230985 : Class 1

SAMPLE NO. : 27124
 MEASURING DATE : 01-02/09/2023
 RECEIVED DATE : 04/09/2023
 REPORTED DATE : 09/09/2023

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}	62.9	79.9	60.1	dB(A)
12:00 - 13:00	59.5	75.2	58.3	dB(A)
13:00 - 14:00	61.3	80.0	59.3	dB(A)
14:00 - 15:00	61.3	81.5	59.3	dB(A)
15:00 - 16:00	62.7	82.2	59.4	dB(A)
16:00 - 17:00	59.3	75.6	58.4	dB(A)
17:00 - 18:00	58.9	74.4	58.0	dB(A)
18:00 - 19:00	59.9	85.5	58.5	dB(A)
19:00 - 20:00	60.2	71.4	59.4	dB(A)
20:00 - 21:00	59.5	69.9	58.8	dB(A)
21:00 - 22:00	59.4	65.3	58.7	dB(A)
22:00 - 23:00	59.2	65.6	58.5	dB(A)
23:00 - 00:00	59.6	62.9	58.9	dB(A)
00:00 - 01:00	59.9	68.0	59.1	dB(A)
01:00 - 02:00	59.6	67.0	59.0	dB(A)
02:00 - 03:00	59.7	75.0	59.0	dB(A)
03:00 - 04:00	59.0	64.0	58.4	dB(A)
04:00 - 05:00	59.0	67.2	58.5	dB(A)
05:00 - 06:00	58.7	71.5	58.1	dB(A)
06:00 - 07:00	58.6	77.4	57.9	dB(A)
07:00 - 08:00	58.9	70.5	58.1	dB(A)
08:00 - 09:00	61.3	77.2	58.3	dB(A)
09:00 - 10:00	62.6	92.1	59.4	dB(A)
10:00 - 11:00	61.4	72.1	60.3	dB(A)
L_{eq} 24 hr.	60.3	-	-	dB(A)
L_{dn}	65.9	-	-	dB(A)
Maximum	-	92.1	-	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)* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
 REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0918

Report No. R6609-0275

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
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 00230985 : Class 1

SAMPLE NO. : 27125
MEASURING DATE : 02-03/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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}	60.9	71.9	59.8	dB(A)
12:00 - 13:00	59.1	71.2	58.3	dB(A)
13:00 - 14:00	60.1	76.1	59.0	dB(A)
14:00 - 15:00	59.8	70.2	58.7	dB(A)
15:00 - 16:00	59.1	67.0	58.3	dB(A)
16:00 - 17:00	59.3	67.7	58.5	dB(A)
17:00 - 18:00	59.2	66.6	58.5	dB(A)
18:00 - 19:00	60.0	71.7	59.3	dB(A)
19:00 - 20:00	60.6	69.5	60.0	dB(A)
20:00 - 21:00	60.6	65.3	59.9	dB(A)
21:00 - 22:00	60.0	66.5	59.4	dB(A)
22:00 - 23:00	59.7	64.1	59.0	dB(A)
23:00 - 00:00	59.5	66.9	58.8	dB(A)
00:00 - 01:00	60.0	69.5	59.3	dB(A)
01:00 - 02:00	59.8	64.0	59.2	dB(A)
02:00 - 03:00	60.3	63.9	59.7	dB(A)
03:00 - 04:00	60.0	66.0	59.5	dB(A)
04:00 - 05:00	59.9	66.4	59.4	dB(A)
05:00 - 06:00	60.0	64.7	59.5	dB(A)
06:00 - 07:00	60.1	81.4	59.4	dB(A)
07:00 - 08:00	60.3	72.0	59.5	dB(A)
08:00 - 09:00	59.7	68.3	58.8	dB(A)
09:00 - 10:00	59.4	68.0	58.6	dB(A)
10:00 - 11:00	60.3	68.4	59.2	dB(A)
L_{eq} 24 hr.	59.9	-	-	dB(A)
L_{dn}	66.3	-	-	dB(A)
Maximum	-	81.4	-	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)* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)^{/3} Start Time

Approved By

(MRS. WANPEN LHAOCHINAWAT)

09/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

Request No. LA66-R0918

Report No. R6609-0276

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศใต้
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 00230985 : Class 1

SAMPLE NO. : 27126
MEASURING DATE : 03-04/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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}	60.1	67.4	59.1	dB(A)
12:00 - 13:00	60.7	66.5	59.8	dB(A)
13:00 - 14:00	60.6	72.6	59.5	dB(A)
14:00 - 15:00	60.9	68.0	60.0	dB(A)
15:00 - 16:00	60.8	66.0	59.9	dB(A)
16:00 - 17:00	61.2	69.1	60.2	dB(A)
17:00 - 18:00	61.2	69.0	60.3	dB(A)
18:00 - 19:00	61.5	73.0	60.6	dB(A)
19:00 - 20:00	62.2	68.8	61.4	dB(A)
20:00 - 21:00	62.1	66.3	61.4	dB(A)
21:00 - 22:00	61.7	64.7	61.0	dB(A)
22:00 - 23:00	61.4	67.2	60.7	dB(A)
23:00 - 00:00	61.3	66.4	60.7	dB(A)
00:00 - 01:00	60.8	71.3	60.2	dB(A)
01:00 - 02:00	60.8	64.6	60.2	dB(A)
02:00 - 03:00	60.9	63.2	60.4	dB(A)
03:00 - 04:00	60.9	64.1	60.3	dB(A)
04:00 - 05:00	61.0	67.7	60.4	dB(A)
05:00 - 06:00	61.0	65.8	60.5	dB(A)
06:00 - 07:00	60.7	74.6	60.1	dB(A)
07:00 - 08:00	61.3	86.5	60.2	dB(A)
08:00 - 09:00	64.4	87.1	60.6	dB(A)
09:00 - 10:00	65.4	89.3	62.0	dB(A)
10:00 - 11:00	66.8	94.2	62.7	dB(A)
L_{eq} 24 hr.	62.0	-	-	dB(A)
L_{dn}	67.7	-	-	dB(A)
Maximum	-	94.2	-	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)

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

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

Request No. LA66-R0918

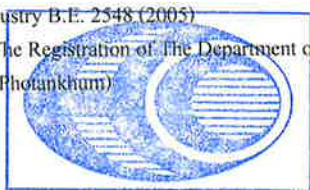
Report No. R6609-0277

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
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 00230991 : Class 1

SAMPLE NO. : 27127
MEASURING DATE : 28-29/08/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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}	65.2	70.4	65.0	dB(A)
12:00 - 13:00	65.1	68.8	64.9	dB(A)
13:00 - 14:00	65.2	67.6	64.9	dB(A)
14:00 - 15:00	65.2	66.7	64.8	dB(A)
15:00 - 16:00	65.1	68.2	64.8	dB(A)
16:00 - 17:00	65.0	67.8	64.7	dB(A)
17:00 - 18:00	65.0	69.2	64.8	dB(A)
18:00 - 19:00	65.0	66.5	64.8	dB(A)
19:00 - 20:00	65.1	66.4	64.9	dB(A)
20:00 - 21:00	65.2	67.1	65.0	dB(A)
21:00 - 22:00	65.3	66.9	65.0	dB(A)
22:00 - 23:00	65.2	66.8	64.9	dB(A)
23:00 - 00:00	65.1	66.6	64.9	dB(A)
00:00 - 01:00	65.2	66.9	65.0	dB(A)
01:00 - 02:00	65.3	66.8	65.1	dB(A)
02:00 - 03:00	65.3	66.9	65.0	dB(A)
03:00 - 04:00	65.2	67.7	65.0	dB(A)
04:00 - 05:00	65.2	66.7	64.9	dB(A)
05:00 - 06:00	65.1	68.0	64.8	dB(A)
06:00 - 07:00	65.1	67.5	64.9	dB(A)
07:00 - 08:00	65.2	69.1	64.9	dB(A)
08:00 - 09:00	65.2	67.1	64.9	dB(A)
09:00 - 10:00	65.2	66.6	64.9	dB(A)
10:00 - 11:00	65.1	66.4	64.8	dB(A)
L_{eq} 24 hr.	65.2	-	-	dB(A)
L_{dn}	71.6	-	-	dB(A)
Maximum	-	70.4	-	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)* 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)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0278

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
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 00230991 : Class 1

SAMPLE NO. : 27128
MEASURING DATE : 29-30/08/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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}	65.2	67.4	64.9	dB(A)
12:00 - 13:00	65.2	67.2	64.9	dB(A)
13:00 - 14:00	65.3	66.9	65.0	dB(A)
14:00 - 15:00	65.3	67.8	65.0	dB(A)
15:00 - 16:00	65.3	67.6	65.0	dB(A)
16:00 - 17:00	65.4	68.3	65.1	dB(A)
17:00 - 18:00	65.3	67.9	65.0	dB(A)
18:00 - 19:00	64.9	66.6	64.7	dB(A)
19:00 - 20:00	65.0	66.4	64.7	dB(A)
20:00 - 21:00	65.1	66.6	64.8	dB(A)
21:00 - 22:00	65.1	66.5	64.8	dB(A)
22:00 - 23:00	65.2	66.9	65.0	dB(A)
23:00 - 00:00	65.2	66.6	64.9	dB(A)
00:00 - 01:00	65.2	66.5	65.0	dB(A)
01:00 - 02:00	65.3	70.6	65.0	dB(A)
02:00 - 03:00	65.3	66.8	65.0	dB(A)
03:00 - 04:00	65.3	66.7	65.1	dB(A)
04:00 - 05:00	65.3	66.6	65.1	dB(A)
05:00 - 06:00	65.4	67.0	65.2	dB(A)
06:00 - 07:00	65.4	75.7	65.1	dB(A)
07:00 - 08:00	65.4	68.1	65.2	dB(A)
08:00 - 09:00	65.4	66.7	65.1	dB(A)
09:00 - 10:00	65.2	66.7	65.0	dB(A)
10:00 - 11:00	65.2	67.6	65.0	dB(A)
L_{eq} 24 hr.	65.2	-	-	dB(A)
L_{dn}	71.7	-	-	dB(A)
Maximum	-	75.7	-	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)* 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)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0279

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
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 00230991 : Class 1


SAMPLE NO. : 27129
MEASURING DATE : 30-31/08/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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}	65.2	68.6	64.9	dB(A)
12:00 - 13:00	66.1	81.9	64.9	dB(A)
13:00 - 14:00	65.3	70.0	65.0	dB(A)
14:00 - 15:00	65.3	71.6	65.1	dB(A)
15:00 - 16:00	65.3	67.9	65.0	dB(A)
16:00 - 17:00	65.3	68.5	65.0	dB(A)
17:00 - 18:00	65.3	68.2	65.0	dB(A)
18:00 - 19:00	65.3	66.8	65.0	dB(A)
19:00 - 20:00	65.3	66.9	65.1	dB(A)
20:00 - 21:00	65.2	66.9	65.0	dB(A)
21:00 - 22:00	65.3	66.8	65.1	dB(A)
22:00 - 23:00	65.4	66.9	65.1	dB(A)
23:00 - 00:00	65.4	67.5	65.2	dB(A)
00:00 - 01:00	65.4	66.9	65.1	dB(A)
01:00 - 02:00	65.5	66.7	65.2	dB(A)
02:00 - 03:00	65.5	67.2	65.2	dB(A)
03:00 - 04:00	65.5	67.0	65.2	dB(A)
04:00 - 05:00	65.5	67.2	65.3	dB(A)
05:00 - 06:00	65.6	68.2	65.3	dB(A)
06:00 - 07:00	65.4	67.1	65.2	dB(A)
07:00 - 08:00	65.5	67.7	65.3	dB(A)
08:00 - 09:00	65.5	73.1	65.2	dB(A)
09:00 - 10:00	65.3	66.7	65.0	dB(A)
10:00 - 11:00	65.0	66.9	64.8	dB(A)
L_{eq} 24 hr.	65.4	-	-	dB(A)
L_{dn}	71.9	-	-	dB(A)
Maximum	-	81.9	-	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 Photankhum)^{/3} Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0280

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
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 00230991 : Class 1

SAMPLE NO. : 27130
MEASURING DATE : 31/08/2023-01/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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}	65.2	66.4	64.9	dB(A)
12:00 - 13:00	65.2	66.6	65.0	dB(A)
13:00 - 14:00	65.2	69.6	65.0	dB(A)
14:00 - 15:00	65.1	67.2	64.8	dB(A)
15:00 - 16:00	65.1	69.3	64.8	dB(A)
16:00 - 17:00	65.2	66.7	64.9	dB(A)
17:00 - 18:00	65.2	66.7	64.9	dB(A)
18:00 - 19:00	65.3	66.8	65.1	dB(A)
19:00 - 20:00	65.4	67.3	65.1	dB(A)
20:00 - 21:00	65.3	66.8	65.0	dB(A)
21:00 - 22:00	65.3	66.7	65.1	dB(A)
22:00 - 23:00	65.3	66.8	65.1	dB(A)
23:00 - 00:00	65.4	67.4	65.1	dB(A)
00:00 - 01:00	65.3	66.7	65.1	dB(A)
01:00 - 02:00	65.4	67.1	65.3	dB(A)
02:00 - 03:00	65.4	66.8	65.2	dB(A)
03:00 - 04:00	65.3	66.9	65.2	dB(A)
04:00 - 05:00	65.4	66.7	65.2	dB(A)
05:00 - 06:00	65.4	68.3	65.2	dB(A)
06:00 - 07:00	65.4	66.7	65.2	dB(A)
07:00 - 08:00	65.4	68.5	65.2	dB(A)
08:00 - 09:00	65.3	68.9	65.1	dB(A)
09:00 - 10:00	65.4	73.4	65.2	dB(A)
10:00 - 11:00	65.2	73.0	64.9	dB(A)
L_{eq} 24 hr.	65.3	-	-	dB(A)
L_{dn}	71.8	-	-	dB(A)
Maximum	-	73.4	-	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)
* 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)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0281

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
 Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 SAMPLE SOURCE : EA Plant
 SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
 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 00230991 : Class 1

SAMPLE NO. : 27131
 MEASURING DATE : 01-02/09/2023
 RECEIVED DATE : 04/09/2023
 REPORTED DATE : 09/09/2023

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 ^{1/3}	65.2	67.2	65.0	dB(A)
12:00 - 13:00	65.2	66.8	65.0	dB(A)
13:00 - 14:00	65.3	66.6	65.0	dB(A)
14:00 - 15:00	65.4	67.1	65.1	dB(A)
15:00 - 16:00	65.3	69.2	65.0	dB(A)
16:00 - 17:00	65.3	66.9	65.1	dB(A)
17:00 - 18:00	65.3	67.1	65.0	dB(A)
18:00 - 19:00	65.3	70.4	65.0	dB(A)
19:00 - 20:00	65.4	67.2	65.1	dB(A)
20:00 - 21:00	65.4	67.1	65.2	dB(A)
21:00 - 22:00	65.4	66.7	65.1	dB(A)
22:00 - 23:00	65.4	66.9	65.1	dB(A)
23:00 - 00:00	65.5	66.8	65.2	dB(A)
00:00 - 01:00	65.5	67.0	65.2	dB(A)
01:00 - 02:00	65.5	67.0	65.2	dB(A)
02:00 - 03:00	65.5	67.1	65.3	dB(A)
03:00 - 04:00	65.4	67.0	65.2	dB(A)
04:00 - 05:00	65.4	66.8	65.1	dB(A)
05:00 - 06:00	65.4	67.1	65.2	dB(A)
06:00 - 07:00	65.5	67.1	65.2	dB(A)
07:00 - 08:00	65.4	66.9	65.2	dB(A)
08:00 - 09:00	65.5	68.9	65.2	dB(A)
09:00 - 10:00	65.4	66.7	65.1	dB(A)
10:00 - 11:00	65.2	66.7	64.9	dB(A)
L_{eq} 24 hr.	65.4	-	-	dB(A)
L_{dn}	71.8	-	-	dB(A)
Maximum	-	70.4	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

REMARK : ^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)^{1/2} 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 Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0282

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
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 00230991 : Class 1

SAMPLE NO. : 27132
MEASURING DATE : 02-03/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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}	65.2	66.7	64.9	dB(A)
12:00 - 13:00	65.3	66.7	65.0	dB(A)
13:00 - 14:00	65.4	66.9	65.1	dB(A)
14:00 - 15:00	65.4	66.9	65.1	dB(A)
15:00 - 16:00	65.5	67.0	65.2	dB(A)
16:00 - 17:00	65.4	66.8	65.1	dB(A)
17:00 - 18:00	65.2	66.8	64.9	dB(A)
18:00 - 19:00	65.2	66.6	64.9	dB(A)
19:00 - 20:00	65.3	66.8	65.1	dB(A)
20:00 - 21:00	65.5	66.7	65.2	dB(A)
21:00 - 22:00	65.4	67.5	65.2	dB(A)
22:00 - 23:00	65.5	66.9	65.2	dB(A)
23:00 - 00:00	65.5	67.1	65.2	dB(A)
00:00 - 01:00	65.5	67.0	65.3	dB(A)
01:00 - 02:00	65.5	67.1	65.2	dB(A)
02:00 - 03:00	65.5	67.2	65.3	dB(A)
03:00 - 04:00	65.5	66.9	65.3	dB(A)
04:00 - 05:00	65.4	66.9	65.2	dB(A)
05:00 - 06:00	65.4	66.9	65.2	dB(A)
06:00 - 07:00	65.5	67.3	65.3	dB(A)
07:00 - 08:00	65.6	66.9	65.3	dB(A)
08:00 - 09:00	65.4	71.0	65.2	dB(A)
09:00 - 10:00	65.4	66.9	65.1	dB(A)
10:00 - 11:00	65.4	68.6	65.1	dB(A)
L_{eq} 24 hr.	65.4	-	-	dB(A)
L_{dn}	71.9	-	-	dB(A)
Maximum	-	71.0	-	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)* 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)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0283

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE POINT : บริเวณริมรั้วด้านทิศเหนือ
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 00230991 : Class 1
SAMPLE NO. : 27133
MEASURING DATE : 03-04/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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 ^{1/3}	65.2	66.8	65.0	dB(A)
12:00 - 13:00	65.1	67.9	64.8	dB(A)
13:00 - 14:00	65.3	66.7	65.0	dB(A)
14:00 - 15:00	65.2	72.2	64.9	dB(A)
15:00 - 16:00	65.3	66.9	65.0	dB(A)
16:00 - 17:00	65.2	67.2	64.9	dB(A)
17:00 - 18:00	65.3	67.4	65.0	dB(A)
18:00 - 19:00	65.4	67.4	65.1	dB(A)
19:00 - 20:00	65.6	67.1	65.3	dB(A)
20:00 - 21:00	65.5	67.1	65.2	dB(A)
21:00 - 22:00	65.5	66.9	65.2	dB(A)
22:00 - 23:00	65.5	66.7	65.2	dB(A)
23:00 - 00:00	65.5	67.9	65.2	dB(A)
00:00 - 01:00	65.5	67.4	65.2	dB(A)
01:00 - 02:00	65.5	67.2	65.2	dB(A)
02:00 - 03:00	65.5	66.9	65.3	dB(A)
03:00 - 04:00	65.5	67.0	65.2	dB(A)
04:00 - 05:00	65.5	67.2	65.2	dB(A)
05:00 - 06:00	65.5	66.9	65.3	dB(A)
06:00 - 07:00	65.6	67.2	65.3	dB(A)
07:00 - 08:00	65.5	67.6	65.2	dB(A)
08:00 - 09:00	65.3	71.1	65.1	dB(A)
09:00 - 10:00	65.4	67.2	65.1	dB(A)
10:00 - 11:00	65.1	70.2	64.8	dB(A)
L_{eq} 24 hr.	65.4	-	-	dB(A)
L_{dn}	71.9	-	-	dB(A)
Maximum	-	72.2	-	dB(A)
Standard	$70^{1/1}, 70^{1/2}$	$115^{1/1}, 115^{1/2}$	-	dB(A)

REMARK : ^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)^{1/2} 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 Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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

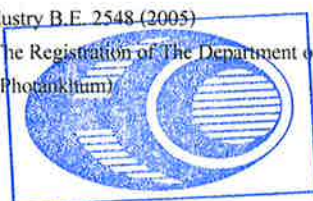
Request No. LA66-R0918

Report No. R6609-0263

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA 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 00230988 : Class 1
SAMPLE NO. : 27113
MEASURING DATE : 28-29/08/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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}	64.8	69.0	64.4	dB(A)
12:00 - 13:00	64.5	68.9	64.0	dB(A)
13:00 - 14:00	63.9	68.4	63.4	dB(A)
14:00 - 15:00	62.4	67.5	61.9	dB(A)
15:00 - 16:00	62.3	69.6	61.9	dB(A)
16:00 - 17:00	62.7	67.5	62.3	dB(A)
17:00 - 18:00	63.1	68.3	62.7	dB(A)
18:00 - 19:00	63.2	68.1	62.8	dB(A)
19:00 - 20:00	63.8	68.2	63.5	dB(A)
20:00 - 21:00	63.2	68.2	62.9	dB(A)
21:00 - 22:00	62.9	67.6	62.6	dB(A)
22:00 - 23:00	62.8	67.3	62.6	dB(A)
23:00 - 00:00	62.6	67.4	62.4	dB(A)
00:00 - 01:00	62.7	67.6	62.4	dB(A)
01:00 - 02:00	62.7	67.8	62.5	dB(A)
02:00 - 03:00	62.8	68.1	62.6	dB(A)
03:00 - 04:00	63.0	68.1	62.7	dB(A)
04:00 - 05:00	63.2	68.1	62.8	dB(A)
05:00 - 06:00	63.2	68.0	62.9	dB(A)
06:00 - 07:00	63.2	68.1	62.9	dB(A)
07:00 - 08:00	63.2	68.0	62.9	dB(A)
08:00 - 09:00	63.1	69.1	62.7	dB(A)
09:00 - 10:00	63.1	68.4	62.8	dB(A)
10:00 - 11:00	63.8	68.3	63.5	dB(A)
L_{eq} 24 hr.	63.2	-	-	dB(A)
L_{dn}	69.4	-	-	dB(A)
Maximum	-	69.6	-	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)

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0918

Report No. R6609-0264

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA 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 00230988 : Class 1

SAMPLE NO. : 27114
MEASURING DATE : 29-30/08/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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}	64.3	73.1	64.1	dB(A)
12:00 - 13:00	63.4	68.0	63.1	dB(A)
13:00 - 14:00	63.2	70.0	62.9	dB(A)
14:00 - 15:00	63.3	67.9	63.0	dB(A)
15:00 - 16:00	63.3	67.9	63.1	dB(A)
16:00 - 17:00	63.8	68.7	63.5	dB(A)
17:00 - 18:00	64.1	68.9	63.8	dB(A)
18:00 - 19:00	63.4	68.5	63.1	dB(A)
19:00 - 20:00	63.4	69.2	63.2	dB(A)
20:00 - 21:00	63.5	68.6	63.2	dB(A)
21:00 - 22:00	63.7	68.0	63.4	dB(A)
22:00 - 23:00	63.9	68.0	63.5	dB(A)
23:00 - 00:00	64.2	68.5	63.9	dB(A)
00:00 - 01:00	64.3	68.2	63.9	dB(A)
01:00 - 02:00	64.2	68.9	63.7	dB(A)
02:00 - 03:00	64.5	68.8	64.1	dB(A)
03:00 - 04:00	64.2	68.6	63.8	dB(A)
04:00 - 05:00	63.9	69.1	63.6	dB(A)
05:00 - 06:00	64.3	68.4	64.0	dB(A)
06:00 - 07:00	64.3	83.4	64.0	dB(A)
07:00 - 08:00	64.6	68.3	64.2	dB(A)
08:00 - 09:00	63.6	67.9	63.3	dB(A)
09:00 - 10:00	63.0	68.0	62.8	dB(A)
10:00 - 11:00	63.0	68.7	62.7	dB(A)
L_{eq} 24 hr.	63.8	-	-	dB(A)
L_{dn}	70.5	-	-	dB(A)
Maximum	-	83.4	-	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)* Parameter Outside The Scope of The Registration of The Department of Industrial Works
(Measurement By Mr. Tummarut Photankhum)^{/3} Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0265

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA 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 00230988 : Class 1

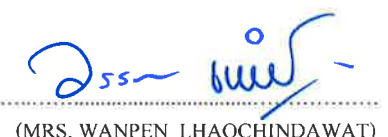
SAMPLE NO. : 27115
MEASURING DATE : 30-31/08/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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}	62.9	68.8	62.6	dB(A)
12:00 - 13:00	63.0	69.3	62.6	dB(A)
13:00 - 14:00	63.3	68.7	62.9	dB(A)
14:00 - 15:00	63.2	71.8	62.8	dB(A)
15:00 - 16:00	62.9	68.8	62.6	dB(A)
16:00 - 17:00	62.9	67.7	62.6	dB(A)
17:00 - 18:00	62.7	67.6	62.4	dB(A)
18:00 - 19:00	62.6	68.6	62.3	dB(A)
19:00 - 20:00	62.7	68.2	62.4	dB(A)
20:00 - 21:00	62.6	68.8	62.4	dB(A)
21:00 - 22:00	62.7	67.4	62.4	dB(A)
22:00 - 23:00	62.7	67.8	62.4	dB(A)
23:00 - 00:00	62.7	67.6	62.5	dB(A)
00:00 - 01:00	63.9	68.9	63.6	dB(A)
01:00 - 02:00	63.1	68.0	62.8	dB(A)
02:00 - 03:00	62.8	68.1	62.5	dB(A)
03:00 - 04:00	62.8	67.8	62.5	dB(A)
04:00 - 05:00	62.8	68.2	62.5	dB(A)
05:00 - 06:00	62.8	68.0	62.5	dB(A)
06:00 - 07:00	62.7	67.8	62.4	dB(A)
07:00 - 08:00	62.7	67.6	62.4	dB(A)
08:00 - 09:00	63.2	68.8	62.8	dB(A)
09:00 - 10:00	62.7	68.2	62.4	dB(A)
10:00 - 11:00	62.4	66.9	62.1	dB(A)
L_{eq} 24 hr.	62.9	-	-	dB(A)
L_{dn}	69.3	-	-	dB(A)
Maximum	-	71.8	-	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 Photankhum)^{/3} Start Time

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By


 (MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0266

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA 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 00230988 : Class 1
SAMPLE NO. : 27116
MEASURING DATE : 31/08/2023-01/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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 ¹³	62.5	67.5	62.2	dB(A)
12:00 - 13:00	62.8	67.7	62.5	dB(A)
13:00 - 14:00	63.1	67.9	62.8	dB(A)
14:00 - 15:00	62.9	67.3	62.6	dB(A)
15:00 - 16:00	63.9	69.2	63.6	dB(A)
16:00 - 17:00	62.9	68.8	62.6	dB(A)
17:00 - 18:00	62.9	67.9	62.6	dB(A)
18:00 - 19:00	63.0	67.8	62.7	dB(A)
19:00 - 20:00	62.9	68.0	62.7	dB(A)
20:00 - 21:00	63.3	71.1	63.0	dB(A)
21:00 - 22:00	63.0	68.5	62.7	dB(A)
22:00 - 23:00	62.9	67.9	62.7	dB(A)
23:00 - 00:00	62.7	68.1	62.4	dB(A)
00:00 - 01:00	62.8	68.2	62.5	dB(A)
01:00 - 02:00	62.9	68.6	62.6	dB(A)
02:00 - 03:00	62.8	67.6	62.5	dB(A)
03:00 - 04:00	62.8	68.2	62.6	dB(A)
04:00 - 05:00	62.9	68.1	62.7	dB(A)
05:00 - 06:00	63.0	68.5	62.8	dB(A)
06:00 - 07:00	62.9	67.9	62.6	dB(A)
07:00 - 08:00	62.8	67.9	62.5	dB(A)
08:00 - 09:00	62.9	68.3	62.7	dB(A)
09:00 - 10:00	62.8	70.0	62.5	dB(A)
10:00 - 11:00	63.0	68.8	62.7	dB(A)
L_{eq} 24 hr.	62.9	-	-	dB(A)
L_{dn}	69.3	-	-	dB(A)
Maximum	-	71.1	-	dB(A)
Standard	70 ¹¹ , 70 ¹²	115 ¹¹ , 115 ¹²	-	dB(A)

REMARK : ¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)¹² 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 Photankhum)

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

¹³ Start Time

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0267

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
 Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 SAMPLE SOURCE : EA 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 00230988 : Class 1

SAMPLE NO. : 27117
 MEASURING DATE : 01-02/09/2023
 RECEIVED DATE : 04/09/2023
 REPORTED DATE : 09/09/2023

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 ^{1/3}	63.3	68.5	63.0	dB(A)
12:00 - 13:00	63.3	68.0	63.0	dB(A)
13:00 - 14:00	63.3	68.8	63.0	dB(A)
14:00 - 15:00	63.5	68.2	63.2	dB(A)
15:00 - 16:00	63.4	68.8	63.1	dB(A)
16:00 - 17:00	63.2	67.6	62.9	dB(A)
17:00 - 18:00	63.0	67.9	62.7	dB(A)
18:00 - 19:00	63.0	68.5	62.7	dB(A)
19:00 - 20:00	63.2	67.8	62.9	dB(A)
20:00 - 21:00	63.3	67.3	63.1	dB(A)
21:00 - 22:00	63.3	67.7	63.1	dB(A)
22:00 - 23:00	63.3	67.3	63.0	dB(A)
23:00 - 00:00	63.3	68.9	63.1	dB(A)
00:00 - 01:00	63.4	68.4	63.1	dB(A)
01:00 - 02:00	63.4	67.6	63.1	dB(A)
02:00 - 03:00	63.3	68.0	63.0	dB(A)
03:00 - 04:00	63.3	67.8	63.0	dB(A)
04:00 - 05:00	63.3	68.0	63.0	dB(A)
05:00 - 06:00	63.5	68.6	63.2	dB(A)
06:00 - 07:00	64.7	68.5	64.5	dB(A)
07:00 - 08:00	63.8	68.3	63.6	dB(A)
08:00 - 09:00	63.6	77.5	63.3	dB(A)
09:00 - 10:00	63.5	70.1	63.2	dB(A)
10:00 - 11:00	63.0	67.0	62.7	dB(A)
L_{eq} 24 hr.	63.4	-	-	dB(A)
L_{dn}	69.9	-	-	dB(A)
Maximum	-	77.5	-	dB(A)
Standard	$70^{1/1}, 70^{2/2}$	$115^{1/1}, 115^{2/2}$	-	dB(A)

REMARK : ^{1/1} Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)^{2/2} 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 Photankhum)

บริษัท อีสเทิร์น ไทย คอนซัลติ้ง 1992 จำกัด

Approved By 
(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023

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

Request No. LA66-R0918

Report No. R6609-0268

TEST REPORT

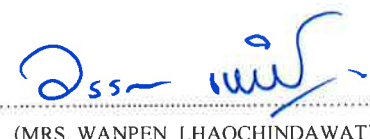
CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
 Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 SAMPLE SOURCE : EA Plant
 SAMPLE POINT : บริเวณริมรั้วด้านทิศตะวันตก
 PARAMETER* : L_{eq} 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 00230988 : Class 1

SAMPLE NO. : 27118
 MEASURING DATE : 02-03/09/2023
 RECEIVED DATE : 04/09/2023
 REPORTED DATE : 09/09/2023

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 ¹³	62.9	67.6	62.6	dB(A)
12:00 - 13:00	63.1	67.7	62.8	dB(A)
13:00 - 14:00	63.3	67.2	62.9	dB(A)
14:00 - 15:00	63.3	68.4	62.9	dB(A)
15:00 - 16:00	63.5	69.2	63.2	dB(A)
16:00 - 17:00	63.3	68.0	63.0	dB(A)
17:00 - 18:00	63.0	68.2	62.7	dB(A)
18:00 - 19:00	63.1	68.6	62.8	dB(A)
19:00 - 20:00	63.2	67.5	63.0	dB(A)
20:00 - 21:00	63.4	67.7	63.1	dB(A)
21:00 - 22:00	63.3	67.8	63.0	dB(A)
22:00 - 23:00	63.1	67.2	62.8	dB(A)
23:00 - 00:00	63.1	67.8	62.8	dB(A)
00:00 - 01:00	63.2	68.7	63.0	dB(A)
01:00 - 02:00	63.2	68.9	63.0	dB(A)
02:00 - 03:00	63.2	67.8	62.9	dB(A)
03:00 - 04:00	63.1	67.6	62.9	dB(A)
04:00 - 05:00	63.1	67.4	62.9	dB(A)
05:00 - 06:00	63.3	68.6	63.1	dB(A)
06:00 - 07:00	63.3	67.6	63.1	dB(A)
07:00 - 08:00	63.2	67.7	62.9	dB(A)
08:00 - 09:00	63.0	67.9	62.7	dB(A)
09:00 - 10:00	63.1	68.3	62.8	dB(A)
10:00 - 11:00	63.1	68.1	62.8	dB(A)
L_{eq} 24 hr.	63.2	-	-	dB(A)
L_{dn}	69.6	-	-	dB(A)
Maximum	-	69.2	-	dB(A)
Standard	$70^{11}, 70^{12}$	$115^{11}, 115^{12}$	-	dB(A)

REMARK : ¹¹ Notification of Office of The National Environmental Board Volume 15 B.E. 2540 (1997)¹² Notification of Ministry of the Industry B.E. 2548 (2005)¹³ 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)

09/09/2023

 บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
 REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
 THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
 WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0918

Report No. R6609-0269

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA 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 00230988 : Class 1

SAMPLE NO. : 27119
MEASURING DATE : 03-04/09/2023
RECEIVED DATE : 04/09/2023
REPORTED DATE : 09/09/2023

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}	63.1	68.0	62.7	dB(A)
12:00 - 13:00	63.2	68.0	62.8	dB(A)
13:00 - 14:00	63.2	68.3	62.9	dB(A)
14:00 - 15:00	63.3	68.8	62.9	dB(A)
15:00 - 16:00	63.3	68.5	63.0	dB(A)
16:00 - 17:00	63.4	68.2	63.0	dB(A)
17:00 - 18:00	63.3	68.2	63.0	dB(A)
18:00 - 19:00	63.3	68.1	63.0	dB(A)
19:00 - 20:00	63.4	70.2	63.1	dB(A)
20:00 - 21:00	63.5	70.4	63.3	dB(A)
21:00 - 22:00	63.7	70.9	63.4	dB(A)
22:00 - 23:00	64.5	68.3	64.3	dB(A)
23:00 - 00:00	63.6	68.3	63.3	dB(A)
00:00 - 01:00	63.4	68.4	63.1	dB(A)
01:00 - 02:00	63.4	68.4	63.1	dB(A)
02:00 - 03:00	63.3	67.7	63.1	dB(A)
03:00 - 04:00	63.2	68.1	63.0	dB(A)
04:00 - 05:00	63.4	68.8	63.1	dB(A)
05:00 - 06:00	63.8	68.7	63.5	dB(A)
06:00 - 07:00	63.3	68.9	63.0	dB(A)
07:00 - 08:00	63.1	67.9	62.9	dB(A)
08:00 - 09:00	63.2	68.0	62.9	dB(A)
09:00 - 10:00	63.1	70.1	62.8	dB(A)
10:00 - 11:00	62.9	67.5	62.5	dB(A)
L_{eq} 24 hr.	63.4	-	-	dB(A)
L_{dn}	69.9	-	-	dB(A)
Maximum	-	70.9	-	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 Photankhum)^{/3} Start Time

Approved By

(MRS. WANPEN LHAOCHINDAWAT)

09/09/2023


บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY

TEST REPORT


Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66071276
Sample Name : จุกระบายน้ำฝนจาก Storm Water Diversion (TK-301)** Sampling Date : 12/07/2023**
Sampling By : ETC** Sampling Time : 10:05 AM**
Sampling Method : Grab** Received Date : 13/07/2023
Tested Date : 13/07/2023 – 25/07/2023 Reported Date : 25/07/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	20.4
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	77
pH (on site) *		Electrometric Method	8.1
Temperature *	°C	Laboratory and Field Method	30
Total Dissolved Solids #	mg/L	Dried at 180 °C (SM:2540C)	62
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	22
Total Suspended Solids #	mg/L	Dried at 103-105 °C (SM:2540 D)	15

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. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (จ-003-ก-7279)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731235 E 1404859 N

Examined By 
(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
25 / 07 / 2023



Approved By 
(Miss Nunnaphat Bakhuntod)
(จ-003-ก-4367)
25 / 07 / 2023

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

Request No : W6607350

Report No : 6607-2064

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุลระบายน้ำฝนจาก Storm Water Diversion (TK-301)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 13/07/2023 – 25/07/2023
Sample No. : W 66071276
Sampling Date : 12/07/2023
Sampling Time : 10:05 AM
Received Date : 13/07/2023
Reported Date : 25/07/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH3 B,4500 -NH3 C)	13
Formaldehyde	mg/L	Distillation,Colorimetric Method	0.09
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.3

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/L]
4. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
5. Sampling By Mr. Songpon Phiwuan (ว-003-ค-7279)
6. Sampling at UTM 47 P 731235 E 1404859 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By

(Miss Apiradee Chuen-arom)

25 / 07 / 2023


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

TEST REPORT


Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66080917
Sample Name : จุดระบายน้ำฝนจาก Storm Water Diversion (TK-301)** Sampling Date : 09/08/2023**
Sampling By : ETC** Sampling Time : 9:30 AM**
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
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	22.8
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	51
pH (on site) *		Electrometric Method	9.0
Temperature *	°C	Laboratory and Field Method	30
Total Dissolved Solids #	mg/L	Dried at 180 °C (SM:2540C)	61
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	13
Total Suspended Solids #	mg/L	Dried at 103-105 °C (SM:2540 D)	17

Physical Apperance : 1. Sample : greenish, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L]
Remark : 1. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ค-0017)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731235 E 1404859 N

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



Approved By 
(Miss Nunnaphat Bakhuntod)
(จ-003-ค-0005)
22 / 08 / 2023

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

Request No : W6608250

Report No : 6608-2327

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุลินทรีย์น้ำฝนจาก Storm Water Diversion (TK-301)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 10/08/2023 – 22/08/2023
Sample No. : W 66080917
Sampling Date : 09/08/2023
Sampling Time : 9:30 AM
Received Date : 10/08/2023
Reported Date : 22/08/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B, 4500 -NH ₃ C)	8
Formaldehyde	mg/L	Distillation, Colorimetric Method	0.01
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.5

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

Remark :
1. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/L]
4. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
5. Sampling By Mr. Parkpoom Buasawad
6. Sampling at UTM 47 P 731235 E 1404859 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

22 / 08 / 2023

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

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant**
Sample Name : จุติระบายน้ำฝนจาก Storm Water Diversion (TK-301)**
Sampling By : ETC**
Sampling Method : Grab**
Tested Date : 14/09/2023 – 26/09/2023
Sample No. : W 66091369
Sampling Date : 13/09/2023**
Sampling Time : 9:35 AM**
Received Date : 14/09/2023
Reported Date : 26/09/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	13.9
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40
pH (on site) *		Electrometric Method	7.7
Temperature *	°C	Laboratory and Field Method	31
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	48
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	13
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	9

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

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

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

4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731235 E 1404859 N

Examined By

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

26 / 09 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Nunnahphat Bakhuntod)

(จ-003-ค-0005)

26 / 09 / 2023

REPORT 3D TESTS REFER TO SUBMITTED SAMPLES ONLY
THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL
WITHOUT THE WRITTEN APPROVAL LABORATORY



Request No : W6609365

Report No : 6609-2178

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุดระบายน้ำฝนจาก Storm Water Diversion (TK-301)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 14/09/2023 – 26/09/2023
Sample No. : W 66091369
Sampling Date : 13/09/2023
Sampling Time : 9:35 AM
Received Date : 14/09/2023
Reported Date : 26/09/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	15
Formaldehyde	mg/L	Distillation,Colorimetric Method	0.01
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.7

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/L]
4. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
5. Sampling By Mr. Parkpoom Buasawad
6. Sampling at UTM 47 P 731235 E 1404859 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

26 / 09 / 2023

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



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



TESTING
No.0159

Request No : W6610307

Report No : 6610-2099

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66101110
Sample Name : จุดระบายน้ำฝนจาก Storm Water Diversion (TK-301)** Sampling Date : 11/10/2023**
Sampling By : ETC** Sampling Time : 10:30 AM**
Sampling Method : Grab** Received Date : 12/10/2023
Tested Date : 12/10/2023 – 20/10/2023 Reported Date : 20/10/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	33.6
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	145
Formaldehyde *	mg/L	Distillation, Colorimetric Method	0.64
pH (on site) *		Electrometric Method	7.2
Temperature *	°C	Laboratory and Field Method	31
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	52
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	11
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	30

Physical Appearance : 1. Sample : green, lightly SS

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

Remark : 1. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. Miss Jiraporn Pankong is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ก-0016)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731235 E 1404859 N

Examined By.....

(Miss Jiraporn Pankong)

(จ-003-ก-0009)

20 / 10 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Miss Nunnaphat Bakhuntod)

(จ-003-ก-0005)

20 / 10 / 2023

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

Request No : W6610307

Report No : 6610-2099

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16

Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

Sampling Source : EA Plant

Sample Name : จุกระบายน้ำฝนจาก Storm Water Diversion (TK-301)

Sampling By : ETC

Sampling Method : Grab

Tested Date : 12/10/2023 – 20/10/2023

Sample No. : W 66101110

Sampling Date : 11/10/2023

Sampling Time : 10:30 AM

Received Date : 12/10/2023

Reported Date : 20/10/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	4
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	1.8

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

Remark : 1. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
4. Sampling By Mr. Songpon Phiwuan
5. Sampling at UTM 47 P 731235 E 1404859 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด



Examined By.....

(Miss Jiraporn Pankong)

20 / 10 / 2023

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

Request No : W6611413

Report No : 6611-2151

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66111409
Sample Name : จุติระบายน้ำฝนจาก Storm Water Diversion (TK-301)** Sampling Date : 15/11/2023**
Sampling By : ETC** Sampling Time : 9:48 AM**
Sampling Method : Grab** Received Date : 16/11/2023
Tested Date : 16/11/2023 – 22/11/2023 Reported Date : 22/11/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	47.9
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	166
pH (on site) *		Electrometric Method	6.6
Temperature *	°C	Laboratory and Field Method	29
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	55
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	25
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	83

Physical Apperance : 1. Sample : greenish, lightly SS
2. Container : Normal [PE 0.5 L, PE 1.0 L , PE 1.8 L, G 1.0 L]
Remark : 1. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (ว-003-ท-0036)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731235 E 1404859 N

Examined By



(Miss Apiradee Chuen-arom)

(ว-003-ท-0007)

22 / 11 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By



(Miss Nunnaphat Bakhuntod)

(ว-003-ท-0005)

22 / 11 / 2023

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

Request No : W6611413

Report No : 6611-2151

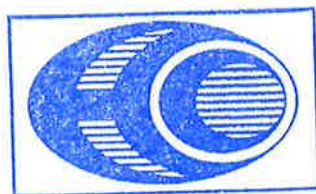
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุลินทรีย์ปนเปื้อนจาก Storm Water Diversion (TK-301)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 16/11/2023 – 22/11/2023
Sample No. : W 66111409
Sampling Date : 15/11/2023
Sampling Time : 9:48 AM
Received Date : 16/11/2023
Reported Date : 22/11/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	20
Formaldehyde	mg/L	Distillation,Colorimetric Method	0.02
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.5

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

Remark :
1. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/L]
4. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
5. Sampling By Miss Pornpinan Viriyakusolkul
6. Sampling at UTM 47 P 731235 E 1404859 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....
(Miss Apiradee Chuen-arom)

22 / 11 / 2023

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

Request No : W6607350

Report No : 6607-2065

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66071277
Sample Name : บ่อบำบัดน้ำเสีย Equalization Sump (TK-101)** Sampling Date : 12/07/2023**
Sampling By : ETC** Sampling Time : 10:10 AM**
Sampling Method : Grab** Received Date : 13/07/2023
Tested Date : 13/07/2023 – 25/07/2023 Reported Date : 25/07/2023

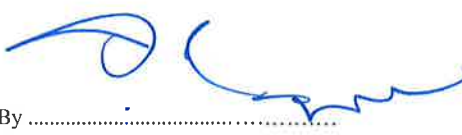
Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	860
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	1,533
Formaldehyde *	mg/L	Distillation, Colorimetric Method	2.23
pH (on site) *		Electrometric Method	9.4
Temperature *	°C	Laboratory and Field Method	32
Total Dissolved Solids #	mg/L	Dried at 180 °C (SM:2540C)	284
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	256
Total Suspended Solids #	mg/L	Dried at 103-105 °C (SM:2540 D)	< 5

Physical Appearance : 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. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ท-7279)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731233 E 1404850 N

Examined By 
(Miss Apiradee Chuen-arom)
(จ-003-ท-4377)
25 / 07 / 2023



Approved By 
(Mr. Kawee Suthasub)
(จ-003-ท-0004)
25 / 07 / 2023

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

Request No : W6607350

Report No : 6607-2065

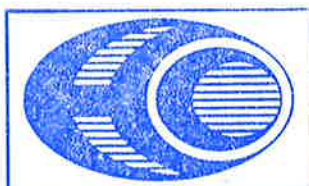
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : บ่อปรับสมดุล Equalization Sump (TK-101)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 13/07/2023 – 25/07/2023
Sample No. : W 66071277
Sampling Date : 12/07/2023
Sampling Time : 10:10 AM
Received Date : 13/07/2023
Reported Date : 25/07/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	10
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	1.5

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
4. Sampling By Mr. Songpon Phiwan (ว-003-ก-7279)
5. Sampling at UTM 47 P 731233 E 1404850 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด


Examined By.....

(Miss Apiradee Chuen-arom)

25 / 07 / 2023

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

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66080918
Sample Name : บ่อปรับสมดุล Equalization Sump (TK-101)** Sampling Date : 09/08/2023**
Sampling By : ETC** Sampling Time : 9:25 AM**
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
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	1,341
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	2,337
Formaldehyde *	mg/L	Distillation, Colorimetric Method	0.70
pH (on site) *		Electrometric Method	10.5
Temperature *	°C	Laboratory and Field Method	33
Total Dissolved Solids #	mg/L	Dried at 180 °C (SM:2540C)	25
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	393
Total Suspended Solids #	mg/L	Dried at 103-105 °C (SM:2540 D)	< 5

Physical Appearance : 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. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (ว-003-ค-0017)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731233 E 1404850 N

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

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

Request No : W6608250

Report No : 6608-2328

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : บ่อปรับสมดุล Equalization Sump (TK-101)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 10/08/2023 – 22/08/2023
Sample No. : W 66080918
Sampling Date : 09/08/2023
Sampling Time : 9:25 AM
Received Date : 10/08/2023
Reported Date : 22/08/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	26
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.1

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
4. Sampling By Mr. Parkpoom Buasawad
5. Sampling at UTM 47 P 731233 E 1404850 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

22 / 08 / 2023

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

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66091370
Sample Name : บ่อปรับสมดุล Equalization Sump (TK-101)** Sampling Date : 13/09/2023**
Sampling By : ETC** Sampling Time : 9:50 AM**
Sampling Method : Grab** Received Date : 14/09/2023
Tested Date : 14/09/2023 – 27/09/2023 Reported Date : 27/09/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	189
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	322
Formaldehyde *	mg/L	Distillation, Colorimetric Method	1.25
pH (on site) *		Electrometric Method	9.8
Temperature *	°C	Laboratory and Field Method	31
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540 D)	156
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	62
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	< 5

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

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

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

4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731233 E 1404850 N

Examined By

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

27 / 09 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Miss Nunnaphat Bakhuntod)

(จ-003-ค-0005)

27 / 09 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No : W6609365

Report No : 6609-2179

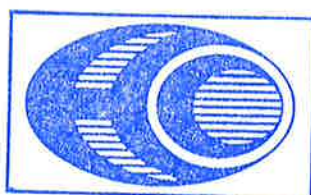
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : บ่อปรับสมดุล Equalization Sump (TK-101)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 14/09/2023 – 27/09/2023
Sample No. : W 66091370
Sampling Date : 13/09/2023
Sampling Time : 9:50 AM
Received Date : 14/09/2023
Reported Date : 27/09/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	2.22
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.3

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. LOQ = Level of Quantitation [LOQ of Ammonia = 2.43 mg/L, LOQ of Oil and Grease = 3.0 mg/L]
4. Sampling By Mr. Parkpoom Buasawad
5. Sampling at UTM 47 P 731233 E 1404850 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 

(Miss Apiradee Chuen-arom)

27 / 09 / 2023

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

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66101111
Sample Name : บ่อปรับสมดุล Equalization Sump (TK-101)** Sampling Date : 11/10/2023**
Sampling By : ETC** Sampling Time : 10:40 AM**
Sampling Method : Grab** Received Date : 12/10/2023
Tested Date : 12/10/2023 – 24/10/2023 Reported Date : 24/10/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	1,116
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	2,678
Formaldehyde *	mg/L	Distillation, Colorimetric Method	8.70
pH (on site) *		Electrometric Method	10.3
Temperature *	°C	Laboratory and Field Method	31
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540 D)	< 25
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	400
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	< 5

Physical Appearance : 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. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. Miss Jiraporn Pankong is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ก-0016)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731233 E 1404850 N

Examined By.....

(Miss Jiraporn Pankong)

(จ-003-ก-0009)

24 / 10 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Miss Nunnaphat Bakhuntod)

(จ-003-ก-0005)

24 / 10 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No : W6610307

Report No : 6610-2100

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : บ่อปรับสมดุล Equalization Sump (TK-101)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 12/10/2023 – 24/10/2023
Sample No. : W 66101111
Sampling Date : 11/10/2023
Sampling Time : 10:40 AM
Received Date : 12/10/2023
Reported Date : 24/10/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH3 B,4500 -NH3 C)	15
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	1.5

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L.]
4. Sampling By Mr. Songpon Phiwuan
5. Sampling at UTM 47 P 731233 E 1404850 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Jiraporn Pankong)

24 / 10 / 2023

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

Request No : W6611413

Report No : 6611-2152

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66111410
Sample Name : บ่อบำบัดน้ำเสีย Equalization Sump (TK-101)** Sampling Date : 15/11/2023**
Sampling By : ETC** Sampling Time : 9:51 AM**
Sampling Method : Grab** Received Date : 16/11/2023
Tested Date : 16/11/2023 – 27/11/2023 Reported Date : 27/11/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	1,748
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	3,048
Formaldehyde *	mg/L	Distillation, Colorimetric Method	7.16
pH (on site) *		Electrometric Method	10.4
Temperature *	°C	Laboratory and Field Method	34
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540 D)	< 25
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	606
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	< 5

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

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

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

4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731233 E 1404850 N

Examined By.....

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

27 / 11 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Miss Nunnaphat Bakhuntod)

(จ-003-ค-0005)

27 / 11 / 2023

REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No : W6611413

Report No : 6611-2152

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : บ่อปรับสมดุล Equalization Sump (TK-101)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 16/11/2023 – 27/11/2023
Sample No. : W 66111410
Sampling Date : 15/11/2023
Sampling Time : 9:51 AM
Received Date : 16/11/2023
Reported Date : 27/11/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH3 B,4500 -NH3 C)	12
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.1

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
4. Sampling By Miss Pornpinan Viriyakusolkul
5. Sampling at UTM 47 P 731233 E 1404850 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....
(Miss Apiradee Chuen-arom)

27 / 11 / 2023

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

Request No : W6612527

Report No : 6701-0007

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : บ่อปรับสมดุล Equalization Sump (TK-101)
Sampling By : Customer
Sampling Method : Grab
Tested Date : 21/12/2023 – 28/12/2023
Sample No. : W 66121664
Sampling Date : 20/12/2023
Sampling Time : 10:20 AM
Received Date : 21/12/2023
Reported Date : 03/01/2024


Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	15
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	1,187
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	2,124
Formaldehyde	mg/L	Distillation, Colorimetric Method	4.79
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.9
pH (on site)		Electrometric Method	10.4
Temperature	°C	Laboratory and Field Method	32
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540 D)	53
Total Kjeldahl Nitrogen	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	350
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	17

Physical Appearance : 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. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
3. Sampling at UTM 47 P 731233 E 1404850 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By: 
(Miss Apiradee Chuen-arom)

03 / 01 / 2024

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

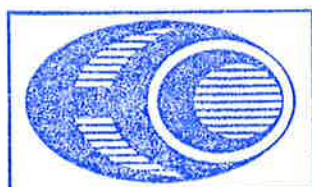
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66071278
Sample Name : จุลินทรีย์บำบัดจาก Neutralization Sump (TK-201)** Sampling Date : 12/07/2023**
Sampling By : ETC** Sampling Time : 9:50 AM**
Sampling Method : Grab** Received Date : 13/07/2023
Tested Date : 13/07/2023 – 25/07/2023 Reported Date : 25/07/2023


Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	576
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	1,070
Formaldehyde *	mg/L	Distillation, Colorimetric Method	0.51
pH (on site) *		Electrometric Method	4.8
Temperature *	°C	Laboratory and Field Method	30
Total Dissolved Solids #	mg/L	Dried at 180 °C (SM:2540C)	1,216
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	173
Total Suspended Solids #	mg/L	Dried at 103-105 °C (SM:2540 D)	9

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. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ค-7279)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731229 E 1404850 N

Examined By 
(Miss Apiradee Chuen-arom)
(จ-003-ค-4377)
25 / 07 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhuntod)
(จ-003-ค-4367)
25 / 07 / 2023

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

Request No : W6607350

Report No : 6607-2066

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
 Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 Sampling Source : EA Plant Sample No. : W 66071278
 Sample Name : จุลระบายนอกจาก Neutralization Sump (TK-201) Sampling Date : 12/07/2023
 Sampling By : ETC Sampling Time : 9:50 AM
 Sampling Method : Grab Received Date : 13/07/2023
 Tested Date : 13/07/2023 – 25/07/2023 Reported Date : 25/07/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B, 4500 -NH ₃ C)	16
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.5

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
 2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
 3. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
 4. Sampling By Mr. Songpon Phiwan (ว-003-ก-7279)
 5. Sampling at UTM 47 P 731229 E 1404850 N



บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

25 / 07 / 2023


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

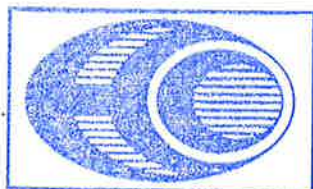
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66080919
Sample Name : จุดระบายออกจาก Neutralization Sump (TK-201)** Sampling Date : 09/08/2023**
Sampling By : ETC** Sampling Time : 9:15 AM**
Sampling Method : Grab** Received Date : 10/08/2023
Tested Date : 10/08/2023 – 28/08/2023 Reported Date : 28/08/2023


Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	687
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	2,417
Formaldehyde *	mg/L	Distillation, Colorimetric Method	2.07
pH (on site) *		Electrometric Method	6.6
Temperature *	°C	Laboratory and Field Method	33
Total Dissolved Solids #	mg/L	Dried at 180 °C (SM:2540C)	2,336
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	393
Total Suspended Solids #	mg/L	Dried at 103-105 °C (SM:2540 D)	5

Physical Appearance : 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. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ก-0017)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731229 E 1404850 N

Examined By 
(Miss Apiradee Chuen-arom)
(จ-003-ก-0007)
28 / 08 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Miss Nunnaphat Bakhuntod)
(จ-003-ก-0005)
28 / 08 / 2023

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

Request No : W6608250

Report No : 6608-2329

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุลินทรีย์ออกจาก Neutralization Sump (TK-201)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 10/08/2023 – 28/08/2023
Sample No. : W 66080919
Sampling Date : 09/08/2023
Sampling Time : 9:15 AM
Received Date : 10/08/2023
Reported Date : 28/08/2023


Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B, 4500 -NH ₃ C)	21
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.1

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
4. Sampling By Mr. Parkpoom Buasawad
5. Sampling at UTM 47 P 731229 E 1404850 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด


Examined By.....

(Miss Apiradee Chuen-arom)

28 / 08 / 2023

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

Request No : W6609365

Report No : 6609-2180

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66091371
Sample Name : จุลินทรีย์ออกจาก Neutralization Sump (TK-201)** Sampling Date : 13/09/2023**
Sampling By : ETC** Sampling Time : 9:45 AM**
Sampling Method : Grab** Received Date : 14/09/2023
Tested Date : 14/09/2023 – 27/09/2023 Reported Date : 27/09/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	147
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	271
Formaldehyde *	mg/L	Distillation, Colorimetric Method	0.93
pH (on site) *		Electrometric Method	6.3
Temperature *	°C	Laboratory and Field Method	32
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	340
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	48
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	< 5

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

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

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

4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731229 E 1404850 N

Examined By.....

(Miss Apiradee Chuen-arom)

(จ-003-ค-0007)

27 / 09 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Miss Nunnaphat Bakhuntod)

(จ-003-ค-0005)

27 / 09 / 2023

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

Request No : W6609365

Report No : 6609-2180

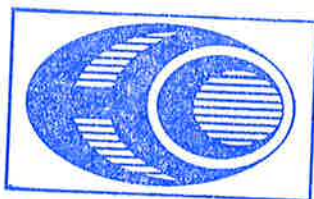
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุลินทรีย์ออกจาก Neutralization Sump (TK-201)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 14/09/2023 – 27/09/2023
Sample No. : W 66091371
Sampling Date : 13/09/2023
Sampling Time : 9:45 AM
Received Date : 14/09/2023
Reported Date : 27/09/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B, 4500 -NH ₃ C)	2.30
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.5

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. LOQ = Level of Quantitation [LOQ of Ammonia = 2.43 mg/L, LOQ of Oil and Grease = 3.0 mg/L]
4. Sampling By Mr. Parkpoom Buasawad
5. Sampling at UTM 47 P 731229 E 1404850 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....
(Miss Apiradee Chuen-arom)
27 / 09 / 2023

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

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66101112
Sample Name : จุลวิเคราะห์ออกจาก Neutralization Sump (TK-201)** Sampling Date : 11/10/2023**
Sampling By : ETC** Sampling Time : 10:20 AM**
Sampling Method : Grab** Received Date : 12/10/2023
Tested Date : 12/10/2023 – 24/10/2023 Reported Date : 24/10/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	1,124
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	2,186
Formaldehyde *	mg/L	Distillation, Colorimetric Method	5.11
pH (on site) *		Electrometric Method	8.4
Temperature *	°C	Laboratory and Field Method	34
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	1,612
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	347
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	6

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. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. Miss Jiraporn Pankong is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (จ-003-ก-0016)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731229 E 1404850 N

Examined By...
(Miss Jiraporn Pankong)
(จ-003-ก-0009)
24 / 10 / 2023



Approved By ...
(Miss Nunnaphat Bakhuntod)
(จ-003-ก-0005)
24 / 10 / 2023

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

Request No : W6610307

Report No : 6610-2101

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุลินทรีย์ออกจาก Neutralization Sump (TK-201)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 12/10/2023 – 24/10/2023
Sample No. : W 66101112
Sampling Date : 11/10/2023
Sampling Time : 10:20 AM
Received Date : 12/10/2023
Reported Date : 24/10/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B, 4500 -NH ₃ C)	9
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.9

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
4. Sampling By Mr. Songpon Phiwan
5. Sampling at UTM 47 P 731229 E 1404850 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Jiraporn Pankong)

24 / 10 / 2023

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

Request No : W6611413

Report No : 6611-2153

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66111411
Sample Name : จุลินทรีย์บำบัดน้ำเสีย Neutralization Sump (TK-201)** Sampling Date : 15/11/2023**
Sampling By : ETC** Sampling Time : 9:58 AM**
Sampling Method : Grab** Received Date : 16/11/2023
Tested Date : 16/11/2023 – 27/11/2023 Reported Date : 27/11/2023

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	1,504
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	3,187
Formaldehyde *	mg/L	Distillation, Colorimetric Method	6.35
pH (on site) *		Electrometric Method	3.0
Temperature *	°C	Laboratory and Field Method	34
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	3,036
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	623
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	< 5

Physical Appearance : 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. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-ค-0036)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731229 E 1404850 N

Examined By.....
(Miss Apiradee Chuen-arom)
(จ-003-ค-0007)
27 / 11 / 2023



Approved By.....
(Miss Nunnaphat Bakhuntod)
(จ-003-ค-0005)
27 / 11 / 2023

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

Request No : W6611413

Report No : 6611-2153

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุลินทรีย์ออกจาก Neutralization Sump (TK-201)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 16/11/2023 – 27/11/2023

Sample No. : W 66111411
Sampling Date : 15/11/2023
Sampling Time : 9:58 AM
Received Date : 16/11/2023
Reported Date : 27/11/2023

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH3 B,4500 -NH3 C)	11
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.3

Physical Appearance :
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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
4. Sampling By Miss Pornpinan Viriyakusolkul
5. Sampling at UTM 47 P 731229 E 1404850 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By 
(Miss Apiradee Chuen-arom)

27 / 11 / 2023

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


TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66121665
Sample Name : จุลวิเคราะห์น้ำออกจาก Neutralization Sump (TK-201)** Sampling Date : 20/12/2023**
Sampling By : ETC** Sampling Time : 10:10 AM**
Sampling Method : Grab** Received Date : 21/12/2023
Tested Date : 21/12/2023 – 28/12/2023 Reported Date : 03/01/2024

Parameter	Unit	Method	Result
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	426
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	1,785
Formaldehyde *	mg/L	Distillation, Colorimetric Method	3.82
pH (on site) *		Electrometric Method	4.6
Temperature *	°C	Laboratory and Field Method	32
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	1,674
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	307
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	< 5


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. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
2. Miss Apiradee Chuen-arom is Section Head / Mr. Kawee Suthasub is Technical Management.
3. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ค-0017)*
4. ** = These data are non laboratory data. / Sampling at UTM 47 P 731229 E 1404850 N

Examined By 
(Miss Apiradee Chuen-arom)
(จ-003-ค-0007)
03/01/2024



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By 
(Mr. Kawee Suthasub)
(จ-003-ค-0004)
03 / 01 / 2024

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

Request No : W6612527

Report No : 6701-0008

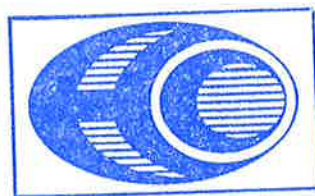
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุลินทรีย์จาก Neutralization Sump (TK-201)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 21/12/2023 – 28/12/2023
Sample No. : W 66121665
Sampling Date : 20/12/2023
Sampling Time : 10:10 AM
Received Date : 21/12/2023
Reported Date : 03/01/2024

Parameter	Unit	Method	Result
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	16
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.9

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. Parameter Outside The Scope of The Registration of Department of Industrial Works
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
4. Sampling By Mr. Parkpoom Buasawad
5. Sampling at UTM 47 P 731229 E 1404850 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด


Examined By.....

(Miss Apiradee Chuen-arom)

03/01/2024

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

TEST REPORT

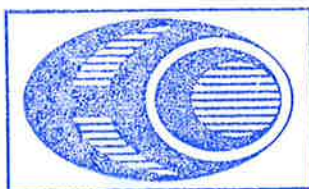
Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66071279
Sample Name : จุลินทรีย์บ่อบำบัดน้ำเสีย Final Check Basin (TK-601)** Sampling Date : 12/07/2023**
Sampling By : ETC** Sampling Time : 10:00 AM**
Sampling Method : Grab** Received Date : 13/07/2023
Tested Date : 13/07/2023 – 22/07/2023 Reported Date : 22/07/2023

Parameter	Unit	Method	Result	Standard ¹⁾
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	62.3	≤ 500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	172	≤ 750
pH (on site) *		Electrometric Method	7.4	5.5-9.0
Temperature *	°C	Laboratory and Field Method	31	≤ 45
Total Dissolved Solids #	mg/L	Dried at 180 °C (SM:2540C)	624	≤ 3000
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	39	≤ 100
Total Suspended Solids #	mg/L	Dried at 103-105 °C (SM:2540 D)	35	≤ 200

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 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)
2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (จ-003-ก-7279)*
5. ** = These data are non laboratory data. / Sampling at UTM 47 P 731233 E 1404844 N

Examined By.....
(Miss Apiradee Chuen-arom)
(จ-003-ก-4377)
22 / 07 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(Miss Nunnaphat Bakhuntod)
(จ-003-ก-4367)
25 / 07 / 2023

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

Request No : W6607350

Report No : 6607-2067

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant Sample No. : W 66071279
Sample Name : จุลระบายนอกจากถัง Final Check Basin (TK-601) Sampling Date : 12/07/2023
Sampling By : ETC Sampling Time : 10:00 AM
Sampling Method : Grab Received Date : 13/07/2023
Tested Date : 13/07/2023 – 22/07/2023 Reported Date : 22/07/2023

Parameter	Unit	Method	Result	Standard ¹
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	28	-
Formaldehyde	mg/L	Distillation,Colorimetric Method	0.07	≤ 1
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.1	≤ 10

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 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
4. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/L]
5. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
6. Sampling By Mr. Songpon Phiwuan (๖-003-๓-7279)
7. Sampling at UTM 47 P 731233 E 1404844 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

22 / 07 / 2023

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

TEST REPORT

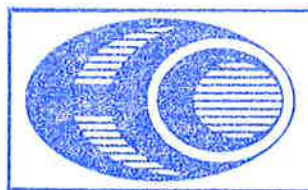
Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66080920
Sample Name : จุดระบายออกจากถัง Final Check Basin (TK-601)** Sampling Date : 09/08/2023**
Sampling By : ETC** Sampling Time : 9:20 AM**
Sampling Method : Grab** Received Date : 10/08/2023
Tested Date : 10/08/2023 – 28/08/2023 Reported Date : 28/08/2023

Parameter	Unit	Method	Result	Standard ¹⁾
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	60.3	≤ 500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	293	≤ 750
pH (on site) *		Electrometric Method	7.6	5.5-9.0
Temperature *	°C	Laboratory and Field Method	35	≤ 45
Total Dissolved Solids #	mg/L	Dried at 180 °C (SM:2540C)	636	≤ 3000
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	65	≤ 100
Total Suspended Solids #	mg/L	Dried at 103-105 °C (SM:2540 D)	31	≤ 200

Physical Appearance : 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 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)
2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ท-0017)*
5. ** = These data are non laboratory data. / Sampling at UTM 47 P 731233 E 1404844 N

Examined By.....
(Miss Apiradee Chuen-arom)
(จ-003-ท-0007)
28 / 08 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(Miss Nunnaphat Bakhuntod)
(จ-003-ท-0005)
28 / 08 / 2023

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

Request No : W6608250

Report No : 6608-2330

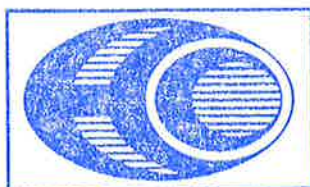
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุลระยะบายออกจากถัง Final Check Basin (TK-601)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 10/08/2023 – 28/08/2023
Sample No. : W 66080920
Sampling Date : 09/08/2023
Sampling Time : 9:20 AM
Received Date : 10/08/2023
Reported Date : 28/08/2023

Parameter	Unit	Method	Result	Standard ¹
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	64	-
Formaldehyde	mg/L	Distillation,Colorimetric Method	0.03	≤ 1
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	1.7	≤ 10

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 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
4. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/L]
5. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
6. Sampling By Mr. Parkpoom Buasawad
7. Sampling at UTM 47 P 731233 E 1404844 N



Examined By.....

(Miss Apiradee Chuen-arom)

28 / 08 / 2023

บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด
REPORTED TESTS REFER TO SUBMITTED SAMPLES ONLY

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


TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66091372
Sample Name : จุลวิเคราะห์ออกจากถัง Final Check Basin (TK-601)** Sampling Date : 13/09/2023**
Sampling By : ETC** Sampling Time : 9:40 AM**
Sampling Method : Grab** Received Date : 14/09/2023
Tested Date : 14/09/2023 – 21/09/2023 Reported Date : 26/09/2023

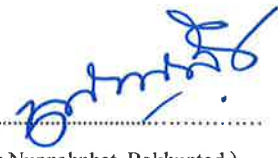
Parameter	Unit	Method	Result	Standard ¹⁾
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	41.4	≤ 500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	128	≤ 750
pH (on site) *		Electrometric Method	7.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	35	≤ 45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	478	≤ 3000
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	31	≤ 100
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	17	≤ 200

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 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)
2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Parkpoom Buasawad (จ-003-ก-0017)*
5. ** = These data are non laboratory data. / Sampling at UTM 47 P 731233 E 1404844 N

Examined By 
(Miss Apiradee Chuen-arom)
(จ-003-ก-0007)
26 / 09 / 2023



Approved By 
(Miss Nunnaphat Bakhuntod)
(จ-003-ก-0005)
26 / 09 / 2023

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



Request No : W6609365

Report No : 6609-2181

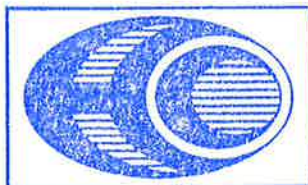
TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
 Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 Sampling Source : EA Plant Sample No. : W 66091372
 Sample Name : จุดระบายออกจากถัง Final Check Basin (TK-601) Sampling Date : 13/09/2023
 Sampling By : ETC Sampling Time : 9:40 AM
 Sampling Method : Grab Received Date : 14/09/2023
 Tested Date : 14/09/2023 – 21/09/2023 Reported Date : 26/09/2023

Parameter	Unit	Method	Result	Standard ¹⁾
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	23	
Formaldehyde	mg/L	Distillation,Colorimetric Method	0.01	≤ 1
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	1.9	≤ 10

Physical Appearance : 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 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)
 2. Parameter Outside The Scope of The Registration of Department of Industrial Works
 3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
 4. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/L]
 5. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
 6. Sampling By Mr. Parkpoom Buasawad
 7. Sampling at UTM 47 P 731233 E 1404844 N



Examined By.....

(Miss Apiradee Chuen-arom)

26 / 09 / 2023

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

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66101113
Sample Name : จุลินทรีย์บำบัดน้ำเสีย Final Check Basin (TK-601)** Sampling Date : 11/10/2023**
Sampling By : ETC** Sampling Time : 10:25 AM**
Sampling Method : Grab** Received Date : 12/10/2023
Tested Date : 12/10/2023 – 20/10/2023 Reported Date : 20/10/2023

Parameter	Unit	Method	Result	Standard ¹⁾
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	33.9	≤ 500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	105	≤ 750
pH (on site) *		Electrometric Method	7.0	5.5-9.0
Temperature *	°C	Laboratory and Field Method	36	≤ 45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	676	≤ 3000
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	20	≤ 100
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	19	≤ 200

Physical Appearance : 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 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)
2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Miss Jiraporn Pankong is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
4. * = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (จ-003-ท-0016)*
5. ** = These data are non laboratory data. / Sampling at UTM 47 P 731233 E 1404844 N

Examined By.....

(Miss Jiraporn Pankong)

(จ-003-ท-0009)

20 / 10 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....

(Miss Nunnaphat Bakhuntod)

(จ-003-ท-0005)

20 / 10 / 2023

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

Request No : W6610307

Report No : 6610-2102

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุติระบายออกจากถัง Final Check Basin (TK-601)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 12/10/2023 – 20/10/2023
Sample No. : W 66101113
Sampling Date : 11/10/2023
Sampling Time : 10:25 AM
Received Date : 12/10/2023
Reported Date : 20/10/2023

Parameter	Unit	Method	Result	Standard ¹⁾
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	17	-
Formaldehyde	mg/L	Distillation,Colorimetric Method	0.06	≤ 1
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	1.5	≤ 10

Physical Appearance : 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 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
4. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/L]
5. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
6. Sampling By Mr. Songpon Phiwuan
7. Sampling at UTM 47 P 731233 E 1404844 N



Examined By.....

(Miss Jiraporn Pankong)

20 / 10 / 2023

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

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16**
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150**
Sampling Source : EA Plant** Sample No. : W 66111412
Sample Name : จุติระบายนออกจากถัง Final Check Basin (TK-601)** Sampling Date : 15/11/2023**
Sampling By : ETC** Sampling Time : 9:54 AM**
Sampling Method : Grab** Received Date : 16/11/2023
Tested Date : 16/11/2023 – 22/11/2023 Reported Date : 22/11/2023

Parameter	Unit	Method	Result	Standard ¹
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	139	≤ 500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	372	≤ 750
pH (on site) *		Electrometric Method	6.1	5.5-9.0
Temperature *	°C	Laboratory and Field Method	36	≤ 45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	656	≤ 3000
Total Kjeldahl Nitrogen *	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	87	≤ 100
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	42	≤ 200

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 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)
2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.
4. * = Test Report/Sampling marked Not Accredited, Sampling By Miss Pompinan Viriyakusolkul (จ-003-ค-0036)*
5. ** = These data are non laboratory data. / Sampling at UTM 47 P 731233 E 1404844 N

Examined By.....
(Miss Apiradee Chuen-arom)
(จ-003-ค-0007)
22 / 11 / 2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By.....
(Miss Nunnaphat Bakhuntod)
(จ-003-ค-0005)
22 / 11 / 2023

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

Request No : W6611413

Report No : 6611-2154

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุลินทรีย์ออกจากถัง Final Check Basin (TK-601)
Sampling By : ETC
Sampling Method : Grab
Tested Date : 16/11/2023 – 22/11/2023
Sample No. : W 66111412
Sampling Date : 15/11/2023
Sampling Time : 9:54 AM
Received Date : 16/11/2023
Reported Date : 22/11/2023

Parameter	Unit	Method	Result	Standard ¹
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH3 B,4500 -NH3 C)	96	-
Formaldehyde	mg/L	Distillation,Colorimetric Method	0.24	≤ 1
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	0.9	≤ 10

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 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)
2. Parameter Outside The Scope of The Registration of Department of Industrial Works
3. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
4. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/L]
5. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
6. Sampling By Miss Pornpinan Viriyakusolkul
7. Sampling at UTM 47 P 73 1233 E 1404844 N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By.....

(Miss Apiradee Chuen-arom)

22 / 11 / 2023

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

Request No : W6612527

Report No : 6701-0009

TEST REPORT

Customer : PTT Global Chemical Public Company Limited Branch 16
Address : 9-9/1 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
Sampling Source : EA Plant
Sample Name : จุลระยะบายออกจากถัง Final Check Basin (TK-601)
Sampling By : Customer
Sampling Method : Grab
Tested Date : 21/12/2023 – 28/12/2023
Sample No. : W 66121666
Sampling Date : 20/12/2023
Sampling Time : 10:15 AM
Received Date : 21/12/2023
Reported Date : 03/01/2024

Parameter	Unit	Method	Result	Standard ¹
Ammonia	mg/L as NH ₃	Distillation and Titrimetric Method (SM:4500 -NH ₃ B,4500 -NH ₃ C)	32	-
Biochemical Oxygen Demand	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	67.8	≤ 500
Chemical Oxygen Demand	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	166	≤ 750
Formaldehyde	mg/L	Distillation, Colorimetric Method	0.03	≤ 1
Oil and Grease	mg/L	Partition-Gravimetric Method (SM:5520B)	1.8	≤ 10
pH (on site)		Electrometric Method	7.0	5.5-9.0
Temperature	°C	Laboratory and Field Method	33	≤ 45
Total Dissolved Solids	mg/L	Dried at 180 degree celsius (SM:2540 D)	474	≤ 3000
Total Kjeldahl Nitrogen	mg/L as NH ₃ -N	Macro Kjeldahl Method (SM:4500-Norg B)	38	≤ 100
Total Suspended Solids	mg/L	Dried at 103-105 degree celsius (SM:2540 D)	12	≤ 200

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 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)
2. SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017
3. MDL = Method Detection Limit [MDL of Formaldehyde = 0.20 mg/L]
4. LOQ = Level of Quantitation [LOQ of Oil and Grease = 3.0 mg/L]
5. Sampling at UTM 47 P 731233 E 1404844 N



Examined By.....

(Miss Apiradee Chuen-arom)

03 / 01 / 2024

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

Request No. ATR6608038

Report No. 6608-0588

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch16
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 SAMPLE SOURCE : EA Plant
 SAMPLE NAME : บริเวณ Ammonia Vent Scrubber (Area) (A2014) ด้านบน
 SAMPLING DATE : 25/08/2023 SAMPLE NO. : A66080588
 RECEIVED DATE : 28/08/2023 SAMPLING TIME : 07:44-19:44
 SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 28/08/2023-29/08/2023
 Serial No. 218411 REPORTED DATE : 14/09/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Ammonia	Ion Chromatography Method(NIOSH6016)	< 0.200	35	mg/m ³
		< 0.280	50	ppm

REMARK:^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.

* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and No.0202-03-2564-0005.

(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47 P 731262E 1404912N

Examined By

(Miss Thanaporn Klinsopon)

14/09/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

14/09/2023

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

Request No. ATR6611009

Report No. 6611-0063

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch16
ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map
Ta Phut, Amphur Muang Rayong, Rayong 21150
SAMPLE SOURCE : EA Plant
SAMPLE NAME : บริเวณ Ammonia Vent Scrubber (Area) (A2014) ด้านบน
SAMPLING DATE : 02/11/2023 SAMPLE NO. : A66110063
RECEIVED DATE : 06/11/2023 SAMPLING TIME : 07:00-19:00
SAMPLING INSTRUMENT : Personal Pump Flow rate 0.10 L/min TESTED DATE : 06/11/2023-08/11/2023
Serial No. 218383 REPORTED DATE : 21/11/2023

PARAMETER*	TEST METHOD	RESULT	STD ^{/1}	UNIT
Ammonia	Ion Chromatography Method(NIOSH6016)	< 0.200	35	mg/m ³
		< 0.280	50	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017), Concentration Limits of Hazardous Chemicals.* Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008 and
No.0202-03-2564-0005.

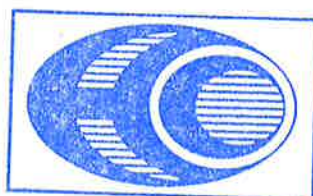
(Sampling By Mr. Suttha Songthaninai)

GPS = Sampling at UTM 47 P 731262E 1404912N

Examined By

(Miss Thanatporn Klinsoopon)

21/11/2023



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Approved By

(Mr. Kawee Suthasub)

21/11/2023

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

Request No. ATR6608038

Report No. 6608-0589

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch16

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต (Area) (P2054) SAMPLE NO : A66080589

SAMPLING DATE : 25/08/2023 SAMPLING TIME : 08:35-20:35

RECEIVED DATE : 28/08/2023 TESTED DATE : 28/08/2023-13/09/2023

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 14/09/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m ³
		ND	1.0	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),
Concentration Limits of Hazardous Chemicals.

^{/2} ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m³ or 0.03 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)
Analysed By SECOT Co.,Ltd. / GPS = Sampling at UTM 47 P 731245E 1404907N



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

Examined By



(Miss Thanatporn Klinson)

14/09/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. ATR6611009

Report No. 6611-0064

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch16

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road, Tambon Map Ta Phut,
Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE NAME : พื้นที่กระบวนการผลิต (Area) (P2054) SAMPLE NO : A66110064

SAMPLING DATE : 02/11/2023 SAMPLING TIME : 07:00-19:00

RECEIVED DATE : 06/11/2023 TESTED DATE : 06/11/2023-20/11/2023

SAMPLING INSTRUMENT : Passive Sampling REPORTED DATE : 21/11/2023

PARAMETER**	TEST METHOD	RESULT ^{/2}	STD ^{/1}	UNIT
Ethylene Oxide	OSHA 1010	ND	1.8	mg/m ³
		ND	1.0	ppm

REMARK:

^{/1} Notification of The Department of Labour Protection and Welfare B.E.2560 (2017),
Concentration Limits of Hazardous Chemicals.

^{/2} ND = Non detectable : detection limit of Ethylene Oxide is 0.05 mg/m³ or 0.03 ppm.

** Parameter have License Registration of Department of Labour Protection and Welfare No.0201-03-2564-0008
Sampling By Eastern Thai Consulting 1992 Co.,Ltd., (Mr. Suttha Songthaninai)
Analysed By SECOT Co.,Ltd. / GPS = Sampling at UTM 47 P 731245E 1404907N



Examined By

(Miss Thanatporn Klinsoapon)

21/11/2022

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY

Request No. LA66-R0863

Report No. R6608-5554

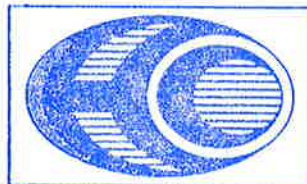
TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16
 ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
 Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150
 SAMPLE SOURCE : EA Plant
 SAMPLE POINT : กระบวนการผลิต (P2051A)
 PARAMETER* : L_{eq} 1 hr., L_{eq} 8 hr. & L_{max} SAMPLE NO. : 26722
 DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 25/08/2023
 INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 25/08/2023
 S/N 00322755 : Class 2 REPORTED DATE : 29/08/2023

MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
08:45-09:45	83.9	84.5	dB(A)
09:45-10:45	83.9	84.5	dB(A)
10:45-11:45	83.8	84.5	dB(A)
11:45-12:45	84.0	84.6	dB(A)
12:45-13:45	84.2	85.0	dB(A)
13:45-14:45	84.2	85.0	dB(A)
14:45-15:45	84.0	84.5	dB(A)
15:45-16:45	84.2	84.7	dB(A)
L_{eq} 8 hr.	84.0	—	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)

29/08/2023

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

Request No. LA66-R1109

Report No. R6611-0158

TEST REPORT

CUSTOMER : PTT Global Chemical Public Company Limited Branch 16

ADDRESS : 9 Soi G-12, WHA Eastern Industrial Estate (Map Ta Phut), Pakorn Songkhraorat Road,
Tambon Map Ta Phut, Amphur Muang Rayong, Rayong 21150

SAMPLE SOURCE : EA Plant

SAMPLE POINT : กระบวนการผลิต (P2051A)

PARAMETER* : L_{eq} 1 hr., L_{eq} 8 hr. & L_{max} SAMPLE NO. : 32359

DETERMINATION METHOD : ISO 11202:2010 MEASURING DATE : 02/11/2023

INSTRUMENT : Integrated Sound Level Meter RECEIVED DATE : 02/11/2023

S/N 00222593 : Class 2 REPORTED DATE : 07/11/2023

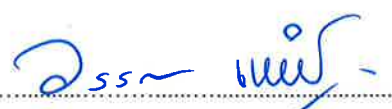
MEASURING TIME	RESULT		UNIT
	L_{eq} 1 hr.	L_{max}	
08:00-09:00	84.2	85.0	dB(A)
09:00-10:00	84.3	85.1	dB(A)
10:00-11:00	84.2	85.2	dB(A)
11:00-12:00	84.0	84.7	dB(A)
12:00-13:00	84.1	84.8	dB(A)
13:00-14:00	84.1	84.8	dB(A)
14:00-15:00	83.8	84.5	dB(A)
15:00-16:00	83.8	84.3	dB(A)
L_{eq} 8 hr.	84.1	—	dB(A)
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. Savita Kittinoavarat



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

 Approved By 
 (MRS. WANPEN LHAOCHINDAWAT)

07/11/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY

THIS REPORT SHALL NOT REPRODUCED EXCEPT IN FULL

WITHOUT THE WRITTEN APPROVAL LABORATORY